



March 15th, 2024

Pierre Adrien

District Manager, Ministry of the Environment, Conservation and Parks

733 Exeter Road

London, ON N6E 1L3

Dear Mr. Adrien,

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

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

- Environmental Compliance Approval 4845-ARSJ4R
- CLI-ECA Number: 055-W601

This report, as it pertains to the WWTF and the sanitary collection system has been prepared by the Ontario Clean Water Agency on behalf of the Township of Southwold, based on the information contained in our records. 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. Meghan Morgan, Water Inspector, Ministry of the Environment, Conservation and Parks
Lisa Higgs, CAO, Township of Southwold
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 Talbotville Wastewater Treatment Plant was commissioned in February, 2018. The wastewater treatment plant is a Membrane Bioreactor treatment plant which is a combination of activated sludge biological treatment with MicroClear MBR membrane filtration technology and Zeeweed membrane filtration technology. The process is as follows:

Raw Wastewater Collection

The Township of Southwold Waste Collection System is operated under CLI-ECA Number: 055-W601 issued January 11th, 2023.

The wastewater is collected by gravity and directed to the equalization tanks onsite at the treatment plant. The equalization tanks are equipped with three submersible pumps (one duty and two stand by) with rated capacity of 41.67m³/h. The pumps are controlled by the Milltronics ultrasonic level control system, with a backup float system.

Preliminary Treatment System

Equalized wastewater is pumped through one mechanically-cleaned fine screen with 1mm screen size. The fine screen to remove any fibers or debris that might damage the membranes. The screenings are collected in burlap sacks and disposed of.

Secondary Treatment System

Biological Treatment

The screened wastewater then flows by gravity to the first aeration tank (TNK- 501) which is hydraulically connected to the second aeration tank (TNK- 502) for aerobic biological degradation of the influent constituents (organics and ammonia). The two aeration tanks operate in series and are equipped with fine bubble aeration.

Secondary Sedimentation

Mixed liquor is pumped (by P- 501/ 2/ 3) from the second aeration tank (TNK- 502) to the membrane tanks (TNK-601 and TNK-602). The membrane tanks serve as additional volume for aerobic biological treatment and house the membrane filters used for solid -liquid separation. The two membrane tanks operate in parallel and are equipped with two membrane modules. Treated effluent is drawn through the membranes by vacuum pumps, and pumped through ultraviolet (UV) lamps for final disinfection. The solid liquid separation process causes an accumulation of solids in the membrane tank, excess of mixed liquor which contains both solids and filtrate, is continuously pumped from the aeration tank to the membrane tanks (TNK-601 and TNK-602). The additional mixed liquor then overflows from the membrane tanks into the return activated sludge tank (TNK-611). From there the RAS is pumped back to the aeration (TNK- 501).

pH Adjustment System

Within the aeration tanks, the nitrification process converts ammonia to nitrate in order to meet the effluent ammonia limit. Through this process the alkalinity is consumed, where Caustic is pumped to control the pH. Liquid alum is then dosed into the aeration tanks to precipitate phosphorus to meet the effluent phosphorus limit.

Disinfection

Treated effluent is drawn through the membranes by vacuum pumps, and pumped through ultraviolet (UV) lamps for final disinfection. There are four UV lights operating in parallel.

Sludge Management System

In order to retain an optimal concentration of mixed liquor suspended solids (10g/ L), a portion of the mixed liquor is intermittently wasted (P- 903) from the aeration tank (TNK- 502) to the sludge press (SP- 901) for dewatering. There excess supernatant from the dewatering process is collected in the discharge tank (TNK- 902) and pumped back (P- 901/2) to the first aeration tank (TNK- 501). It is currently not in use due to low flows.

Standby Power

The wastewater treatment plant has a 250kW standby diesel generator onsite.

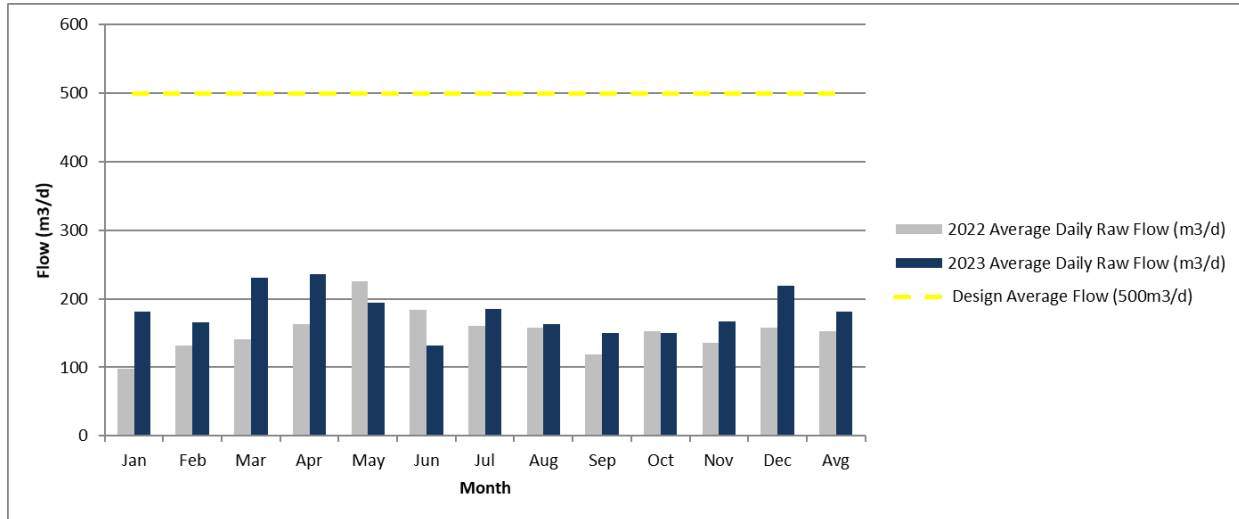
Section 2: Summary of Monitoring Data

The Talbotville Wastewater Treatment Plant is monitored as per the Environmental Compliance Approval requirements. The Sanitary Collection system is monitored as per CLI-ECA Number: 055-W601. There is no monitoring data captured at the sewage pumping stations to be discussed in accordance with Schedule E, condition 4.6.3. At this time, there is no need for future modifications to the sewage pumping stations. Detailed monitoring data is supplied in Appendix A.

Raw Wastewater Monitoring

The average daily flow for raw wastewater entering the WWTP in 2023 was 181.3m³/d. This is an increase of 19.0% when compared to the average daily flow in 2022. The rated capacity identified in the ECA is 500m³/d. As depicted in Chart 1, the average daily flow is at 36.2 % of the rated capacity. The increase in flows is due to an increase in service connections and significant infiltration events that occurred during the reporting year. In 2021, ball valves and check valves at the headworks were upgraded and a flow control valve was installed to better control the flow of raw wastewater to the treatment plant. In 2023, OCWA has continued maintenance/cleaning activities on the drum and screening brushes to mitigate recirculation situations.

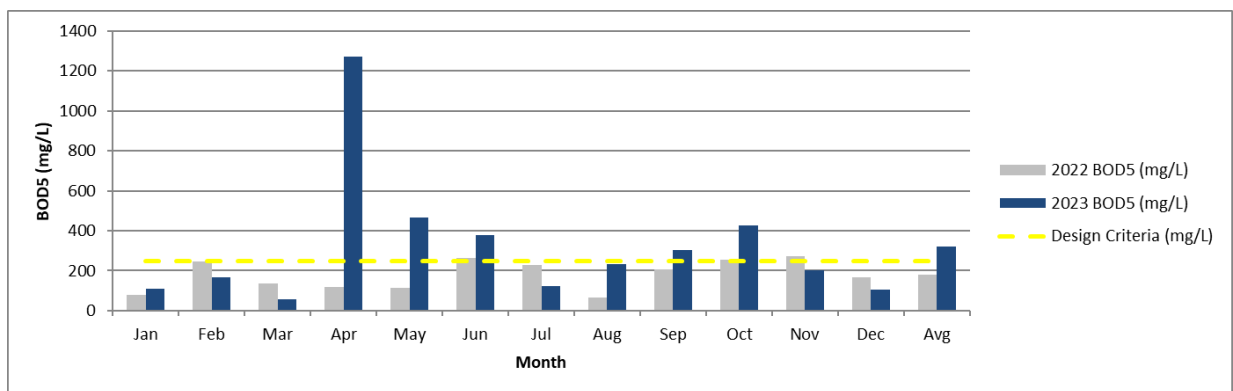
Chart 1. Average daily influent flows rated capacity.



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 A for more detailed monthly results and design parameters.

The annual average for raw sewage BOD₅ concentration to the plant was 319.5mg/L. Refer to Chart 2 for the monthly results in 2023. The annual average for BOD₅ has increased by 78.7% when compared to the annual average in 2022. There were five monthly average results in 2023 that were above the design criteria. The average BOD₅ loading to the plant was 57.9kg/d for 2023.

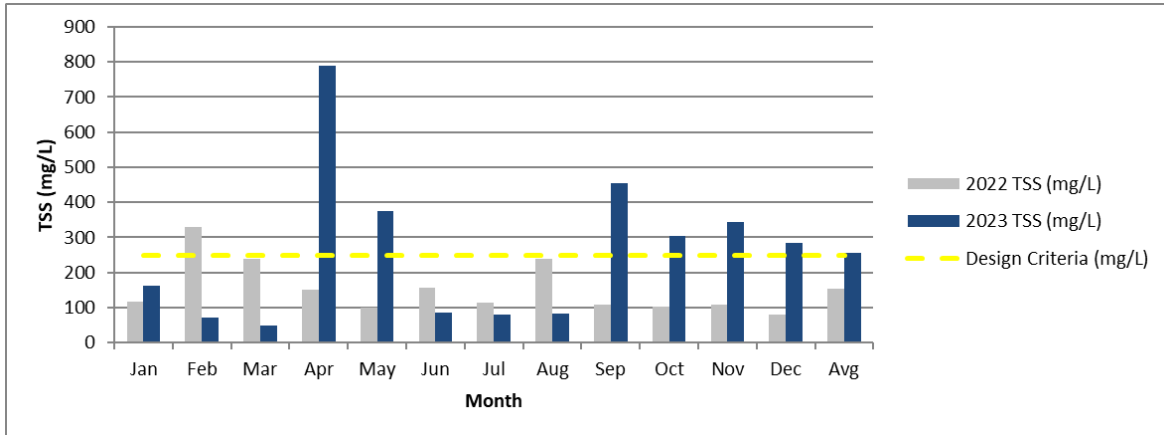
Chart 2. Raw sewage monthly average concentration of BOD₅.



The annual average for raw sewage total suspended solids (TSS) concentration to the plant was 256.9mg/L. Refer to Chart 3 for the monthly concentrations in 2023. The annual average for TSS has

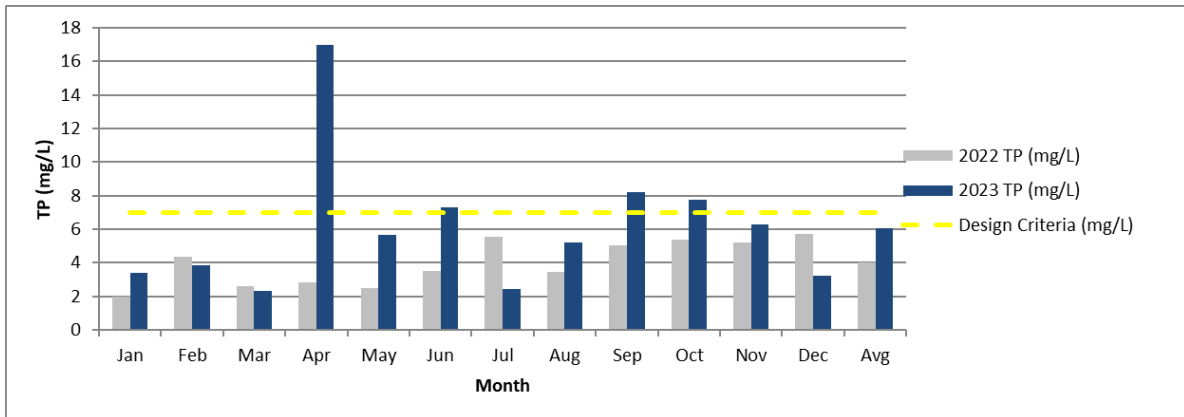
increased by 67.3% when compared to the annual average in 2022. There were six monthly average results above the design criteria in 2023. The average TSS loading to the plant was 46.6kg/d for 2023.

Chart 3. Raw sewage average monthly concentration of TSS.



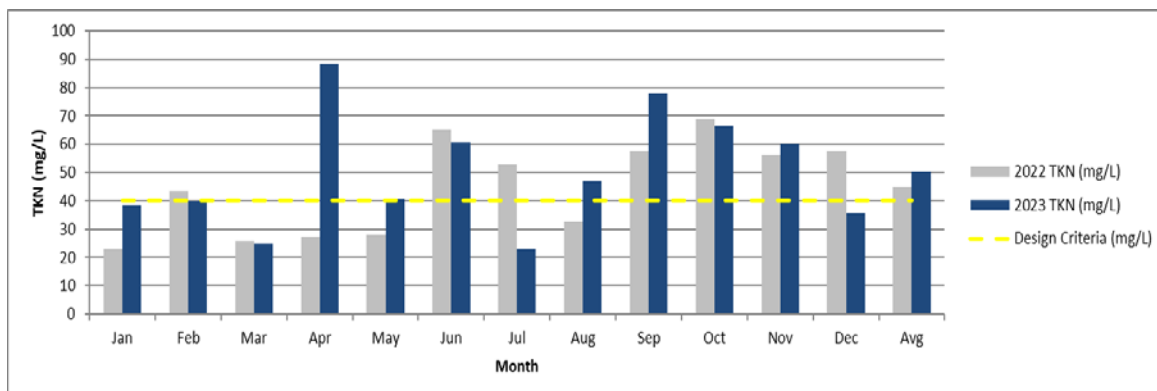
The annual average for raw sewage total phosphorus (TP) concentration to the plant was 6.05mg/L. Refer to Chart 4 for the monthly concentrations in 2023. The annual average for TP has increased by 51.2% when compared to the annual average in 2022. There were four monthly average results above the design criteria in 2023. The average TP loading to the plant was 1.10kg/d for 2023.

Chart 4. Raw sewage average monthly concentration of TP.



The annual average for raw sewage total Kjeldahl nitrogen (TKN) concentration to the plant was 50.2mg/L. Refer to Chart 5 for the monthly concentrations in 2023. The annual average for TKN has increased by 11.8% when compared to the annual average in 2022. There were seven monthly average results above the design criteria in 2023. The average TKN loading to the plant was 9.1kg/d for 2023.

Chart 5. Raw sewage average monthly concentration of TKN.



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 with a grab sample taken weekly and tested for E. coli, pH and temperature. Detailed results can be found in Appendix A. Table 1 below shows the monthly average effluent result ranges and loadings. Section 3 describes the results in more detail.

Table 1. Monthly average effluent ranges for 2023.

| Parameter | Effluent Monthly Average Limits | Monthly Average Effluent Result Ranges | Monthly Average Loadings Result Ranges (kg/d) |
|--------------------------|---------------------------------|--|---|
| cBOD ₅ (mg/L) | 10 | 2 – 3 | 0.38 – 0.57 |
| TSS (mg/L) | 10 | 2 – 3.25 | 0.28 – 0.66 |
| TP (mg/L) | 0.3 | 0.07 – 0.22 | 0.010 -0.046 |
| TAN (mg/L) | 1.5 | 0.10 – 0.16 | 0.014 – 0.026 |
| TAN (mg/L) Freezing | 4 | 0.10 – 0.13 | 0.021 – 0.027 |
| E. coli (cfu/100mL)* | 100 | 1 – 5.45 | n/a |
| pH** | 6 – 9.5 | 6.40 - 8.70 | n/a |
| Temperature (°C)** | n/a | 6.1 – 22.5 | n/a |

*expressed as geometric mean

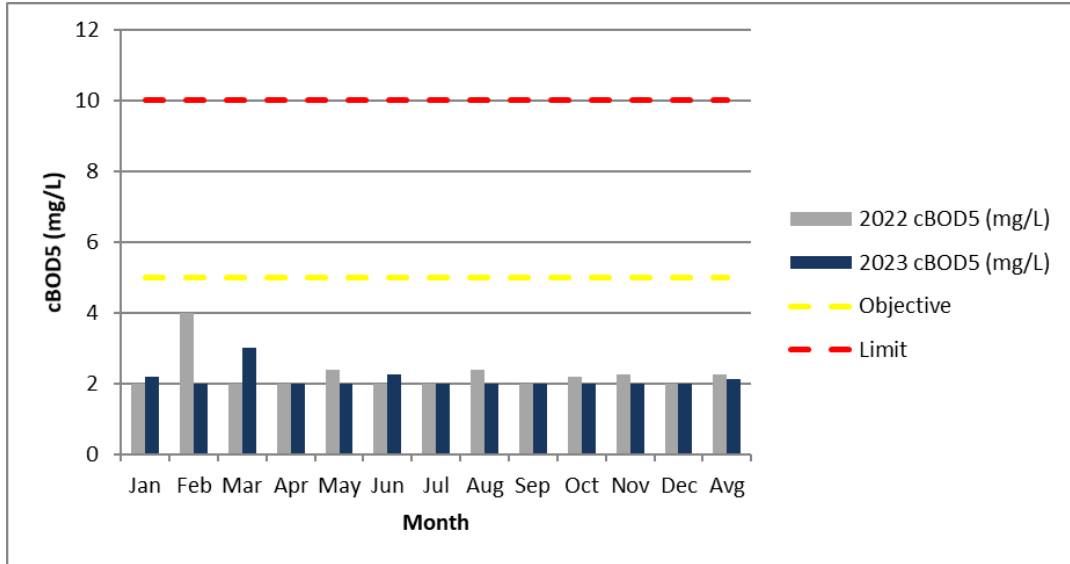
**minimum and maximum result (not monthly averages)

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

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

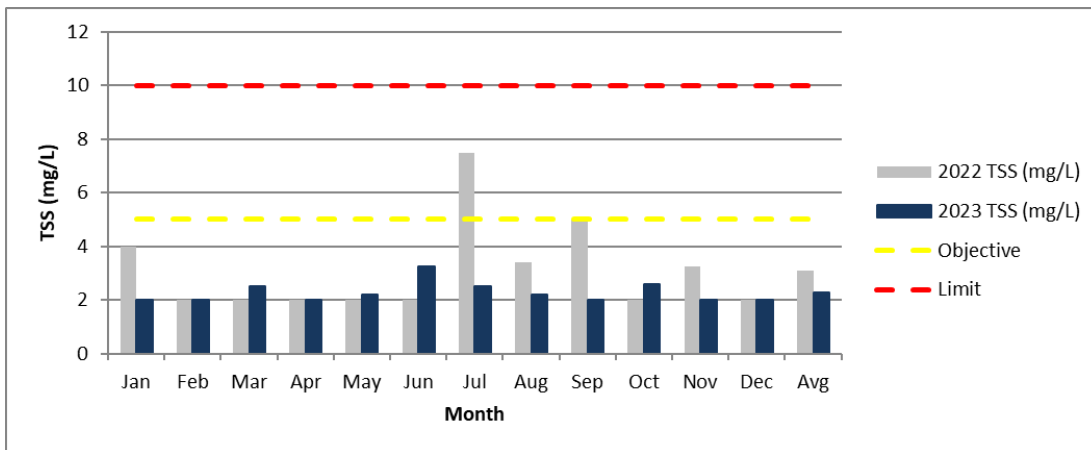
The annual average for effluent cBOD₅ in 2023 was 2.12mg/L. The annual average effluent cBOD₅ is down 6.6% when compared to 2022. The annual loading of cBOD₅ was 0.40kg/d. The cBOD₅ limit is 10mg/L. There were no objective or limit exceedances reported in 2023. Refer to Chart 6.

Chart 6. The effluent monthly average concentration of cBOD₅.



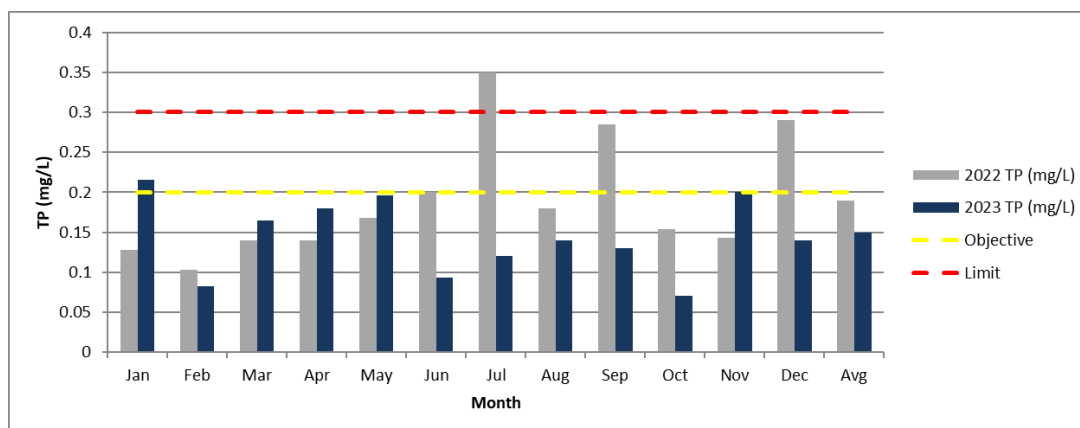
The annual average for effluent TSS in 2023 was 2.27mg/L. The annual average effluent TSS is down 26.6% when compared to 2022. The annual loading of TSS was 0.43kg/d. There were no objective or limit exceedances reported in 2023. Refer to Chart 7.

Chart 7. The effluent monthly average concentration of TSS.



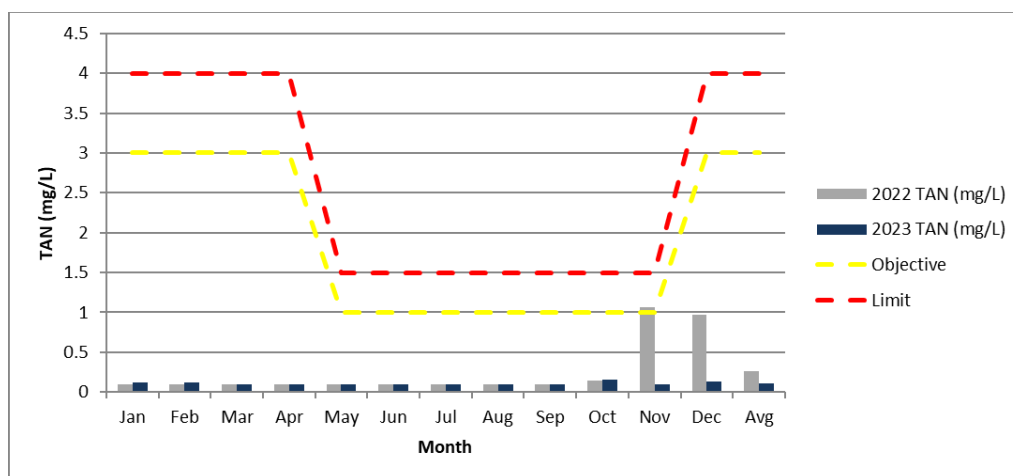
The annual average for effluent TP in 2023 was 0.15mg/L. The annual average effluent TP has decreased 21.1% when compared to 2022. The annual loading of TP was 0.028kg/d. There was one objective exceedance reported in 2023. The objective exceedance was a result of alum optimization efforts. Refer to Chart 8.

Chart 8. The effluent monthly average concentration of TP.



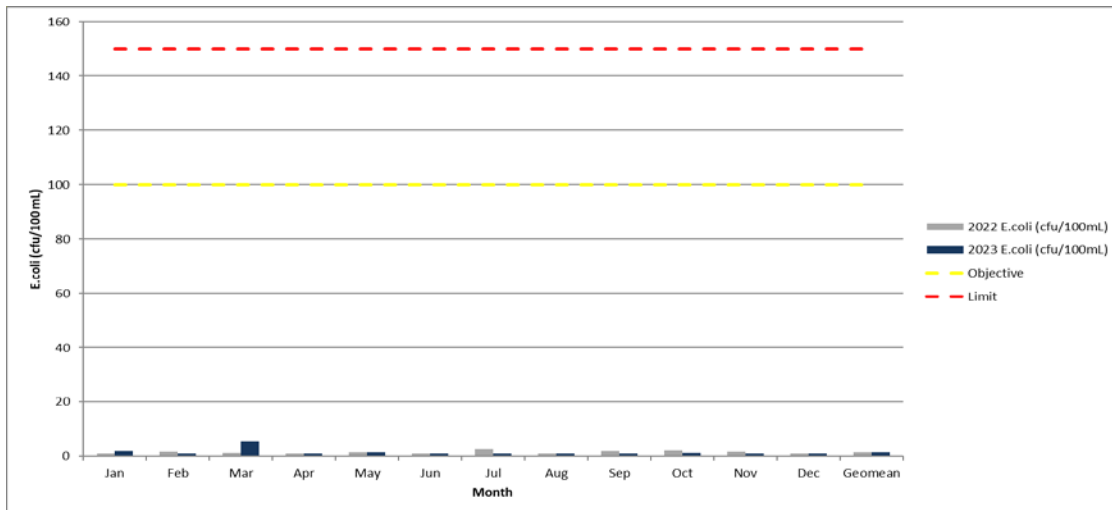
The annual average for effluent Total Ammonia Nitrogen (TAN) in 2023 was 0.11mg/L. This is a decrease of 56.6% when compared to 2022. The annual loading of TAN was 0.021kg/d. The limits and objectives for TAN vary based on the freezing period, which is between December 1st and April 30th. There were no objective or limit exceedances reported in 2023. Refer to Chart 9.

Chart 9. The effluent monthly average concentration of TAN.



The annual geometric mean for effluent E. coli in 2023 was 1.35cfu/100mL. The annual average effluent E. coli is down 3.3% when compared to 2022. There were no objective or limit exceedances reported in 2023. Refer to Chart 10 for the monthly geometric mean concentration of E.coli for 2023.

Chart 10. The effluent monthly geometric mean concentration of E. coli.



The Talbotville WWTP performed well in 2023 producing quality effluent. There were no effluent limit exceedances reported to the MECP in 2023.

There was one objective exceedance reported in 2023, refer to Table 4 for a summary compared against the effluent results. In 2023, OCWA worked closely with Newterra to conduct maintenance and cleaning of the membranes in an effort to ensure the filters continue to operate efficiently. These efforts along with alum dosing adjustments have ensured that objective and limit concentrations are being met.

Table 4. Objective exceedances in 2023.

| Date | Parameter | Concentration | Reason |
|---------|-----------|---------------|--------------------------|
| January | TP | 0.22 | Alum dosage optimization |

Section 4: Operating Problems and Corrective Actions

The Talbotville WWTP produced quality effluent in 2023. OCWA continues to work with Newterra to optimize the treatment process and offer assistance in troubleshooting. In 2023, there has continued to be an increase in the amount of flushable wipes entering into the collection system. In an effort to minimize the number of wipes entering the system, removable nets were installed in two of the manholes before entering the sewage plant. These nets are hopefully a temporary measure to capture the wipes. The nets are being replaced weekly or on an as-needed basis. The increase in wipes are causing issues by clogging up the system and increasing the frequency of maintenance of the preliminary screening brushes. There continues to be performance issues with the drum and screening

brushes. Increased frequency of cleaning and brush replacement took place in 2023 and will continue into 2024.

Membrane performance was reduced in 2023 with elevated raw flow due to heavy rainfall and infiltration to the collection system. Haulage of raw sewage off site was required to keep up with flow and maintain plant performance on multiple occasions.

Section 5: Maintenance Activities

Routine maintenance activities are completed through OCWA's Workplace Management System (WMS). Attached as Appendix C is the routine maintenance that was completed at the facility in 2023.

Emergency and preventative maintenance completed in 2023 was as follows:

- Pump rails replace on EQ pump 302 and 303
- Air pressure valve on pump 701 replaced
- Replaced bearings in blower 201
- Replaced level transmitter in tank 301
- Pump 303 sent out to be repaired
- GFI on outside auto sampler replaced
- Replaced brushes on primary screener
- Replaced UV quartz sleeves
- Repaired sink room door/lock
- Replaced HMI module
- Raw EQ 301 transducer replaced
- Replaced wet end valves on Alum pump and caustic pump
- Train#1 membranes replaced with Zeeweed membranes

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 chemical dosages. 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 Activities

The flowmeter was verified on April 4th, 2023. In-house meters for pH are calibrated by OCWA operators as per manufacturer's instructions.

Section 8: Sludge Handling and Generated

Mixed liquors can be wasted from the second aeration tank to the sludge press for dewatering. Excess water from the dewatering process can be collected in the discharge tank and pumped back to the first

aeration tank. The sludge press has been in place since the commissioning of the plant but was not in use due to the volume of incoming flows. The sludge press is now operational and was commissioned in January/February of 2024.

In 2023, one load or 13m³ of MLSS was removed from the MBR and taken to Thorndale WWTP for seeding. There were also two loads or 26m³ of MLSS removed and taken to Dorchester WWTP for seeding.

In 2023, high flows due to infiltration in the collection system, forced operations to haul raw sewage to avoid any overflows/spills. During the reporting period, there was 1000m³ of raw sewage removed from the EQ tank and hauled to Dingman Drive Pumping station in the City of London.

In 2023, there was 1200m³ of sludge removed by Sanitary Sewer and brought to the Dingman Drive Pumping Station in the City of London. It is anticipated that in 2024 that the total sludge produced will be less than 2023 volumes due to the sludge press being operational. It is estimated that approximately 650m³ of sludge will be produced. This is determined based on MLSS concentrations within the aeration tank. This estimated volume is also dependent on the influent flows and total suspended solids concentrations. Annual sludge monitoring results are found in Appendix D.

Section 9: Complaints

There were no community complaints received for the Talbotville WWTP and Sanitary Collection System in 2023.

Section 10: By-passes, Overflows, Spills or Abnormal Discharge Events

On September 4th 2023, raw sewage was spilled from a manhole in the driveway of the Talbotville WWTP due to a PLC failure (SAC# 1-3SX POT). Approximately 2m³ of raw sewage was spilled onto the driveway. A sample of the sewage was collected and analyzed as per the ECA. The spill was cleaned up by Hurricane Hydrovac.

There have been no bypasses or overflows in the collection system.

Section 11: Notice of Modifications to Sewage Works:

On August 8th, 2023 a Notice of Modifications to Sewage Works was submitted in accordance with Condition 10.d for the replacement of MBR#1 membrane cassettes with ZeeWeed hollow fiber membranes. In October 2023, this replacement took place. The new membranes have been operating very well since installation.

APPENDIX A

1536 TALBOTVILLE WASTEWATER TREATMENT FACILITY 120003913

| | 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 | 5,617.80 | 4,654.70 | 7,156.60 | 7,068.40 | 6,014.20 | 3,939.90 | 5,735.20 | 5,059.73 | 4,482.79 | 4,644.25 | 5,010.70 | 6,801.30 | 66,185.57 | | | 0.00 |
| Raw Flow: Avg - Raw m ³ /d | 181.22 | 166.24 | 230.86 | 235.61 | 194.01 | 131.33 | 185.01 | 163.22 | 149.43 | 149.81 | 167.02 | 219.40 | | 181.33 | | 500.00 |
| Raw Flow: Max - Raw m ³ /d | 270.00 | 291.80 | 360.00 | 399.00 | 242.00 | 150.50 | 251.80 | 188.30 | 176.00 | 191.70 | 202.70 | 333.00 | | | 399.00 | 0.00 |
| Raw Flow: Count - Raw 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 |
| Eff. Flow: Total - Eff m ³ /d | 5,395.60 | 5,377.30 | 8,169.30 | 7,683.30 | 6,402.60 | 4,122.90 | 6,418.90 | 5,558.80 | 4,217.91 | 4,509.05 | 4,769.70 | 6,674.95 | 69,300.31 | | | 0.00 |
| Eff. Flow: Avg - Eff m ³ /d | 174.05 | 192.05 | 263.53 | 256.11 | 206.54 | 137.43 | 207.06 | 179.32 | 140.60 | 145.45 | 158.99 | 215.32 | | 189.66 | | 500.00 |
| Eff. Flow: Max - Eff m ³ /d | 213.40 | 350.00 | 320.80 | 430.40 | 266.10 | 161.60 | 292.30 | 205.50 | 159.00 | 177.10 | 195.70 | 324.00 | | | 430.40 | 0.00 |
| Eff Flow: Count - Eff 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 - Eff mg/L | < 2.20 | < 2.00 | < 3.00 | < 2.00 | < 2.00 | < 2.25 | < 2.00 | < 2.00 | < 2.00 | < 2.00 | < 2.00 | < 2.00 | | < 2.12 | < 3.00 | 10.00 |
| Eff: # of samples of cBOD5 - Eff | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 52.00 | | | 0.00 |
| Loading: cBOD5 - Eff kg/d | 0.383 | 0.384 | 0.791 | 0.512 | 0.413 | 0.309 | 0.414 | 0.359 | 0.281 | 0.291 | 0.318 | 0.431 | | 0.407 | | |
| Biochemical Oxygen Demand: BOD5 | | | | | | | | | | | | | | | | |
| Raw: Avg BOD5 - Raw mg/L | 109.00 | 165.00 | 56.00 | 1,270.00 | 467.00 | 379.00 | 121.00 | 232.00 | 303.50 | 426.00 | 201.00 | 105.00 | | 319.54 | 1,270.00 | 0.00 |
| Raw: # of samples of BOD5 - Raw | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 | 13.00 | | | 0.00 |
| Percent Removal: BOD5 - Raw % | 97.98 | 98.79 | 94.64 | 99.84 | 99.57 | 99.41 | 98.35 | 99.14 | 99.34 | 99.53 | 99.00 | 98.70 | | 98.64 | 99.84 | 0.00 |
| Total Suspended Solids: TSS | | | | | | | | | | | | | | | | |
| Raw: Avg TSS - Raw mg/L | 162.00 | 71.00 | 48.00 | 788.00 | 376.00 | 86.00 | 81.00 | 83.00 | 455.50 | 303.00 | 344.00 | 285.00 | | 256.88 | 788.00 | 0.00 |
| Eff: Avg TSS - Eff mg/L | < 2.00 | < 2.00 | < 2.50 | < 2.00 | < 2.20 | < 3.25 | < 2.50 | < 2.20 | < 2.00 | < 2.60 | < 2.00 | < 2.00 | | < 2.27 | < 3.25 | 10.00 |
| Eff: # of samples of TSS - Eff | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 52.00 | | | 0.00 |
| Loading: TSS - Eff kg/d | < 0.348 | < 0.384 | < 0.659 | < 0.512 | < 0.454 | < 0.447 | < 0.518 | < 0.394 | < 0.281 | < 0.378 | < 0.318 | < 0.431 | | < 0.43 | < 0.66 | |
| Percent Removal: TSS - Raw % | 98.77 | 97.18 | 94.79 | 99.75 | 99.41 | 96.22 | 96.91 | 97.35 | 99.56 | 99.14 | 99.42 | 99.30 | | 98.15 | 99.75 | 0.00 |
| Total Phosphorus: TP | | | | | | | | | | | | | | | | |
| Raw: Avg TP - Raw mg/L | 3.40 | 3.87 | 2.33 | 17.00 | 5.66 | 7.28 | 2.41 | 5.23 | 8.21 | 7.73 | 6.30 | 3.22 | | 6.05 | 17.00 | 0.00 |
| Raw: # of samples of TP - Raw | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 | 13.00 | | | 0.00 |
| Eff: Avg TP - Eff mg/L | 0.22 | 0.08 | 0.17 | 0.18 | 0.20 | 0.09 | 0.12 | 0.14 | 0.13 | 0.07 | 0.20 | 0.14 | | 0.15 | 0.22 | 0.30 |
| Eff: # of samples of TP - Eff | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 52.00 | | | 0.00 |
| Loading: TP - Eff kg/d | 0.038 | 0.016 | 0.043 | 0.046 | 0.043 | 0.013 | 0.025 | 0.018 | 0.010 | 0.032 | 0.031 | 0.031 | | 0.03 | 0.05 | |
| Percent Removal: TP - Raw % | 93.65 | 97.87 | 92.92 | 98.94 | 96.54 | 98.73 | 95.02 | 97.25 | 98.45 | 99.07 | 96.79 | 95.57 | | 96.73 | 99.07 | 0.00 |
| Nitrogen Series | | | | | | | | | | | | | | | | |
| Raw: Avg TKN - Raw mg/L | 38.40 | 40.00 | 24.90 | 88.30 | 40.40 | 60.70 | 22.80 | 46.70 | 77.95 | 66.40 | 60.20 | 35.40 | | 50.18 | 88.30 | 0.00 |
| Raw: # of samples of TKN - Raw | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 1.00 | 1.00 | 1.00 | 13.00 | | | 0.00 |
| Eff: Avg TAN - Eff mg/L | < 0.12 | < 0.13 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.16 | < 0.10 | < 0.13 | | < 0.11 | < 0.16 | 4.00 |
| Eff: # of samples of TAN - Eff | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 52.00 | | | 0.00 |
| Loading: TAN - Eff kg/d | < 0.021 | < 0.024 | < 0.026 | < 0.026 | < 0.021 | < 0.014 | < 0.021 | < 0.018 | < 0.014 | < 0.023 | < 0.016 | < 0.027 | | < 0.02 | < 0.03 | |
| Eff: Avg NO3-N - Eff mg/L | 35.04 | 33.30 | 19.58 | 26.32 | 31.79 | 44.33 | 34.58 | 34.82 | 43.25 | 38.84 | 49.98 | 41.85 | | 36.14 | 49.98 | 0.00 |
| Eff: # of samples of NO3-N - Eff | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 52.00 | | | 0.00 |
| Eff: Avg NO2-N - Eff mg/L | < 0.08 | < 0.09 | < 0.13 | < 0.05 | < 0.03 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.04 | < 0.06 | < 0.24 | | < 0.07 | < 0.24 | 0.00 |
| Eff: # of samples of NO2-N - Eff | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 52.00 | | | 0.00 |
| Disinfection | | | | | | | | | | | | | | | | |
| Eff: GMD E. Coli - Eff cfu/100mL | 1.97 | 1.00 | 5.45 | 1.00 | 1.43 | 1.00 | 1.00 | 1.00 | 1.00 | 1.32 | 1.00 | 1.00 | | | 5.45 | 150.00 |
| Eff: # of samples of E. Coli - Eff | 5.00 | 4.00 | 4.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 52.00 | | | 0.00 |

APPENDIX B



Sample Schedule 2023 1536 Talbotville WWTP

Issued: 2023-09-11
Rev.#: 1
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 (Pre & Post UV) | 4 | 5 | 6 IH Reduced | 7 |
| 8 | 9 | 10 IH Full Effluent Samples (Pre & Post UV) | 11 | 12 | 13 IH Reduced | 14 |
| 15 | 16 | 17 IH Full Effluent Samples (Pre & Post UV) | 18 | 19 | 20 IH Reduced | 21 |
| 22 | 23 | 24 IH Full Effluent Samples (Pre & Post UV) | 25 | 26 | 27 IH Reduced | 28 |
| 29 | 30 | 31 IH Full Effluent Samples (Pre & Post UV) | | | | |

IH (In House) Full:

Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)

IH (In House) Reduced:

Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)

Raw Samples:

24hr Monthly Composite (BOD5, TSS, TP, TKN)

Effluent Samples:

24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)

Sludge Sample:

Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Sample Schedule 2023

1536 Talbotville WWTP

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

Reviewed by: QEMS Representative

Approved by: Operations Management

February 2023

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

- IH (In House) Full:** Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)
- IH (In House) Reduced:** Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)
- Raw Samples:** 24hr Monthly Composite (BOD5, TSS, TP, TKN)
- Effluent Samples:** 24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)
- Sludge Sample:** Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Sample Schedule 2023 1536 Talbotville WWTP

Issued: 2023-09-11
Rev.#: 1
Pages: 3 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

March 2023

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

IH (In House) Full:

Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)

IH (In House) Reduced:

Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)

Raw Samples:

24hr Monthly Composite (BOD5, TSS, TP, TKN)

Effluent Samples:

24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)

Sludge Sample:

Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Sample Schedule 2023 1536 Talbotville WWTP

Issued: 2023-09-11
Rev.#: 1
Pages: 4 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

April 2023

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

IH (In House) Full:

Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)

IH (In House) Reduced:

Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)

Raw Samples:

24hr Monthly Composite (BOD5, TSS, TP, TKN)

Effluent Samples:

24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)

Sludge Sample:

Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Ontario Clean Water Agency

Sample Schedule 2023 1536 Talbotville WWTP

Issued: 2023-09-11
Rev.#: 1
Pages: 5 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

May 2023

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

IH (In House) Full:

Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)

IH (In House) Reduced:

Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)

Raw Samples:

24hr Monthly Composite (BOD5, TSS, TP, TKN)

Effluent Samples:

24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)

Sludge Sample:

Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Sample Schedule 2023 1536 Talbotville WWTP

Issued: 2023-09-11
Rev.#: 1
Pages: 6 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

June 2023

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

IH (In House) Full:

Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)

IH (In House) Reduced:

Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)

Raw Samples:

24hr Monthly Composite (BOD5, TSS, TP, TKN)

Effluent Samples:

24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)

Sludge Sample:

Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Ontario Clean Water Agency

Sample Schedule 2023 1536 Talbotville WWTP

Issued: 2023-09-11
Rev.#: 1
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 (Pre & Post UV) | 5 | 6 | 7 IH Reduced | 8 |
| 9 | 10 | 11 IH Full Effluent Samples (Pre & Post UV) | 12 | 13 | 14 IH Reduced | 15 |
| 16 | 17 | 18 IH Full Effluent Samples (Pre & Post UV) | 19 | 20 | 21 IH Reduced | 22 |
| 23 | 24 | 25 IH Full Effluent Samples (Pre & Post UV) | 26 | 27 | 28 IH Reduced | 29 |
| 30 | 31 | | | | | |

IH (In House) Full:

Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)

IH (In House) Reduced:

Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)

Raw Samples:

24hr Monthly Composite (BOD5, TSS, TP, TKN)

Effluent Samples:

24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)

Sludge Sample:

Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Ontario Clean Water Agency

Sample Schedule 2023 1536 Talbotville WWTP

Issued: 2023-09-11
Rev.#: 1
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 (Pre & Post UV) | 2 | 3 | 4 IH Reduced | 5 |
| 6 | 7 STAT | 8 Annual Sludge IH Full Effluent (Pre & Post UV) | 9 | 10 | 11 IH Reduced | 12 |
| 13 | 14 | 15 IH Full Effluent Samples (Pre & Post UV) | 16 | 17 | 18 IH Reduced | 19 |
| 20 | 21 | 22 IH Full Effluent Samples (Pre & Post UV) | 23 | 24 | 25 IH Reduced | 26 |
| 27 | 28 | 29 IH Full Effluent Samples (Pre & Post UV) | 30 | 31 | | |

IH (In House) Full:

Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)

IH (In House) Reduced:

Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)

Raw Samples:

24hr Monthly Composite (BOD5, TSS, TP, TKN)

Effluent Samples:

24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)

Sludge Sample:

Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Sample Schedule 2023 1536 Talbotville WWTP

Issued: 2023-09-11
Rev.#: 1
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 (Pre & Post UV) | 6 | 7 | 8 IH Reduced | 9 |
| 10 | 11 | 12 IH Full Effluent Samples (Pre & Post UV) | 13 | 14 | 15 IH Reduced | 16 |
| 17 | 18 | 19 IH Full Effluent Samples (Pre & Post UV) | 20 | 21 | 22 IH Reduced | 23 |
| 24 | 25 | 26 IH Full Effluent Samples (Pre & Post UV) | 27 | 28 | 29 IH Reduced | 30 |

- IH (In House) Full:** Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)
- IH (In House) Reduced:** Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)
- Raw Samples:** 24hr Monthly Composite (BOD5, TSS, TP, TKN)
- Effluent Samples:** 24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)
- Sludge Sample:** Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Sample Schedule 2023 1536 Talbotville WWTP

Issued: 2023-09-11
Rev.#: 1
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 Full Monthly Raw & Effluent Samples (Pre & Post UV) | 4 | 5 | 6 IH Reduced | 7 |
| 8 | 9 STAT | 10 IH Full Effluent Samples (Pre & Post UV) | 11 | 12 | 13 IH Reduced | 14 |
| 15 | 16 | 17 IH Full Effluent Samples (Pre & Post UV) | 18 | 19 | 20 IH Reduced | 21 |
| 22 | 23 | 24 IH Full Effluent Samples (Pre & Post UV) | 25 | 26 | 27 IH Reduced | 28 |
| 29 | 30 | 31 IH Full Effluent Samples (Pre & Post UV) | | | | |

- IH (In House) Full:** Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)
- IH (In House) Reduced:** Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)
- Raw Samples:** 24hr Monthly Composite (BOD5, TSS, TP, TKN)
- Effluent Samples:** 24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)
- Sludge Sample:** Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Sample Schedule 2023

1536 Talbotville WWTP

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

Reviewed by: QEMS Representative

Approved by: Operations Management

November 2023

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

IH (In House) Full:

Raw 24hr Composite (pH)
 Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
 Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)

IH (In House) Reduced:

Aeration (Filterability, DO, pH, Temp.)
 Effluent (DO, pH, Temp., TP, NH3+NH4)

Raw Samples:

24hr Monthly Composite (BOD5, TSS, TP, TKN)

Effluent Samples:

24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
 Grab (E. coli), Pre-UV Grab (E.coli)

Sludge Sample:

Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |



Sample Schedule 2023 1536 Talbotville WWTP

Issued: 2023-09-11
Rev.#: 1
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 | 5 IH Full Monthly Raw & Effluent Samples (Pre & Post UV) | 6 | 7 | 8 IH Reduced | 9 |
| 10 | 11 | 12 IH Full Effluent Samples (Pre & Post UV) | 13 | 14 | 15 IH Reduced | 16 |
| 17 | 18 | 19 IH Full Effluent Samples (Pre & Post UV) | 20 | 21 | 22 IH Reduced | 23 |
| 24 | 25 STAT | 26 STAT | 27 IH Full Effluent Samples (Pre & Post UV) | 28 | 29 IH Reduced | 30 |
| 31 | | | | | | |

- IH (In House) Full:** Raw 24hr Composite (pH)
Aeration (Filterability, MLSS, MLVSS, DO, pH, Temp.)
Effluent 24hr Composite (pH, TP, NH3+NH4, SS); Grab (DO, Temp., pH)
- IH (In House) Reduced:** Aeration (Filterability, DO, pH, Temp.)
Effluent (DO, pH, Temp., TP, NH3+NH4)
- Raw Samples:** 24hr Monthly Composite (BOD5, TSS, TP, TKN)
- Effluent Samples:** 24hr Weekly Composite (CBOD5, TSS, TP, NH3+NH4, TKN, NO3, NO2, Temp, pH)
Grab (E. coli), Pre-UV Grab (E.coli)
- Sludge Sample:** Annual grab (TSS, TP, TAN, Nitrate, Metal Scan-see ECA)

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 |
| 2023-09-11 | 1 | Added October 2 nd STAT | Raegan Ayres |

APPENDIX C

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3181392 | | | Talbotville WWTP | PM | Inspection | 1 | YEARS | Daily Operations and Maintenance (1y) - 1536 | COMP | 1/1/23 12:00 AM | 4/21/23 08:30 AM | 5/12/23 12:15 PM | - - - - - On site with A Trask for facility training - On site with A Trask to assist with alarm testing - training Lucas on site - Chemical backwash training - - - - - site check - - - - |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| | | | | | | | | | | | | | - |
| 3181789 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 1/1/23 12:00 AM | 1/30/23 07:33 AM | 1/30/23 07:33 AM | Generator Diesel Testing - Completed generator run test |
| 3181804 | | | Talbotville WWTP | PM | Inspection | 3 | MONTHS | BLOWERS inspection/service (3m/ 1y) 1536 | CLOSE | 1/1/23 12:00 AM | 4/26/23 07:56 AM | 4/26/23 07:56 AM | BLOWERS inspection/service - completed blower inspection |
| 3181807 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 3 | MONTHS | Pump Diaphragm Inspection/ Service (3m) 1536 | CLOSE | 1/1/23 12:00 AM | 1/25/23 04:06 PM | 1/25/23 04:06 PM | Pump Diaphragm Inspection/Service - completed inspection pump 1 ofalumpumscurrently out of service and waiting for rebuild kit |
| 3181819 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 1/1/23 12:00 AM | 1/25/23 03:50 PM | 1/25/23 03:50 PM | SAFETY EYEWASH SHOWER INSPECTION - Completed inspection. |
| 3181823 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 1/1/23 12:00 AM | 1/31/23 03:31 PM | 1/31/23 03:31 PM | ANALYZER PH INSPECTION/ CALIBRATION - continuing to work with prominrnt about issue |
| 3181828 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 1/1/23 12:00 AM | 1/31/23 03:46 PM | 1/31/23 03:46 PM | Health & Safety Fire Extinguisher Inspection - completed Health & Safety Fire Extinguisher Inspection |
| 3181839 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 1/1/23 12:00 AM | 1/31/23 03:40 PM | 1/31/23 03:40 PM | bulding and grounds - salted side walk |
| 3181841 | 0000063366 | ANALYZER HYDROSULPHIDE GT-7901 SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 6 | MONTHS | Gas Analyzers Insp (6m) 1536 | CLOSE | 1/1/23 12:00 AM | 3/21/23 07:41 AM | 3/21/23 07:41 AM | Gas Analyzers Insp - Hetek was onsite february 7th to service unit |
| 3182077 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 1/1/23 12:00 AM | 1/31/23 03:43 PM | 1/31/23 03:43 PM | Carbon Filter Cleaning Inspection (- checked for any unusual noises or vibrations issue with low pressure b 201 still present |
| 3183083 | 0000063248 | TANK HOT WATER AERATION RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | YEARS | Heater Hot Water Inspection/ Service (1y) 1536 | CLOSE | 1/1/23 12:00 AM | 2/28/23 03:20 PM | 2/28/23 03:20 PM | - inspected hot water tank, no leaks, good temperature |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3183086 | | | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 1/1/23 12:00 AM | 1/25/23 03:55 PM | 1/25/23 03:55 PM | Filter Membrane - completed inspection and manual backwash |
| 3183088 | | | Talbotville WWTP | PM | Inspection | 1 | YEARS | Pump Cent EQ / MEM / EFL / P500 Inspection (1y) 1536 | CLOSE | 1/1/23 12:00 AM | 3/30/23 03:32 PM | 3/30/23 03:32 PM | Pump Cent EQ / MEM / EFL / P500 Inspection - completed Pump Cent EQ / MEM / EFL / P500 Inspection greased pumps |
| 3183091 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 1/1/23 12:00 AM | 1/25/23 03:57 PM | 1/25/23 03:57 PM | Screen Bar Insp/Service - Sprayed down and cleaned brushes |
| 3183093 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 1/1/23 12:00 AM | 1/31/23 03:38 PM | 1/31/23 03:38 PM | Solenoid Valve Exercise - Solenoid Valve Exercise - Completed Solenoid Valve Exercise |
| 3188156 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 1/1/23 12:00 AM | 2/21/23 09:07 AM | 2/21/23 09:07 AM | - |
| 3192330 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 1/1/23 12:00 AM | 3/3/23 03:46 PM | 3/3/23 03:46 PM | Critical Alarm Testing - Completed |
| 3201117 | | | Talbotville WWTP | PM | Compliance | 1 | YEARS | Annual Performance Report (Due March 31) -1536 | CLOSE | 3/1/23 12:00 AM | 1/3/23 12:31 AM | 3/16/23 09:36 AM | Annual Wastewater Report - Talbotville report finished. |
| 3202946 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 1/10/23 12:00 AM | 2/21/23 09:08 AM | 2/21/23 09:08 AM | - |
| 3204172 | | | Talbotville WWTP | PM | Compliance | 1 | YEARS | RP03 Annual Report ECA | CLOSE | 1/17/23 12:00 AM | 3/16/23 08:36 AM | 3/16/23 08:36 AM | Annual Wastewater Report - Completed annual wastewater report. Emailed to client and Ministry on 03/15/2023. Took 6 hours to complete. |
| 3204726 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 1/19/23 12:00 AM | 1/25/23 04:00 PM | 1/25/23 04:00 PM | Analyzer DO Portable Insp. - cleaned probe and checked for error messege |
| 3229187 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 2/1/23 12:00 AM | 2/17/23 03:48 PM | 2/17/23 03:48 PM | Generator Diesel Testing - ran generator for 1 hr |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 Finish | WorkLog Detail |
| 3229197 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 2/1/23 12:00 AM | 2/28/23 03:18 PM | 2/28/23 03:18 PM | - completed eye wash station inspection, in good working order |
| 3229201 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 2/1/23 12:00 AM | 2/28/23 03:28 PM | 2/28/23 03:28 PM | - still trying to locate new cord for ph analyzer |
| 3229206 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 2/1/23 12:00 AM | 2/28/23 03:19 PM | 2/28/23 03:19 PM | - completed fire extinguisher inspection |
| 3229217 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 2/1/23 12:00 AM | 2/28/23 03:27 PM | 2/28/23 03:27 PM | - general cleaning, shovelling chipping ice |
| 3229336 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 2/1/23 12:00 AM | 2/28/23 03:23 PM | 2/28/23 03:23 PM | - continental changed carbon drum bedding sept. 7 2022 |
| 3229971 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | YEARS | Pneumatic Actuator Route Insp/ Service (1y) - 1536 | CLOSE | 2/1/23 12:00 AM | 3/27/23 04:05 PM | 3/27/23 04:05 PM | Pneumatic Actuator Route Insp/ Service - Completed Pneumatic Actuator Route Insp/Service |
| 3229998 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 2/1/23 12:00 AM | 2/28/23 03:26 PM | 2/28/23 03:26 PM | - MBR1 was physically cleaned last week, MBR2 to be physically cleaned soon |
| 3230000 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | YEARS | Panel Control / Distribution Inspection/Service (1y) 1536 | CLOSE | 2/1/23 12:00 AM | 3/27/23 04:09 PM | 3/27/23 04:09 PM | Panel Control / Distribution Inspection/Service - Completed Panel Control / Distribution Inspection/Service |
| 3230003 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 2/1/23 12:00 AM | 2/28/23 03:24 PM | 2/28/23 03:24 PM | - took front plate off and sprayed down screener, everything seems to be working fine |
| 3230012 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 2/1/23 12:00 AM | 2/28/23 03:21 PM | 2/28/23 03:21 PM | - solenoid valve exercised, working good no issues |
| 3236717 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 2/1/23 12:00 AM | 2/28/23 03:34 PM | 2/28/23 03:34 PM | - tested critical alarms, working good |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3237154 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 2/1/23 12:00 AM | 2/22/23 11:35 AM | 2/22/23 11:35 AM | Wiski Data Reviewed - Wiski data reviewed 02/14/23. Finished reviewing 02/22/23 and closing out work order. Took about an hour to complete. |
| 3245245 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 2/10/23 12:00 AM | 3/3/23 10:32 PM | 3/3/23 10:32 PM | - |
| 3246458 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 2/19/23 12:00 AM | 2/28/23 03:29 PM | 2/28/23 03:29 PM | - analyzer cleaned and inspected, appears to be in good working condition |
| 3246461 | 0000063406 | ANALYZER DO / TEMP/PH DO/TT-501 AERATION RM | Talbotville WWTP | PM | Inspection | 1 | YEARS | Do Probe Calibration (1y) 1536 | CLOSE | 2/19/23 12:00 AM | 3/27/23 04:07 PM | 3/27/23 04:07 PM | Do Probe Calibration - completed cleaning and inspection on probe |
| 3272101 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 3/1/23 12:00 AM | 4/3/23 04:00 PM | 4/3/23 04:00 PM | Generator Diesel Testing - Completed Generator Diesel Testing |
| 3272113 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 3/1/23 12:00 AM | 3/27/23 04:14 PM | 3/27/23 04:14 PM | SAFETY EYEWASH SHOWER INSPECTION - Completed SAFETY EYEWASH SHOWER INSPECTION |
| 3272117 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 3/1/23 12:00 AM | 4/18/23 07:38 AM | 4/18/23 07:38 AM | ANALYZER PH INSPECTION/ CALIBRATION - Analyzer no longer taking cal. will need to speak to prominent. |
| 3272122 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 3/1/23 12:00 AM | 4/3/23 04:01 PM | 4/3/23 04:01 PM | Health & Safety Fire Extinguisher Inspection - Completed Health & Safety Fire Extinguisher Inspection (1m) 1536 |
| 3272133 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 3/1/23 12:00 AM | 4/4/23 07:36 AM | 4/4/23 07:36 AM | Building and Grounds Maintenance - cleaned buildings |
| 3272253 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 3/1/23 12:00 AM | 3/30/23 03:25 PM | 3/30/23 03:25 PM | Carbon Filter Cleaning Inspection - Notified ORO filters are full. |
| 3273015 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 3/1/23 12:00 AM | 3/30/23 03:27 PM | 3/30/23 03:27 PM | Filter Membrane - Completed Inspection |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
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 Location: 1536,1536-WWTV
 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 |
| 3273017 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 3/1/23 12:00 AM | 3/30/23 03:29 PM | 3/30/23 03:29 PM | Screen Bar Insp/Service - Completed Screen Bar Insp/Service |
| 3273019 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 3/1/23 12:00 AM | 3/30/23 03:31 PM | 3/30/23 03:31 PM | Solenoid Valve Exercise - Completed Solenoid Valve Exercise |
| 3279103 | | | Talbotville WWTP | PM | Inspection | 3 | MONTHS | Supervisor Spot Checks NS Cluster Consulting (3m) 1536 | CLOSE | 3/1/23 12:00 AM | 4/11/23 09:06 AM | 4/11/23 09:06 AM | Site requires cleaning - Site requires cleaning |
| 3279744 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 3/1/23 12:00 AM | 4/26/23 07:47 AM | 4/26/23 07:47 AM | Critical Alarm Testing - Completed alarm testing |
| 3280164 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 3/1/23 12:00 AM | 3/16/23 08:15 AM | 3/16/23 08:15 AM | Wiski Data Reviewed - Reviewed WISKI Data. Ran report and entered data into client report PAR spreadsheet to ensure compliance. 1 hour. |
| 3289100 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 3/10/23 12:00 AM | 4/4/23 03:52 PM | 4/4/23 03:52 PM | - |
| 3290097 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 3/19/23 12:00 AM | 4/4/23 07:38 AM | 4/4/23 07:38 AM | Analyzer DO Portable Insp - Completed Analyzer DO Portable Insp |
| 3318997 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 4/1/23 12:00 AM | 4/27/23 03:38 PM | 4/27/23 03:38 PM | Generator Diesel Testing - Completed Generator Diesel Testing |
| 3319012 | | | Talbotville WWTP | PM | Inspection | 3 | MONTHS | BLOWERS inspection/service (3m/ly) 1536 | CLOSE | 4/1/23 12:00 AM | 5/10/23 03:34 PM | 5/10/23 03:34 PM | BLOWERS inspection/service - Completed inspection and changed oil and greased |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3319022 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 3 | MONTHS | Pump Diaphragm Inspection/ Service (3m) 1536 | CLOSE | 4/1/23 12:00 AM | 5/19/23 03:56 PM | 5/19/23 03:56 PM | Pump Diaphragm Inspection/Service (3m) 1536 - 13:00: Changed the wet end valves on the Alum standby pump with new spares. Cleaned out wet end on back of pump. 14:30: Changed out the wet end valves on the duty caustic pump with new spares. Cleaned wet end at back of pump. Shortened foot valve suction line as it was too long and foot valve was on the bottom of day tank. Cleaned out foot valve. Upon starting pump back up, the pump appears to be air locked and not sucking up. Will try to troubleshoot. 15:40: Tried switching to the standby caustic pump but am having the same apparent air lock issue. Tried loosening the bleed plug and the suction and discharge valves to release air but is not working. Tried removing foot valve but issue still persists. 16:30: Discussed with ORO. Aeration tank pH is 7.36 currently. I manually dosed 500mL into the aeration tank. Leaving caustic pump off for the night and will return tomorrow morning to continue working on issue resolution. |

Workorder Summary Report

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 Location: 1536,1536-WWTV
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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 |
| | | | | | | | | | | | | | Pump Diaphragm Inspection/Service (3m) 1536 - 07:30: Onsite to continue working on caustic pump. 08:15: Took duty caustic pump foot valve and put in hot water, and then the pump was able to build suction and pump up. Once water started coming out the top of the discharge valve on the pump, connected discharge hosing to discharge valve. Ensured caustic is making its way to the dosage point in aeration. Will give pump some time and then perform a drawdown. 08:45: Took a drawdown on the duty caustic pump and measured 13mL/min. Drawdown yesterday on the now standby pump was 10mL/min. Will decrease caustic pump settings until dosing is 10mL/min. 09:15: Cleaned out wet end of the now standby caustic pump to clean out caustic from the wet end after trying to run it yesterday after changing out west end valves and diaphragm. Ran hot water through the west end fittings until caustic appeared to have cleared. Pump was operating good. Left in standby. 09:45: Performed another |

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 |
| | | | | | | | | | | | | | drawdown on the now duty caustic pump and it is dosing 10mL/min. New pump settings: stroke was decreased from 70 to 65%. Speed was decreased from 60 to 50%. Notified ORO pump is working. Pump Diaphragm Inspection/Service (3m) 1536 - Assisted A. Trask with pump inspection/rebuilds. |
| 3319034 | | | Talbotville WWTP | PM | Inspection | 6 | MONTHS | Heaters Inspection/Service (6m) - 1536 | CLOSE | 4/1/23 12:00 AM | 4/26/23 07:58 AM | 4/26/23 07:58 AM | Heaters Inspection/Service - completed heater inspections |
| 3319038 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 4/1/23 12:00 AM | 4/20/23 03:32 PM | 4/20/23 03:32 PM | SAFETY EYEWASH SHOWER INSPECTION - Completed SAFETY EYEWASH SHOWER INSPECTION |
| 3319042 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 4/1/23 12:00 AM | 4/18/23 07:38 AM | 4/18/23 07:38 AM | ANALYZER PH INSPECTION/ CALIBRATION - Analyzer no longer taking cal. will need to speak to prominent. |
| 3319047 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 4/1/23 12:00 AM | 4/28/23 04:01 PM | 4/28/23 04:01 PM | Health & Safety Fire Extinguisher Inspection - Completed Health & Safety Fire Extinguisher Inspection |
| 3319058 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 4/1/23 12:00 AM | 4/28/23 04:05 PM | 4/28/23 04:05 PM | Building and Grounds Maintenance - Completed Building and Grounds Maintenance |
| 3319211 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 4/1/23 12:00 AM | 4/20/23 03:33 PM | 4/20/23 03:33 PM | Carbon Filter Cleaning Inspection - completed visual inspection and notified ORO that Farmington said they should be changed last month |
| 3320078 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 4/1/23 12:00 AM | 4/26/23 07:48 AM | 4/26/23 07:48 AM | Filter Membrane - Completed Filter Membrane inspection |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
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 Location: 1536,1536-WWTV
 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 |
| 3320080 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 4/1/23 12:00 AM | 4/27/23 03:41 PM | 4/27/23 03:41 PM | Screen Bar Insp/Service - Completed bar screen inspection/cleaning |
| 3320082 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 4/1/23 12:00 AM | 4/26/23 07:51 AM | 4/26/23 07:51 AM | Solenoid Valve Exercise - Completed Solenoid Valve Exercise |
| 3328931 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 4/1/23 12:00 AM | 4/27/23 03:43 PM | 4/27/23 03:43 PM | Critical Alarm Testing - Completed alarm testing. unable to test bar screen HIGH High Discussed with OIC and he will come with me next week to investigate |
| 3329513 | | | Talbotville WWTP | PM | Compliance | 3 | MONTHS | CL01 Client Performance Report ORG | CLOSE | 4/1/23 12:00 AM | 4/19/23 03:08 PM | 4/19/23 03:08 PM | Client Report Completed - Talbotvilles client report completed. |
| 3329515 | | | Talbotville WWTP | PM | Compliance | 3 | MONTHS | RP05 WSER Monitoring ORG | CLOSE | 4/1/23 12:00 AM | 4/19/23 03:26 PM | 4/19/23 03:26 PM | WSER Reported - Talbotville's WSER reported. |
| 3329529 | | | Talbotville WWTP | PM | Compliance | 3 | MONTHS | CM03 Bypass/Overflow | CLOSE | 4/1/23 12:00 AM | 4/19/23 03:30 PM | 4/19/23 03:30 PM | Bypass Report Emailed - Bypass/overflow report emailed. |
| 3329534 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 4/1/23 12:00 AM | 4/19/23 02:43 PM | 4/19/23 02:43 PM | Wiski Data Reviewed - Talbotville wiski data reviewed. |
| 3339153 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 4/10/23 12:00 AM | 5/5/23 03:23 PM | 5/5/23 03:23 PM | 1536 Weekly samples for Talbotville STP - Completed 1536 Weekly samples for Talbotville STP |
| 3340621 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 4/19/23 12:00 AM | 4/20/23 03:39 PM | 4/20/23 03:39 PM | Analyzer DO Portable Insp. - completed Analyzer DO Portable Insp. |
| 3366589 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 5/1/23 12:00 AM | 5/31/23 02:42 PM | 5/31/23 02:42 PM | Generator Diesel Testing - completed run test |
| 3366599 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 5/1/23 12:00 AM | 5/19/23 03:45 PM | 5/19/23 03:45 PM | SAFETY EYEWASH SHOWER INSPECTION - completed inspection |
| 3366603 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 5/1/23 12:00 AM | 5/19/23 03:44 PM | 5/19/23 03:44 PM | ANALYZER PH INSPECTION/ CALIBRATION - installed new probe and calibrated |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3366608 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 5/1/23 12:00 AM | 5/31/23 02:43 PM | 5/31/23 02:43 PM | Health & Safety Fire Extinguisher Inspection - Completed inspections |
| 3366619 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 5/1/23 12:00 AM | 5/31/23 02:47 PM | 5/31/23 02:47 PM | Building and Grounds Maintenance - Completed WO |
| 3366742 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 5/1/23 12:00 AM | 5/17/23 07:49 AM | 5/17/23 07:49 AM | - Carbon Filter Cleaning Inspection completed visual inspection unit currently off as blower 201 is out for servicing |
| 3367427 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 5/1/23 12:00 AM | 5/31/23 02:48 PM | 5/31/23 02:48 PM | Filter Membrane Inspection - Completed inspection |
| 3367429 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 5/1/23 12:00 AM | 5/31/23 02:48 PM | 5/31/23 02:48 PM | Screen Bar Insp/Service - Completed inspection and cleaning |
| 3367431 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 5/1/23 12:00 AM | 5/31/23 02:49 PM | 5/31/23 02:49 PM | Solenoid Valve Exercise - completed WO |
| 3374564 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 5/1/23 12:00 AM | 5/31/23 02:46 PM | 5/31/23 02:46 PM | Critical Alarm Testing - Completed testing |
| 3375012 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 5/1/23 12:00 AM | 5/9/23 10:20 AM | 5/9/23 10:20 AM | Wiski Data Reviewed - Wiski data for Talbotville reviewed. |
| 3383143 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 5/2/23 12:00 AM | 6/26/23 04:35 PM | 6/26/23 04:35 PM | 1536 Weekly samples for Talbotville STP - Completed sampling and testing |
| 3385927 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 5/19/23 12:00 AM | 5/19/23 03:47 PM | 5/19/23 03:47 PM | Analyzer DO Portable Insp - Completed inspection |
| 3413879 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 6/1/23 12:00 AM | 6/28/23 02:53 PM | 6/28/23 02:53 PM | Generator Diesel Testing - Completed generator run test |
| 3413893 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 6/1/23 12:00 AM | 6/19/23 03:20 PM | 6/19/23 03:20 PM | SAFETY EYEWASH SHOWER INSPECTION - Completed inspection |
| 3413897 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 6/1/23 12:00 AM | 6/30/23 07:56 AM | 6/30/23 07:56 AM | ANALYZER PH INSPECTION/ CALIBRATION -tried calibrating ph unit but would not accept cal, new probe on its way |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3413902 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 6/1/23 12:00 AM | 6/30/23 02:31 PM | 6/30/23 02:31 PM | Health & Safety Fire Extinguisher Inspection - Completed inspection |
| 3413913 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 6/1/23 12:00 AM | 6/28/23 02:54 PM | 6/28/23 02:54 PM | Building and Grounds Maintenance - Clean screener room |
| 3414032 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 6/1/23 12:00 AM | 6/28/23 02:56 PM | 6/28/23 02:56 PM | Carbon Filter Cleaning Inspection - Completed inspection |
| 3414770 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 6/1/23 12:00 AM | 6/30/23 07:58 AM | 6/30/23 07:58 AM | Filter Membrane Inspection - Completed inspection |
| 3414772 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 6/1/23 12:00 AM | 6/30/23 02:32 PM | 6/30/23 02:32 PM | Screen Bar Insp/Service - Completed inspection |
| 3414774 | 0000063271 | TANK PROCESS AERATION T-501 AERATION RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | YEARS | Aeration Tank Inspection (1y) 1536 | CLOSE | 6/1/23 12:00 AM | 10/11/23 09:05 AM | 10/11/23 09:05 AM | Aeration Tank Inspection - Completed inspection |
| 3414786 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 6/1/23 12:00 AM | 6/19/23 03:22 PM | 6/19/23 03:22 PM | Solenoid Valve Exercise - Completed WO |
| 3415137 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | YEARS | Drive VFD Inspection (1y) - Route 1536 | CLOSE | 6/1/23 12:00 AM | 11/21/23 02:44 PM | 11/21/23 02:44 PM | Drive VFD Inspection (1y) - Route 1536 - Completed annual VFD inspections. VFD for B-601 has a current limit warning. Notified ORO and will discuss with Newterra when they are on site next week. |
| 3415143 | | | Talbotville WWTP | PM | Inspection | 6 | MONTHS | Uv Light Bank Insp/Clean/Service (6m / 2y) 1536 | CLOSE | 6/1/23 12:00 AM | 6/19/23 03:27 PM | 6/19/23 03:27 PM | Uv Light Bank Insp/Clean/Service - Cleaning completed in may |
| 3421484 | | | Talbotville WWTP | PM | Inspection | 3 | MONTHS | Supervisor Spot Checks NS Cluster Consulting (3m) 1536 | CLOSE | 6/1/23 12:00 AM | 6/30/23 12:01 PM | 6/30/23 12:01 PM | Manhole Inspection at STP - Performed inspection on June 7, 2023. No issues noted Screen room blower - Note, waiting on delivery of blower in screen room for ventilation. Farmington performing repair |
| 3422122 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 6/1/23 12:00 AM | 6/28/23 03:01 PM | 6/28/23 03:01 PM | Critical Alarm Testing -completed critical alarm testing |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3422585 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 6/1/23 12:00 AM | 6/13/23 08:49 AM | 6/13/23 08:49 AM | Wiski Data Reviewed - Wiski Data reviewed. |
| 3430506 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 6/2/23 12:00 AM | 9/22/23 10:11 AM | 9/22/23 10:11 AM | - |
| 3434240 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 6/19/23 12:00 AM | 6/28/23 03:02 PM | 6/28/23 03:02 PM | Analyzer DO Portable Insp - Completed DO inspection |
| 3461346 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 7/1/23 12:00 AM | 8/1/23 07:38 AM | 8/1/23 07:38 AM | Generator Diesel Testing (1m) 1536 - Completed July 21 as generator was already running due to storm |
| 3461361 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 3 | MONTHS | BLOWERS inspection/service (3m/ 1y) 1536 | CLOSE | 7/1/23 12:00 AM | 10/11/23 09:05 AM | 10/11/23 09:05 AM | - assisted C.Robinson with blower oil changes |
| 3461369 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 3 | MONTHS | Pump Diaphragm Inspection/ Service (3m) 1536 | CLOSE | 7/1/23 12:00 AM | 11/21/23 02:47 PM | 11/21/23 02:47 PM | Pump Diaphragm Inspection/Service (3m) 1536 -Completed. |
| 3461381 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 7/1/23 12:00 AM | 8/1/23 07:43 AM | 8/1/23 07:43 AM | SAFETY EYEWASH SHOWER INSPECTION - Completed inspections |
| 3461385 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 7/1/23 12:00 AM | 8/1/23 07:36 AM | 8/1/23 07:36 AM | ANALYZER PH INSPECTION/ CALIBRATION - waiting to install new one |
| 3461390 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 7/1/23 12:00 AM | 8/1/23 07:44 AM | 8/1/23 07:44 AM | Health & Safety Fire Extinguisher Inspection - Completed inspection |
| 3461401 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 7/1/23 12:00 AM | 8/1/23 07:45 AM | 8/1/23 07:45 AM | Building and Grounds Maintenance - |
| 3461403 | 0000063366 | ANALYZER HYDROSULPHIDE GT-7901 SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 6 | MONTHS | Gas Analyzers Insp (6m) 1536 | CLOSE | 7/1/23 12:00 AM | 10/11/23 09:07 AM | 10/11/23 09:07 AM | Gas Analyzers Insp - hetek onsite sept 25th to complete inspection |
| 3461603 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 7/1/23 12:00 AM | 8/28/23 07:44 AM | 8/28/23 07:44 AM | Carbon Filter Cleaning Inspection - Completed inspection |
| 3462424 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 7/1/23 12:00 AM | 8/1/23 07:47 AM | 8/1/23 07:47 AM | Filter Membrane Inspection - Completed inspection |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3462426 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 7/1/23 12:00 AM | 8/1/23 07:48 AM | 8/1/23 07:48 AM | Screen Bar Insp/Service - completed bar screen insp |
| 3462428 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | YEARS | Valve Butterfly Inspection/ Maintenance (1y) 1536 | CLOSE | 7/1/23 12:00 AM | 11/21/23 02:49 PM | 11/21/23 02:49 PM | Valve Butterfly Inspection/ Maintenance (1y) 1536 -Completed annual inspection of butterfly valves. |
| 3462431 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 7/1/23 12:00 AM | 8/1/23 07:49 AM | 8/1/23 07:49 AM | Solenoid Valve Exercise - Completed Solenoid Valve Exercise |
| 3470551 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 7/1/23 12:00 AM | 7/25/23 04:09 PM | 7/25/23 04:09 PM | Critical Alarm Testing - Completed Critical Alarm Testing |
| 3471025 | | | Talbotville WWTP | PM | Compliance | 3 | MONTHS | CL01 Client Performance Report ORG | CLOSE | 7/1/23 12:00 AM | 7/14/23 01:07 PM | 7/14/23 01:07 PM | Client Report Completed - Talbotville client report completed. |
| 3471027 | | | Talbotville WWTP | PM | Compliance | 3 | MONTHS | RP05 WSER Monitoring ORG | CLOSE | 7/1/23 12:00 AM | 7/14/23 12:45 PM | 7/14/23 12:45 PM | WSER Reported - Talbotville WSER reported. |
| 3471030 | | | Talbotville WWTP | PM | Compliance | 3 | MONTHS | CM03 Bypass/Overflow | CLOSE | 7/1/23 12:00 AM | 7/14/23 01:09 PM | 7/14/23 01:09 PM | Bypass report emailed - Bypass report emailed. |
| 3471035 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 7/1/23 12:00 AM | 7/14/23 01:11 PM | 7/14/23 01:11 PM | Wiski Data Reviewed - Talbotville's wiski data reviewed |
| 3479007 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 7/2/23 12:00 AM | 8/22/23 07:50 AM | 8/22/23 07:50 AM | 1536 Weekly samples for Talbotville STP - Completed sampling |
| 3482460 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 7/19/23 12:00 AM | 8/1/23 07:50 AM | 8/1/23 07:50 AM | Analyzer DO Portable Insp. - Completed inspection |
| 3506901 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 8/1/23 12:00 AM | 8/28/23 07:41 AM | 8/28/23 07:41 AM | Generator Diesel Testing - gencare completed annual generator inspection |
| 3506911 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 8/1/23 12:00 AM | 8/28/23 07:42 AM | 8/28/23 07:42 AM | SAFETY EYEWASH SHOWER INSPECTION - Completed inspection |
| 3506915 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 8/1/23 12:00 AM | 8/10/23 08:13 AM | 8/10/23 08:13 AM | ANALYZER PH INSPECTION/ CALIBRATION - installed and calibrated new probe |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3506920 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 8/1/23 12:00 AM | 8/28/23 07:46 AM | 8/28/23 07:46 AM | Health & Safety Fire Extinguisher Inspection - Completed inspection |
| 3506931 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 8/1/23 12:00 AM | 8/31/23 03:00 PM | 8/31/23 03:00 PM | - |
| 3507050 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 8/1/23 12:00 AM | 8/28/23 07:47 AM | 8/28/23 07:47 AM | Carbon Filter Cleaning Inspection - Duplicate work order |
| 3507738 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 8/1/23 12:00 AM | 8/31/23 07:59 AM | 8/31/23 07:59 AM | Filter Membrane Inspection - Completed inspection |
| 3507740 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 8/1/23 12:00 AM | 8/28/23 07:49 AM | 8/28/23 07:49 AM | Screen Bar Insp/Service - Completed inspection and clean |
| 3507742 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 8/1/23 12:00 AM | 8/28/23 07:50 AM | 8/28/23 07:50 AM | Solenoid Valve Exercise - Completed inspection and exercise |
| 3514443 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 8/1/23 12:00 AM | 8/31/23 07:58 AM | 8/31/23 07:58 AM | Critical Alarm Testing - Completed alarm testing |
| 3514845 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 8/1/23 12:00 AM | 8/14/23 09:13 AM | 8/14/23 09:13 AM | Wiski Data Reviewed - Reviewed Wiski Data. All good. |
| 3522514 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 8/2/23 12:00 AM | 10/11/23 09:09 AM | 10/11/23 09:09 AM | 1536 Weekly samples for Talbotville STP - Completed sampling |
| 3525821 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 8/19/23 12:00 AM | 8/28/23 07:51 AM | 8/28/23 07:51 AM | Analyzer DO Portable Insp - Completed inspection |
| 3552696 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 9/1/23 12:00 AM | 9/29/23 01:26 PM | 9/29/23 01:26 PM | - completed monthly generator run test |
| 3552708 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 9/1/23 12:00 AM | 9/29/23 01:32 PM | 9/29/23 01:32 PM | - completed monthyl eyewash/ shower inspection |
| 3552712 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 9/1/23 12:00 AM | 9/29/23 01:43 PM | 9/29/23 01:43 PM | - inspected and calibrated PH unit, issue with cal slope will be looking into it |
| 3552717 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 9/1/23 12:00 AM | 9/29/23 01:34 PM | 9/29/23 01:34 PM | - completed monthly health and safety inspection |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3552728 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 9/1/23 12:00 AM | 9/29/23 01:42 PM | 9/29/23 01:42 PM | -general cleaning and yard maintenance for month of september |
| 3552852 | | | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 9/1/23 12:00 AM | 9/29/23 01:39 PM | 9/29/23 01:39 PM | - completed monthly carbon filter inspection |
| 3553705 | | | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 9/1/23 12:00 AM | 9/29/23 01:38 PM | 9/29/23 01:38 PM | - completed monthly filter membrane inspection |
| 3553707 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 9/1/23 12:00 AM | 9/29/23 01:37 PM | 9/29/23 01:37 PM | - completed monthly screen bar inspection and cleaning |
| 3553709 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 9/1/23 12:00 AM | 9/29/23 01:31 PM | 9/29/23 01:31 PM | - completed monthly solenoid exercise, operating good no issues |
| 3560403 | | | Talbotville WWTP | PM | Inspection | 3 | MONTHS | Supervisor Spot Checks NS Cluster Consulting (3m) 1536 | CLOSE | 9/1/23 12:00 AM | 10/10/23 10:57 AM | 10/10/23 10:57 AM | -Completed |
| 3561175 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 9/1/23 12:00 AM | 9/29/23 01:30 PM | 9/29/23 01:30 PM | - completed monthly critical alarm testing |
| 3561535 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 9/1/23 12:00 AM | 9/19/23 02:54 PM | 9/19/23 02:54 PM | Wiski Data Reviewed - Talbotville wiski data reviewed. |
| 3570757 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 9/2/23 12:00 AM | 9/29/23 01:43 PM | 9/29/23 01:43 PM | - completed required lab tests and weekly sampling - samples for month of september now complete |
| 3574016 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 9/19/23 12:00 AM | 9/29/23 01:28 PM | 9/29/23 01:28 PM | - completed monthly portable DO inspection |
| 3602002 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 10/1/23 12:00 AM | 10/26/23 06:45 AM | 10/26/23 06:45 AM | - completed monthly generator run test |
| 3602017 | | | Talbotville WWTP | PM | Inspection | 3 | MONTHS | BLOWERS inspection/service (3m/ 1y) 1536 | COMP | 10/1/23 12:00 AM | 1/5/24 03:53 PM | 1/5/24 03:53 PM | - Completed |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3602020 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 3 | MONTHS | Pump Diaphragm Inspection/ Service (3m) 1536 | CLOSE | 10/1/23 12:00 AM | 11/21/23 02:50 PM | 11/21/23 02:50 PM | Pump Diaphragm Inspection/Service (3m) 1536 -Completed quarterly chemical pump inspections/cleaning. |
| 3602032 | | | Talbotville WWTP | PM | Inspection | 6 | MONTHS | Heaters Inspection/Service (6m) - 1536 | CLOSE | 10/1/23 12:00 AM | 11/21/23 02:51 PM | 11/21/23 02:51 PM | Heaters Inspection/Service (6m) - 1536 -Completed bi-annual heater inspection. MBR room heater is not working. Notified ORO. Contacted Hawkins to book them in. |
| 3602036 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 10/1/23 12:00 AM | 10/26/23 06:46 AM | 10/26/23 06:46 AM | - completed monthly eyewash inspection |
| 3602040 | | | Talbotville WWTP | PM | Calibration | 1 | YEARS | Meter Flow Calbration (1y) 1536 | CLOSE | 10/1/23 12:00 AM | 10/18/23 09:19 AM | 10/18/23 09:19 AM | Meter Flow Calbration (1y) 1536 -Farmington completed calibration on Oct 11, 2023. |
| 3602043 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 10/1/23 12:00 AM | 10/26/23 06:47 AM | 10/26/23 06:47 AM | - calibrated unit,now out of alarm state |
| 3602048 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 10/1/23 12:00 AM | 10/26/23 06:48 AM | 10/26/23 06:48 AM | - completed monthly insoection |
| 3602059 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 10/1/23 12:00 AM | 10/31/23 05:43 PM | 10/31/23 05:43 PM | - |
| 3602217 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 10/1/23 12:00 AM | 10/28/23 01:59 PM | 10/28/23 01:59 PM | - completed monthly carbon filter inspection |
| 3603133 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 10/1/23 12:00 AM | 10/26/23 06:49 AM | 10/26/23 06:49 AM | - completed monthly filter inspections, MBR2 all new units, MBR 1 recently cleaned and inspected |
| 3603135 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 10/1/23 12:00 AM | 10/28/23 02:01 PM | 10/28/23 02:01 PM | - completed monthly screener inspection and cleaning |
| 3603137 | 0000063287 | METER LEVEL LDS-501 AERATION TANK AERATION RM | Talbotville WWTP | PM | Inspection | 1 | YEARS | Meter Level Insp/Service (1y) - 1536 | COMP | 10/1/23 12:00 AM | 1/5/24 03:53 PM | 1/5/24 03:53 PM | - Completed |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 Finish | WorkLog Detail |
| 3603140 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 10/1/23 12:00 AM | 10/28/23 02:00 PM | 10/28/23 02:00 PM | - completed monthly solenoid valve exercise |
| 3610802 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 10/1/23 12:00 AM | 10/26/23 06:50 AM | 10/26/23 06:50 AM | - completed monthly critical alarm testing |
| 3611243 | | | Talbotville WWTP | PM | Compliance | 3 | MONTHS | CL01 Client Performance Report ORG | CLOSE | 10/1/23 12:00 AM | 10/23/23 02:44 PM | 10/23/23 02:44 PM | Client Report Completed - Talbotville's client report complete |
| 3611245 | | | Talbotville WWTP | PM | Compliance | 3 | MONTHS | RP05 WSER Monitoring ORG | CLOSE | 10/1/23 12:00 AM | 10/23/23 02:48 PM | 10/23/23 02:48 PM | Bypass/Overflow - Bypass/Overflow report emailed to MECP. Nothing to report. |
| 3611259 | | | Talbotville WWTP | PM | Compliance | 3 | MONTHS | CM03 Bypass/Overflow | CLOSE | 10/1/23 12:00 AM | 10/23/23 02:46 PM | 10/23/23 02:46 PM | Bypass/overflow - Bypass/overflow report emailed to MECP. Mentioned spill as per M.G. |
| 3611264 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 10/1/23 12:00 AM | 10/23/23 02:40 PM | 10/23/23 02:40 PM | Wiski Data Reviewed - Talbotville wiski data reviewed |
| 3620374 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 10/2/23 12:00 AM | 10/31/23 05:44 PM | 10/31/23 05:44 PM | - collected weekly and monthly samples - completed weekly lab and sampling - completed weekly lab and sampling - completed sampling and lab tests for the week - full IH lab pre sampling - |
| 3623584 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 10/19/23 12:00 AM | 10/28/23 02:01 PM | 10/28/23 02:01 PM | - completed monthly portable DO inspection |
| 3646979 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | CLOSE | 11/1/23 12:00 AM | 11/24/23 02:43 PM | 11/24/23 02:43 PM | - completed monthly 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: 1536,1536-WWTV
 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 | |
| 3646999 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | CLOSE | 11/1/23 12:00 AM | 11/20/23 03:39 PM | 11/20/23 03:39 PM | - completed monthly eyewash shower inspection |
| 3647003 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | CLOSE | 11/1/23 12:00 AM | 11/21/23 02:36 PM | 11/21/23 02:36 PM | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 - Cleaned pH probe. Tried calibrating but would not take cal. Notified ORO. |
| 3647008 | | | Talbotville WWTP | OPER | Health and Safety | 1 | YEARS | OCWA Workplace Inspection (1y) - 1536 | COMP | 11/1/23 12:00 AM | 1/5/24 03:49 PM | 1/5/24 03:49 PM | - Completed |
| 3647014 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | CLOSE | 11/1/23 12:00 AM | 11/20/23 03:40 PM | 11/20/23 03:40 PM | - completed monthly fire extinguisher inspection |
| 3647025 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | CLOSE | 11/1/23 12:00 AM | 12/5/23 06:55 AM | 12/5/23 06:55 AM | - general cleaning and upkeep |
| 3647149 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | CLOSE | 11/1/23 12:00 AM | 11/21/23 02:40 PM | 11/21/23 02:40 PM | Carbon Filter Cleaning Inspection (1m / 1y) 1536 -Completed monthly inspection. |
| 3647829 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | CLOSE | 11/1/23 12:00 AM | 11/20/23 03:41 PM | 11/20/23 03:41 PM | - completed monthly filter membrane inspections |
| 3647831 | | | Talbotville WWTP | PM | Health and Safety | 1 | YEARS | Lifting Device Insp Route (1y) - 1536 | CLOSE | 11/1/23 12:00 AM | 11/21/23 02:54 PM | 11/21/23 02:54 PM | Lifting Device Insp Route (1y) - 1536 -Annual lifting device inspection was completed by HB material handling on Mar 28, 2023. |
| 3647834 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | CLOSE | 11/1/23 12:00 AM | 11/24/23 02:45 PM | 11/24/23 02:45 PM | - completed monthly screener inspection and cleaning |
| 3647836 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | CLOSE | 11/1/23 12:00 AM | 11/20/23 03:42 PM | 11/20/23 03:42 PM | - completed monthly solenoid exercise |
| 3654096 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | CLOSE | 11/1/23 12:00 AM | 12/5/23 06:56 AM | 12/5/23 06:56 AM | - monthly critical alarm testing completed end of month |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |
| 3654532 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 11/1/23 12:00 AM | 11/17/23 10:42 AM | 11/17/23 10:42 AM | Wiski Data Reviewed - Wiski data reviewed. |
| 3661777 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | CLOSE | 11/2/23 12:00 AM | 12/1/23 02:40 PM | 12/1/23 02:40 PM | - completed weekly and monthly sampling and required lab work - completed lab testing and sampling - completed smapling and lab tests for week |
| 3665099 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | CLOSE | 11/19/23 12:00 AM | 11/21/23 02:43 PM | 11/21/23 02:43 PM | Analyzer DO Portable Insp. (1m) - 1536 -Completed monthly inspection of portable DO/pH probes. |
| 3688435 | 0000063247 | GENERATOR DIESEL STAND-BY | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Generator Diesel Testing (1m) 1536 | COMP | 12/1/23 12:00 AM | 12/19/23 02:04 PM | 12/19/23 02:04 PM | - completed monthly generator run test |
| 3688445 | 0000063338 | SAFETY EYE WASH/ SHOWER BLOWER RM | Talbotville WWTP | PM | Health and Safety | 1 | MONTHS | SAFETY EYEWASH SHOWER INSPECTION (1m) 1536 | COMP | 12/1/23 12:00 AM | 12/19/23 01:54 PM | 12/19/23 01:54 PM | - completed monthly eyewash uinspection |
| 3688449 | 0000063342 | FAN EXHAUST PLC RM | Talbotville WWTP | PM | Inspection | 1 | MONTHS | ANALYZER PH INSPECTION/ CALIBRATION (1m) 1536 | COMP | 12/1/23 12:00 AM | 12/19/23 02:05 PM | 12/19/23 02:05 PM | - completed monthly PH inspection and calibration |
| 3688454 | | | Talbotville WWTP | OPER | Health and Safety | 1 | MONTHS | Health & Safety Fire Extinguisher Inspection (1m) 1536 | COMP | 12/1/23 12:00 AM | 12/19/23 01:55 PM | 12/19/23 01:55 PM | - completed monthly fire extinguisher inspection |
| 3688465 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Building and Grounds Maintenance (1m) 1536 | COMP | 12/1/23 12:00 AM | 1/10/24 09:23 PM | 1/10/24 09:23 PM | - |
| 3688584 | | | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | MONTHS | Carbon Filter Cleaning Inspection (1m / 1y) 1536 | COMP | 12/1/23 12:00 AM | 1/10/24 09:25 PM | 1/10/24 09:25 PM | - |
| 3689278 | 0000063374 | BLOWER CENTRIFUGAL B-201 CARBON DRUM AIR SCREENING RM | Talbotville WWTP | PM | Refurbish/ Replace/Repair | 1 | YEARS | Blower Control Drum Insp/Service (1y) 1536 | COMP | 12/1/23 12:00 AM | 1/5/24 03:48 PM | 1/5/24 03:48 PM | - Completed |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 Finish | WorkLog Detail |
| 3689291 | 0000063373 | BLOWER CENTRIFUGAL B-311 CARBON DRUM AIR SCREENING RM | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | YEARS | Blower Odour Control Drum Insp/Service (1y) 1536 | COMP | 12/1/23 12:00 AM | 1/5/24 03:47 PM | 1/5/24 03:47 PM | - COMPLETED |
| 3689304 | | | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Filter Membrane (1m) Inspection 1536 | COMP | 12/1/23 12:00 AM | 12/19/23 01:57 PM | 12/19/23 01:57 PM | - completed monthly filter membrane inspection, recently pulled half of MBR1 looking for leaks |
| 3689306 | 0000063376 | SCREEN BAR SCR-201 SCREENING RM | Talbotville WWTP | PM | Refurbish/Replace/Repair | 1 | MONTHS | Screen Bar Insp/Service (1m / 1y) - 1536 | COMP | 12/1/23 12:00 AM | 12/19/23 02:33 PM | 12/19/23 02:33 PM | - completed monthly screener inspection and cleaning |
| 3689308 | 0000063358 | VALVE SOLENOID SV-711 PLC RM | Talbotville WWTP | OPER | Inspection | 1 | MONTHS | Solenoid Valve Exercise (1m) 1536 | COMP | 12/1/23 12:00 AM | 12/19/23 01:58 PM | 12/19/23 01:58 PM | - completed monthly solenoid valve exercise |
| 3689543 | | | Talbotville WWTP | PM | Refurbish/Replace/Repair | 6 | MONTHS | Uv Light Bank Insp/Clean/Service (6m / 2y) 1536 | COMP | 12/1/23 12:00 AM | 1/5/24 03:46 PM | 1/5/24 03:46 PM | - Completed |
| 3694936 | | | Talbotville WWTP | PM | Inspection | 3 | MONTHS | Supervisor Spot Checks NS Cluster Consulting (3m) 1536 | COMP | 12/1/23 12:00 AM | 1/5/24 03:45 PM | 1/5/24 03:45 PM | - Completed |
| 3695462 | | | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Critical Alarm Testing (1m) 1536 | COMP | 12/1/23 12:00 AM | 1/10/24 09:26 PM | 1/10/24 09:26 PM | - |
| 3695845 | | | Talbotville WWTP | OPER | Compliance | 1 | MONTHS | WISKI Data Review (1m) 1536 | CLOSE | 12/1/23 12:00 AM | 12/11/23 11:17 AM | 12/11/23 11:17 AM | Wiski Data Reviewed -Talbotville's Wiski Data Reviewed. |
| 3703164 | | | Talbotville WWTP | PM | Compliance | 1 | MONTHS | 1536 Weekly samples for Talbotville STP | COMP | 12/2/23 12:00 AM | 1/5/24 03:44 PM | 1/5/24 03:44 PM | - completed weekly and monthly sampling, completed required lab tests - completed weekly sampling and lab testing - completed weekly sampling and required lab tests completed - |
| 3706205 | 0000063390 | ANALYZER DO /PH PORTABLE | Talbotville WWTP | PM | Inspection | 1 | MONTHS | Analyzer DO Portable Insp. (1m) - 1536 | COMP | 12/19/23 12:00 AM | 12/19/23 02:07 PM | 12/19/23 02:07 PM | - completed monthly portable DO inspection |

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1536,1536-WWTV
 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 |

APPENDIX D



SGS Canada Inc.
P.O. Box 4300 - 185 Concession St.
Lakefield - Ontario - K0L 2H0
Phone: 705-652-2000 FAX: 705-652-6365

Works #: 120003913

Project : PO#017018

04-October-2023

OCWA-Elgin Hub (Talbotville WWTP)

Attn : Matthew Belding

Date Rec. : 12 September 2023

LR Report: CA30203-SEP23

9210 Graham Road
West Lorne, ON
N0L 2P0, Canada

Copy: #1

Phone: 519-768-9925
Fax:pdf

CERTIFICATE OF ANALYSIS

Final Report

| Analysis | 1: Analysis Start Date | 2: Analysis Start Time | 3: Analysis Completed Date | 4: Analysis Completed Time | 5: Bslq Bslq-Sludge Holding Tank |
|---|------------------------------|------------------------------|----------------------------------|-------------------------------------|--|
| Sample Date & Time | | | | | 12-Sep-23 09:25 |
| Sampled By | | | | | Jesse Cofell |
| Temperature Upon Receipt [at London Lab °C] | --- | --- | --- | --- | 18.8 |
| Temperature Upon Receipt [°C] | -- | --- | --- | --- | 7.0 |
| Total Solids [mg/L] | 13-Sep-23 | 20:58 | 15-Sep-23 | 09:39 | 25500 |
| Ammonia+Ammonium (N) [as N mg/L] | 14-Sep-23 | 13:56 | 15-Sep-23 | 13:39 | 17.2 |
| Nitrite (as N) [mg/L] | 14-Sep-23 | 18:27 | 18-Sep-23 | 12:37 | < 3 |
| Nitrate (as N) [mg/L] | 14-Sep-23 | 18:27 | 18-Sep-23 | 12:37 | < 3 |
| Nitrate + Nitrite (as N) [mg/L] | 14-Sep-23 | 18:27 | 18-Sep-23 | 12:37 | < 3 |
| Arsenic [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | < 0.1 |
| Cadmium [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 0.007 |
| Cobalt [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 0.04 |
| Chromium [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 0.24 |
| Copper [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 7.1 |
| Mercury [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 0.002 |
| Potassium [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 62 |
| Molybdenum [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 0.06 |
| Nickel [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 0.21 |
| Phosphorus (Total) [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 357 |
| Lead [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 0.1 |
| Selenium [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | < 0.1 |
| Zinc [mg/L] | 29-Sep-23 | 14:59 | 03-Oct-23 | 15:11 | 9 |

Note: Metals and mercury were analyzed on the as-received sample.



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