



2023 Ailsa Craig WWTP Annual Performance Report

*Prepared For:
The Municipality of
North Middlesex*

Operating Authority:



Reporting Period of January 1st – December 31st, 2023

Issued: March 5, 2024

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Overview

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

- Condition 11(5) (a) through (l) cited in Environmental Compliance Approval #4151-7DPSHZ issued April 15, 2008, to The Corporation of the Municipality of North Middlesex.
- Schedule E (4) cited in Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) #002-W601 issued September 26, 2023, to The Corporation of the Municipality of North Middlesex.

System Process Description

The Ailsa Craig WWTP is located at 4381 Elginfield Road, Ontario. The plant is an extended aeration secondary treatment facility, with a rated capacity of 1,210 m³/d and comprised of the following components.

- Wastewater collection system and pumping stations
- Preliminary treatment facility consisting of screens and grit removal
- Extended aeration tanks consisting of biological treatment and supplementary treatment system
- Tertiary treatment facility
- Ultraviolet (UV) Light Disinfection system
- Biosolids handling consisting of aerobic digester and biosolids storage

Raw Wastewater Collection

Raw sewage typically flows by gravity through the collection system. Where gravity flow is not possible due to elevation restrictions, there are three pumping stations: New Ontario, Bear Creek, and William Street.

New Ontario and Bear Creek Pumping Stations have two submersible pumps each (1 duty/1 standby). These pumps have a rated capacity of 23.9 L/s and 19.0 L/s, respectively. Pumped sewage from the New Ontario and Bear Creek Pumping Stations flows into the William Street Pumping Station. The William Street Pumping Station has three pumps (2 duty, 1 standby); each with a rated capacity of 29 L/s. The William Street Pump Station pumps sewage to the Ailsa Craig WWTP via a 150mm forcemain.

Milltronics monitor wet well levels and control the start/stop cycle of all pumps as well as high-level alarms. There are also back-up float alarms at all pumping stations. The William Street Pumping Station has an emergency back-up generator.

Both Bear Creek and William Street Pumping Stations have sewer overflows. Bear Creek flows into the McIntyre Drain and then into the Ausable River. William Street flows directly into the Ausable River.

Inlet Works

Raw sewage flows from the collection system and the three pumping stations into the wet well. Raw sewage passes through an automatic bar screen on route to the vortex grit removal system equipped

with an airlift pump and a grit classifier. Grit is removed and conveyed into a bin that is sent to landfill for disposal. Raw sewage continues to flow by gravity to the aeration tanks.

Extended Aeration

Ailsa Craig WWTP is equipped with two aeration tanks with fine bubble diffusers. Following screening and grit removal operations, wastewater flows by gravity through a 600 mm open channel and is discharged directly into the aeration tanks through one inlet port per tank. Aeration tanks operate continuously on a flow displacement basis utilizing the extended aeration activated sludge process as the basis for treatment.

As wastewater is introduced into the aeration tanks and is mixed with the tank contents, oxygen is continuously supplied to the mixed liquor, which converts the substrate supplied to the aeration tanks to carbon dioxide, metabolic end products, and additional biomass.

Three positive displacement air blowers provides for the necessary oxygen requirements for the aeration process.

The phosphorus removal system consists of one polymerized aluminum sulphate (alum) feed system with three chemical feed pumps discharging into the aeration tanks inlet.

Secondary Clarifiers

Sewage is split amongst two centre feed round clarifiers. Return activated sludge (RAS) collected from clarifiers can be transferred to the aeration tanks or waste activated sludge (WAS) is discharged to the digester.

Tertiary Filters

Effluent from the secondary clarifiers flows by gravity into the influent channel of the tertiary filters. Each filter cell is equipped with an underdrain system supporting the filtration media. Flow passes through the filter media by gravity; impurities such as suspended solids are trapped in the filter media. The filtered water from the effluent channel is discharged over the effluent weir into the influent channel of the UV that conveys the effluent to the UV disinfection process.

Final Effluent Disinfection

Filtered effluent flows into the UV channel where it is disinfected by the UV light before being discharged to the Ausable River. The UV system consists of one bank (2 banks for future flow) each comprised of three modules with four lamps per module within one disinfection channel.

Biosolids Handling

Biosolids are digested aerobically in one of the two aerobic digesters. Digested biosolids are then stored in a glass-fused steel storage tank with a holding capacity of 2,100 cubic meters. Biosolids are land-applied in accordance with the *Nutrient Management Act*.

Standby Power

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

System Facts:

Environmental Compliance Approval (ECA)
Consolidated Linear Infrastructure (CLI) ECA
Rated Capacity
Receiving Water

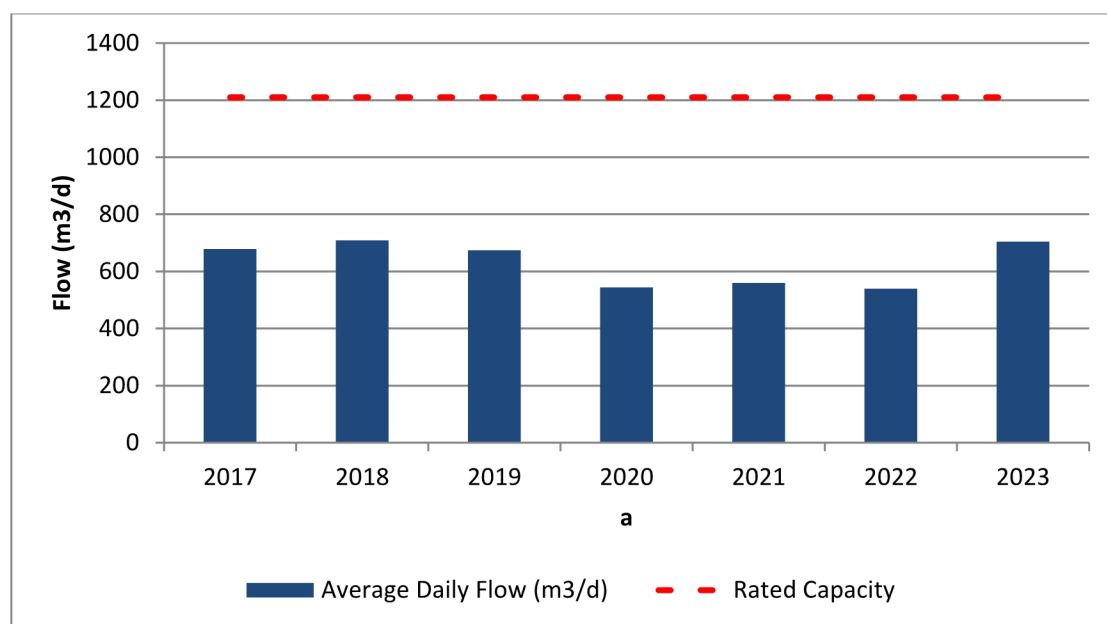
#4151-7DPSHZ (issued April 15, 2008)
 #002-W601 (issued September 26, 2023)
 1,210m³/d
 Ausable River

For 2023, the Alisa Craig WWTP and Wastewater Collection (WWC) System were operated in accordance with the provincial regulations as required in ECA #4151-7DPSHZ and CLI-ECA #002-W601.

Influent Monitoring

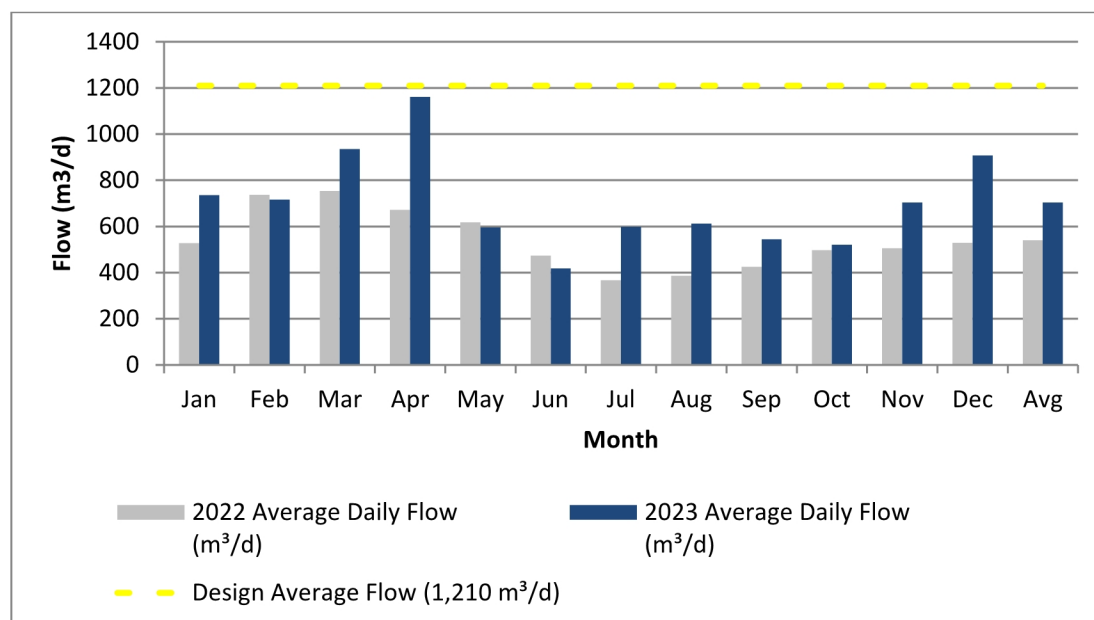
The Alisa Craig WWTP is rated to treat an average daily flow of 1,210 m³. Refer to Figure 1 for a comparison of the average daily flow for the last seven years against the rated capacity of the plant. In 2023, the WWTP was at 58% of the rated capacity. This capacity, however, is based on raw influent capacity as defined in the ECA and does not reflect projected capacity once development is taken into account.

Figure 1: Influent Flows 2017-2023



The raw sewage average daily flow in 2023 was 704 m³/d versus 539 m³/d in 2022. This 30% annual increase was due to wet weather throughout the year. Refer to Figure 2 for 2023 average daily flows by month and the corresponding annual average.

Figure 2: Average Daily Flows by Month



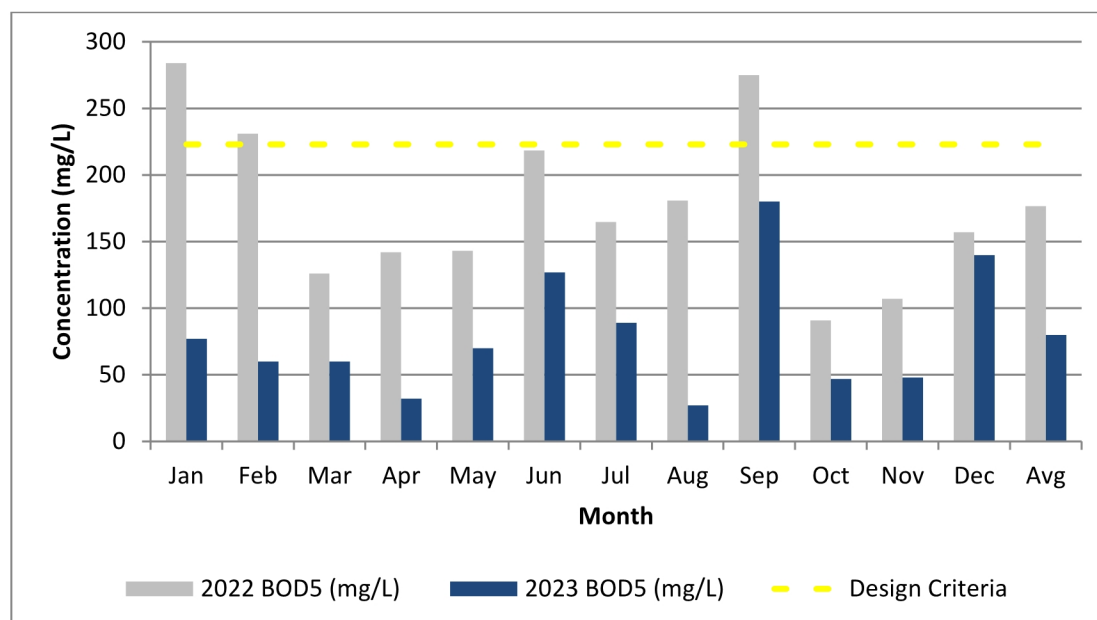
Septage Receiving

The Alisa Craig WWTP did not accept septage waste into the septage tank in the headworks building during 2023. As no septage was received there were no samples obtained to meet requirements as per ECA Condition 9 Table 4.

Influent Data

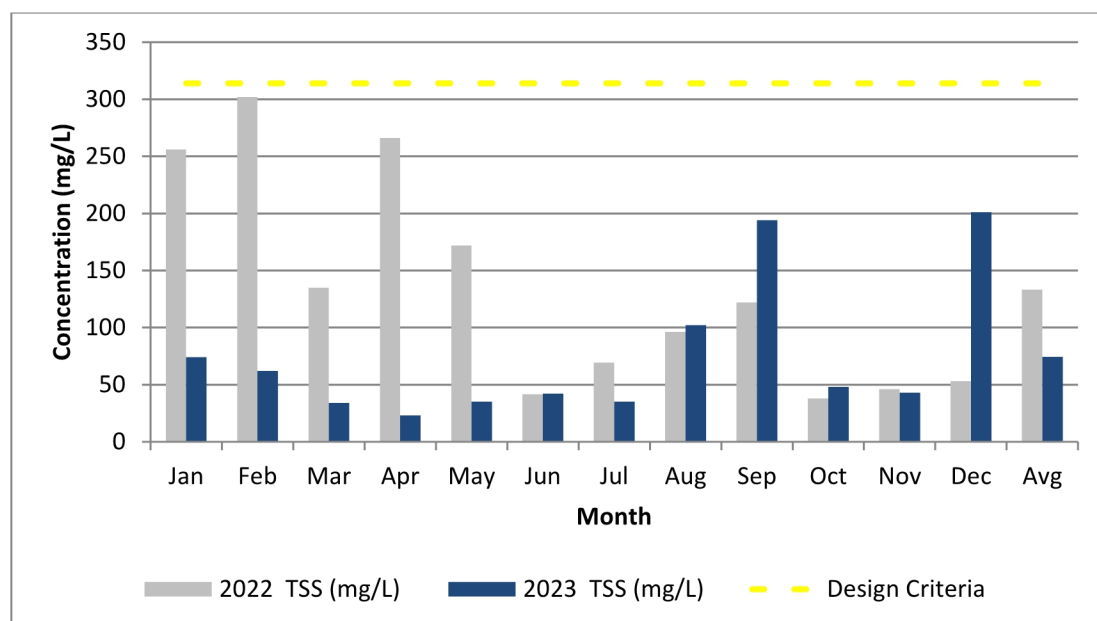
The influent is monitored for Biochemical Oxygen Demand (BOD₅), Total Suspended Solids (TSS), Total Phosphorous (TP) and Total Kjeldahl Nitrogen (TKN) on a monthly basis by means of composite sample. These parameters are measured against the design criteria of the Ailsa Craig WWTP. Values above design concentration can result in ineffective treatment of raw sewage and can lead to limit exceedances. No influent parameters exceeded the design criteria for the Ailsa Craig WWTP in 2023. As well, all parameters were lower than their 2022 averages. This is likely due to increased precipitation as seen in the increased average daily raw flow for 2023.

In 2023, the average raw BOD₅ concentration was 80 mg/L, a 55% decrease from 2022. Refer to Figure 3 for a comparison of 2023 monthly raw BOD₅ concentrations to 2022 concentrations.

Figure 3: Raw BOD₅ Concentrations

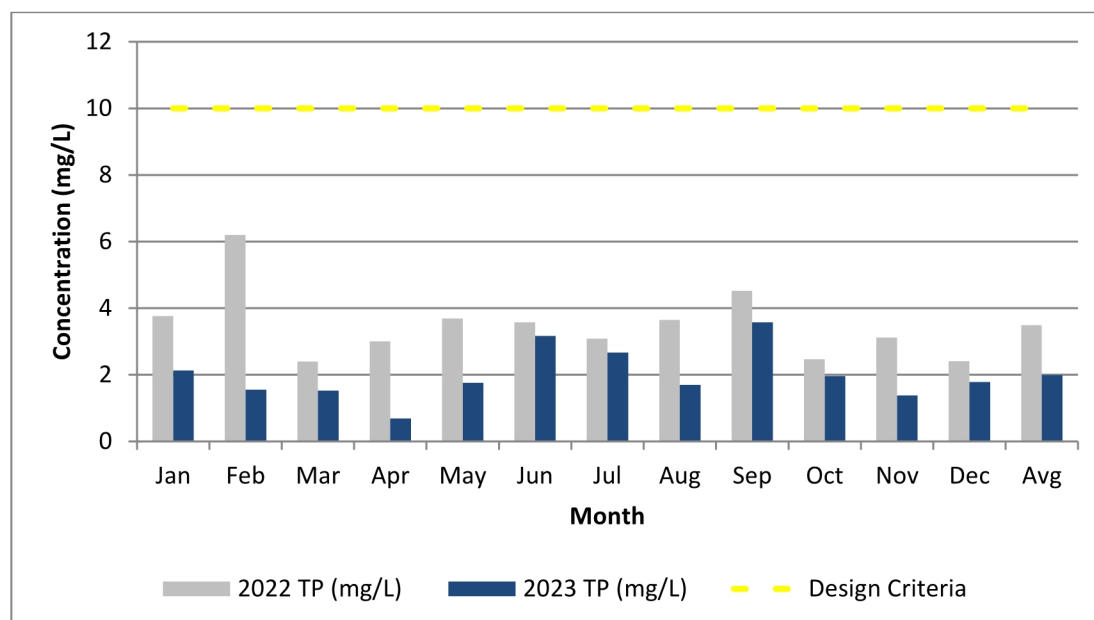
In 2023, the average raw Total Suspended Solids concentration was 74 mg/L, a 44% decrease from 2022. Refer to Figure 4 for a comparison of 2023 monthly raw Total Suspended Solids concentrations to 2022 concentrations.

Figure 4: Raw TSS Concentrations



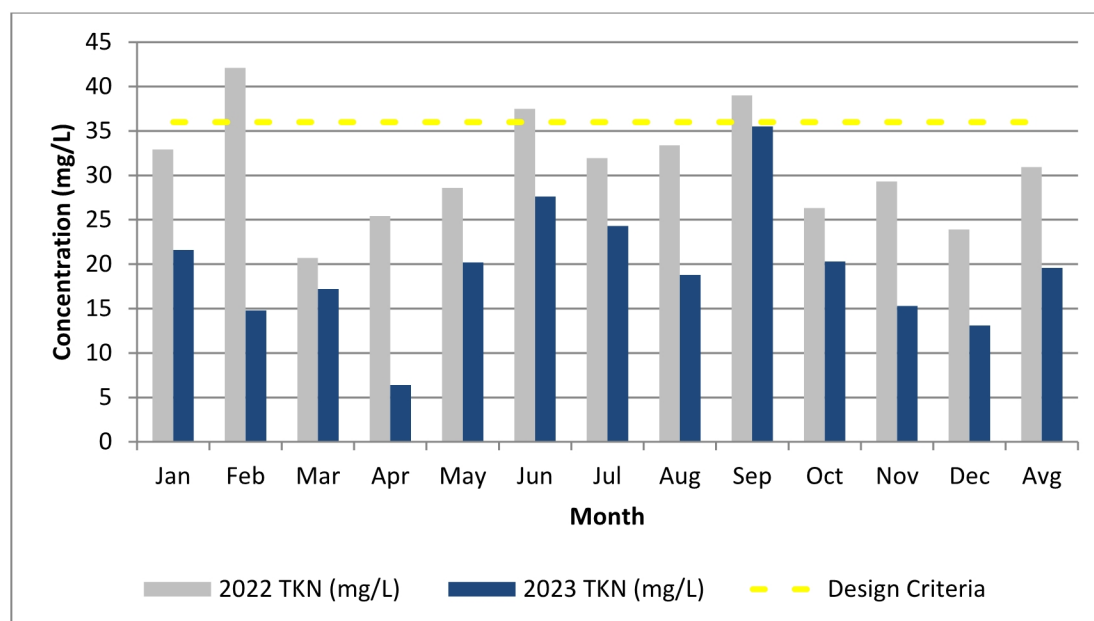
In 2023, the average raw Total Phosphorus concentration is 2 mg/L, a 43% decrease from 2022. Refer to Figure 5 for a comparison of 2023 monthly raw Total Phosphorus concentrations to 2022 concentrations.

Figure 5: Raw TP Concentrations



In 2023, the average raw Total Kjeldahl Nitrogen concentration is 20 mg/L, a 37% decrease from 2022. Refer to Figure 6 for a comparison of 2023 monthly raw Total Kjeldahl Nitrogen concentrations to 2022 concentrations.

Figure 6: Raw TKN Concentrations



Effluent Monitoring

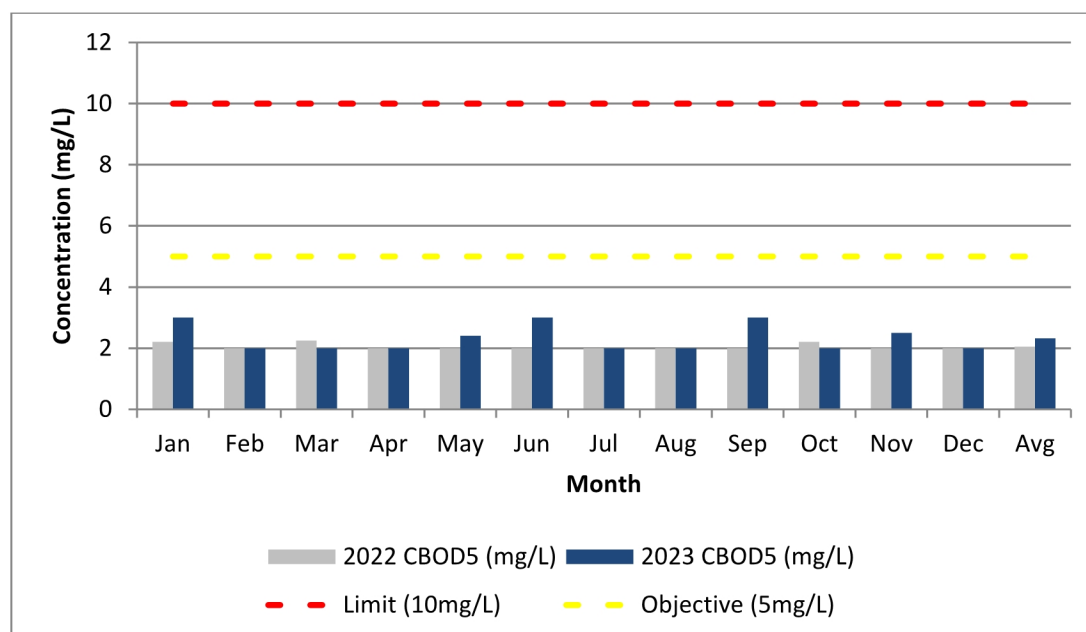
Effluent from the Alisa Craig WWTP is sampled on a weekly basis by composite sample. Effluent is analyzed for Carbonaceous Biochemical Oxygen Demand (CBOD₅), Total Suspended Solids, Total

Phosphorous and Total Ammonia Nitrogen (TAN). Grab samples are collected weekly and tested for E.coli, pH and temperature. For details on objective and limit exceedances refer to 'Summary of Efforts Made to Achieve Design Objectives'.

Comparison to Compliance Limits and Objectives

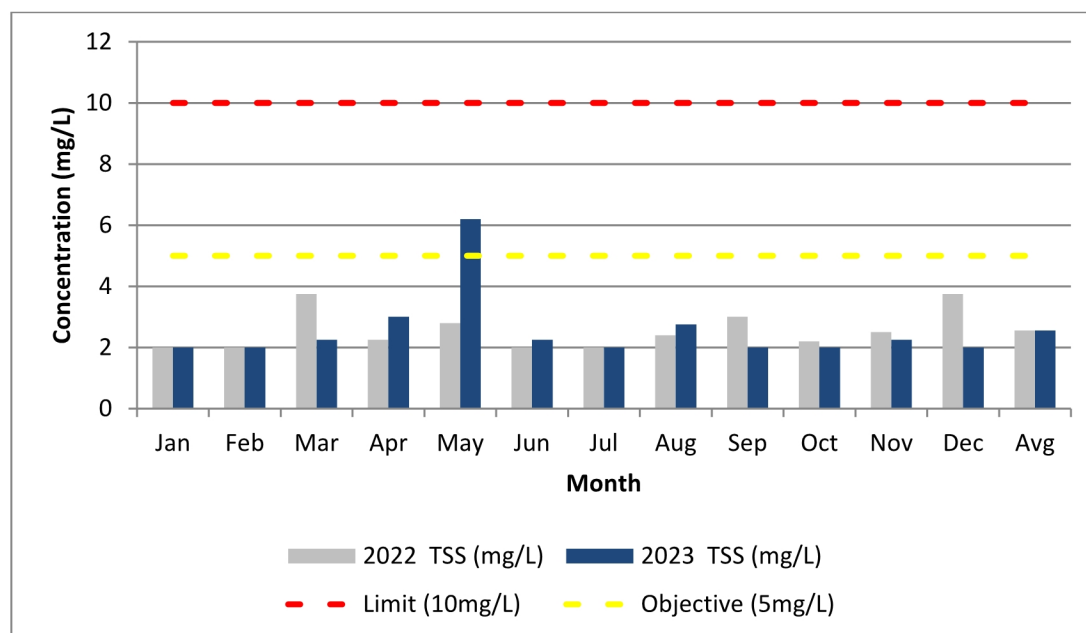
The average monthly effluent (CBOD₅) concentration in 2023 was 2.3 mg/L, a 13% increase from the annual average in 2022. All objectives and limits were met. Refer to Figure 7 for a comparison of 2023 monthly effluent CBOD₅ concentrations to 2022 concentrations.

Figure 7: Effluent CBOD₅ Concentrations



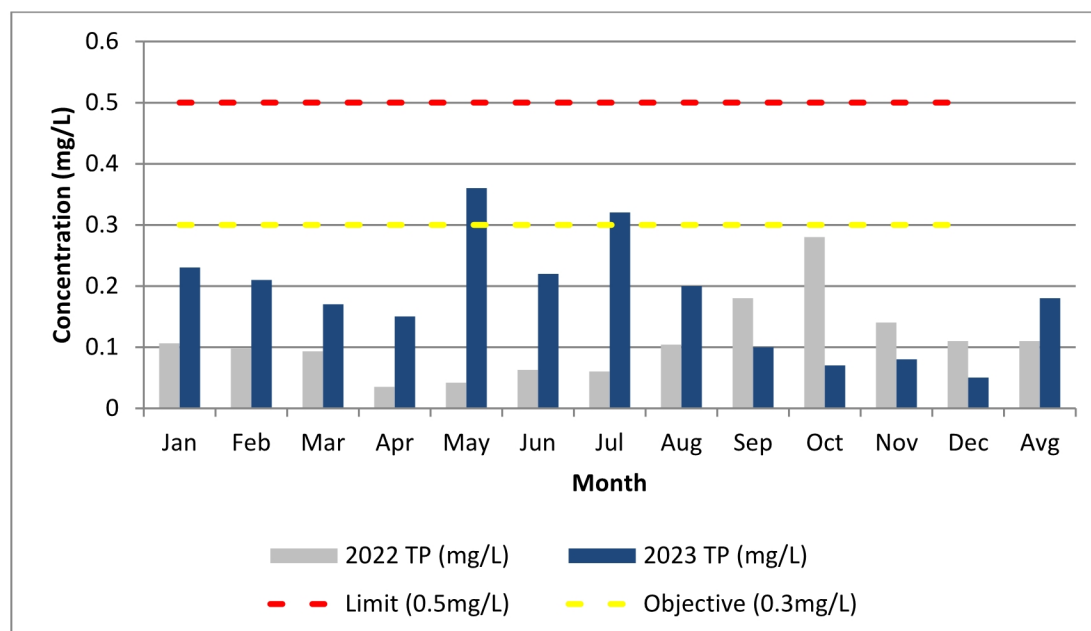
The average monthly effluent Total Suspended Solids concentration in 2023 was 2.6 mg/L. There was no change from the annual 2022 average. There was one objective exceeded in May, 2023, but no limit exceedances. Refer to Figure 8 for a comparison of 2023 monthly effluent Total Suspended Solids concentrations to 2022 concentrations.

Figure 8: Effluent TSS Concentrations



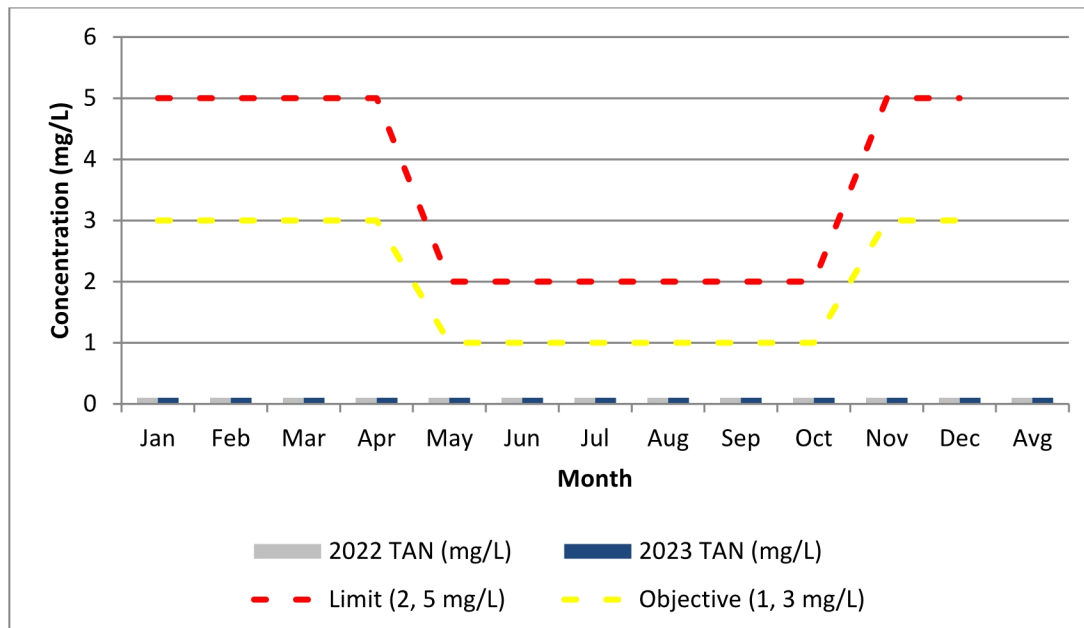
The average monthly effluent Total Phosphorus concentration in 2023 was 0.18 mg/L, a 64% increase from the annual average in 2022. There was one objective exceedance in May 2023, but no limit exceedances. In July 2023, the objective was met as the monthly average with significant digits did not exceed the objective. Refer to Figure 9 for a comparison of 2023 monthly effluent Total Phosphorus concentrations to 2022 concentrations.

Figure 9: Effluent TP Concentrations



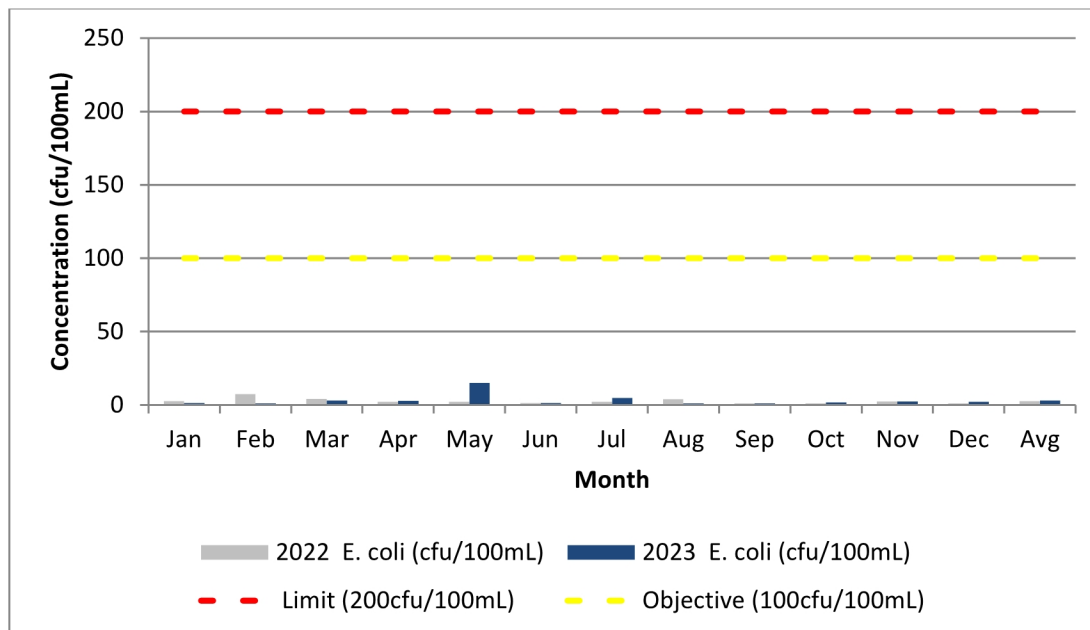
The average monthly effluent Total Ammonia Nitrogen in 2023 was 0.1 mg/L. There was no change from the annual 2022 average. There were no objective or limit exceedances. Refer to Figure 10 for a comparison of 2023 monthly effluent Total Ammonia Nitrogen concentrations to 2022 concentrations.

Figure 10: Effluent TAN Concentrations



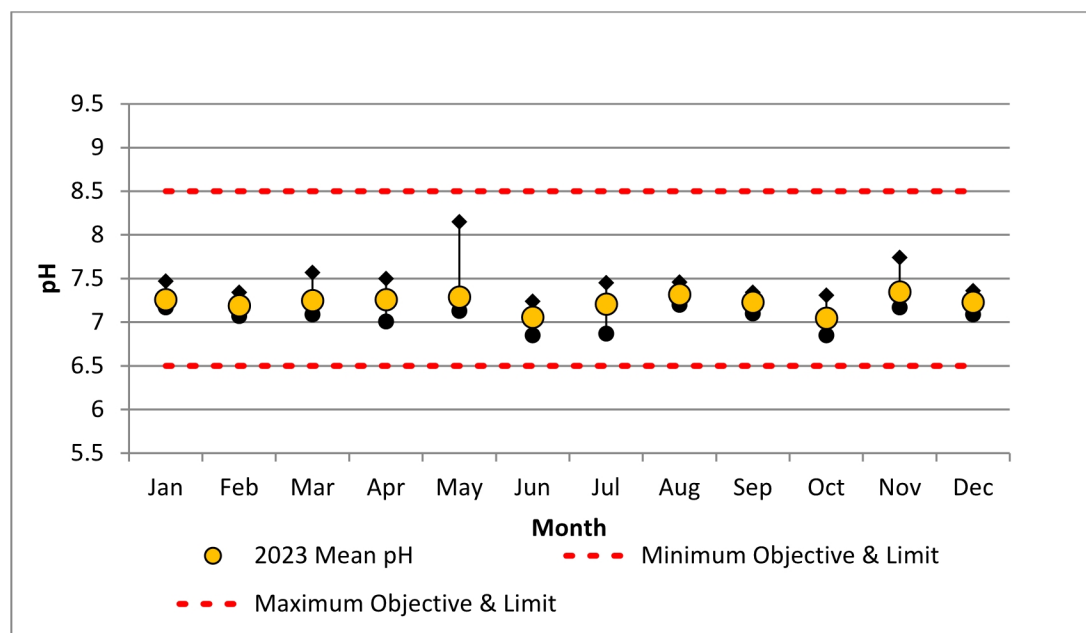
The monthly geometric mean effluent E. coli concentration in 2023 was 3 cfu/100mL, a 22% increase from the annual average in 2022. Refer to Figure 11 for a comparison of 2023 monthly effluent E. coli concentrations to 2022 concentrations.

Figure 11: Effluent E. coli Concentrations



In 2023, pH at the Ailsa Craig WWTP ranged from 6.85 to 8.15. Refer to Figure 12 for a comparison of 2023 monthly effluent pH values to the objectives and limits. The objective and limit for pH is the same.

Figure 12: Effluent pH Values



Operating Problems and Corrective Actions

The largest challenge to the Ailsa Craig WWTP and WWC system is new and proposed development. Although the current facilities are performing well based on the current flows to the plant, the plant's capacity will be strained with new development. Another challenge is aging infrastructure, specifically within the collection system.

Capital and major maintenance recommendations have been submitted by OCWA to the Municipality of North Middlesex to address aging infrastructure and ongoing maintenance requirements for the collection system and WWTP to continue to produce high quality effluent. Items included on the list for 2024 are:

- Additional filter, filtration media and travelling bridge as redundancy measure
- Engineering assessment for hydro optimization
- Replacement of the William Street Pumping Station
- Roof repairs
- Alum and backwash pump replacements
- Upgrade UV control panel

Maintenance Activities

Preventative and corrective maintenance is assigned and monitored within the Workplace Management System (WMS) program. Refer to Appendix A for the maintenance summary for 2023. Refer to Table 1 for a list of repairs and replacements that took place in 2023.

Table 1: Major Maintenance in 2023

Major Maintenance Wastewater
SCADA System Upgrade
Installed new Miltronics and Multiranger for bar screen system
Repaired alum pump
Repaired automatic gate opener
UPS Replacements at New Ontario and Bear Creek Pumping Stations

Effluent Quality Assurance

Effluent quality assurance is evaluated by monitoring parameters and changes throughout the facilities processes. Operational staff monitor plant performance by performing weekly in-house laboratory analysis on raw sewage, mixed liquor and effluent. Tests include: pH, temperature, dissolved oxygen, phosphorus, and Mixed Liquor Suspended Solids. Chemical dosages and wasting rates are also monitored and recorded. Data collected from these tests provides valuable information to the operators to make the appropriate adjustments in the treatment process and take corrective actions before the plant reaches its effluent limits.

Calibration Records

Influent and effluent flow meters and level transmitters were calibrated by Pierce Services & Solutions Inc. on March 14 and 15, 2023. The flow meters met the accuracy tolerance of within 15% of the actual flow rate. Operational staff complete routine pH meter calibrations and verifications. Refer to Appendix B for 2023 calibration records.

Summary of Efforts Made to Achieve Design Objectives

In May, 2023, the Alisa Craig WWTP experienced low raw flows. This resulted in process difficulties and objective exceedances for Total Phosphorus and Total Suspended Solids. To resolve this issue, one the plant's clarifiers was taken offline on June 6, 2023. No further objective exceedances occurred and the clarifier was put back online on September 20, 2023. Refer to Table 2 for a summary of objective exceedances.

Table 2: Summary of Objective Exceedances

Month	Parameter	Concentration (mg/L)	Objective (mg/L)	Issue
May	Total Suspended Solids	6.2	5.0	Low Raw Flows
May	Total Phosphorus	0.36	0.3	Low Raw Flows

Sludge Generation

In 2023 a total of 1462 m³ was generated and hauled from the Alisa Craig WWTP and utilized as a soil conditioner on NASM approved agricultural land. This is a 7% increase compared to the 2022 value of 1364 m³.

Biosolids removal occurred on October 17, 18, and 19, 2023, with a total of 616 m³, 704 m³, and 142 m³ being hauled, respectively. Biosolids were hauled from the Ailsa Craig WWTP and land applied to NASM site #60906.

All biosolids analysis showed that the biosolids met the quality criteria specified in the Ontario Guidelines for Sewage Biosolids Utilization on Agricultural Lands. The biosolids analysis was carried out by SGS Lakefield Research Laboratory.

It is estimated that approximately 1600 m³ of sludge will be produced in 2024.

Complaints

In 2023 there were no complaints were received for the Alisa Craig WWTP or the WWC system.

Bypass, Overflows, Spills and Abnormal Discharge Events

The ECA requires additional daily sampling when a bypass or overflow event occurs. In 2023, there was an overflow event on April 1 due to heavy rain. This event lasted for 31 hours. Refer to Table 3 below for a summary of the event, including sample results.

Table 3: Overflow Event Summary

Type of Event	Date of Event	Reason for Event	Sample Results				
			E. coli (cfu/100ml)	BOD ₅ (mg/L)	TSS (mg/L)	TP (mg/L)	TKN (mg/L)
Overflow	April 1/23	Heavy Rain	840 000	151	260	0.90	2.9

There were no bypasses, spills or abnormal discharge events in 2023.

Summary of Efforts Made to Achieve Conformance with F-5-1

The Municipality of North Middlesex has a separated collection system, therefore it is not required that a Pollution Prevention Control Program be established or maintained.

There are two designed overflows within the collection system: William Street and Bear Creek Pumping Stations. In 2023, one overflow event occurred at the William Street Pumping Station. This pump station has been identified as under-capacity for future growth in the community of Ailsa Craig. To accommodate growth, this pump station will be assessed for design upgrades in 2024. In addition, high velocity flushing and video inspections on 25% of the total collection is conducted each year with corresponding action plans to conduct repairs based on findings. The Municipality of North Middlesex also plans to implement a sewer use bylaw in 2024 to control connections to the collection system. These maintenance activities contribute to the reduction and elimination of future overflow and bypass events.

Appendix A

Maintenance Summary

Workorder Summary Report

Workorder Summary Report							
					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3156924			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	1/1/23 12:00 AM	1/24/23 09:52 AM
3156927			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	1/1/23 12:00 AM	1/5/23 07:26 AM
3156932			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	1/1/23 12:00 AM	1/31/23 07:44 AM
3156937			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	1/1/23 12:00 AM	1/25/23 01:03 PM
3157268	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	1/1/23 12:00 AM	1/17/23 09:47 AM
3157287	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	1/1/23 12:00 AM	1/17/23 09:58 AM
3157306	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	1/1/23 12:00 AM	1/25/23 02:41 PM
3157313	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	1/1/23 12:00 AM	1/25/23 02:41 PM
3157320	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	1/1/23 12:00 AM	1/25/23 02:40 PM
3157549			5848, Ailsa Craig WWTP & CS	Health and Safety	WHMIS/MSDS/NSF Review and Update (1y) 5848	1/1/23 12:00 AM	2/24/23 03:05 PM
3157783			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	1/1/23 12:00 AM	1/30/23 12:46 PM
3180059			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Sewer Backups (1m) 5848	1/1/23 12:00 AM	1/31/23 07:46 AM
3180425			5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	1/1/23 12:00 AM	1/6/23 11:18 AM
3185056	0000248820	SCRUBBER ODOUR CONTROL DRUM	5848, Ailsa Craig WWTP & CS, Process, Sludge Treatment & Handling	Inspection	Quarterly Bird Screen Drum Scrubber inspection (3m) 5848	1/1/23 12:00 AM	1/17/23 11:22 AM
3201995			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	1/6/23 12:00 AM	1/11/23 09:45 AM
3202125			5848, Ailsa Craig WWTP & CS, Facility	Compliance	RP03 Annual Report ECA (1y) 5848	1/6/23 12:00 AM	2/23/23 10:11 AM
3202140	0000248798	SWITCH SELECTOR ALUM FEED	5848, Ailsa Craig WWTP & CS, Process, Process Control & Monitoring	Refurbish/Replace/Repair	Commissioning and install of new P002, and P004 on Ailsa Craig Alum feed system. 5848		2/17/23 11:57 AM
3202757			5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Travelling Bridge Hood Hose Repair, 5848		1/10/23 03:33 PM
3203353			5848, Ailsa Craig WWTP & CS, Facility	Compliance	WSER Quarterly Reporting (3m) 5848	1/12/23 12:00 AM	1/16/23 12:44 PM
3205071			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	1/20/23 12:00 AM	1/31/23 07:45 AM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3205081			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	1/20/23 12:00 AM	1/20/23 01:06 PM
3205569			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	HVAC RTU - Unit 2 Fault, Ailsa Craig 5848		2/1/23 10:12 AM
3211528	0000248757	BLOWER BL2101 AERATION	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Blower BI2101 Aeration Insp/Service (1y) 5848	2/1/23 12:00 AM	2/14/23 10:39 AM
3211700			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Spill Kit Inspect (6m) 5848	2/1/23 12:00 AM	2/1/23 08:02 AM
3211702			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	2/1/23 12:00 AM	2/14/23 10:30 AM
3211705			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	2/1/23 12:00 AM	2/14/23 10:32 AM
3211710			5848, Ailsa Craig WWTP & CS	Health and Safety	MSDS Review - (6m) 5848	2/1/23 12:00 AM	6/27/23 12:19 PM
3211717			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	2/1/23 12:00 AM	2/28/23 02:35 PM
3211722			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	2/1/23 12:00 AM	2/23/23 07:46 AM
3212009	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	2/1/23 12:00 AM	2/17/23 02:12 PM
3212028	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	2/1/23 12:00 AM	2/17/23 02:12 PM
3212047	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	2/1/23 12:00 AM	2/24/23 02:16 PM
3212054	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	2/1/23 12:00 AM	2/24/23 02:17 PM
3212061	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	2/1/23 12:00 AM	2/24/23 02:17 PM
3212402			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	2/1/23 12:00 AM	2/27/23 11:40 AM
3227998			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Sewer Backups (1m) 5848	2/1/23 12:00 AM	2/28/23 02:32 PM
3228150			5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	2/1/23 12:00 AM	2/14/23 10:41 AM
3237054			5848, Ailsa Craig WWTP & CS, Facility	Compliance	MECP Overflow & Bypass Event Summary Report (3m) 5848	2/1/23 12:00 AM	2/24/23 03:25 PM
3244256			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	2/6/23 12:00 AM	3/17/23 02:20 PM
3246228	0000248759	BLOWER BL2103 AERATION	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Removed power monitoring equipment on aeration blower 1,2, and 3 5848		7/4/23 02:12 PM
3246229	0000248759	BLOWER BL2103 AERATION	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Removed power monitoring equipment from blowers 5848		2/17/23 12:36 PM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3246517			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	2/20/23 12:00 AM	3/13/23 11:35 AM
3246527			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	2/20/23 12:00 AM	2/23/23 07:48 AM
3252993	0000248840	METER FLOW FIT 1001 RAW SEWAGE	5848, Ailsa Craig WWTP & CS, Process, Process Control & Monitoring	Calibration	Meter Flow Fit 1001 Raw Sewage Insp/Service (1y) 5848	3/1/23 12:00 AM	3/14/23 02:38 PM
3252998	0000248841	METER FLOW FIT 2301 WASTE	5848, Ailsa Craig WWTP & CS, Process, Process Control & Monitoring	Calibration	Meter Flow Fit 2301 Waste Insp/Service (1y) 5848	3/1/23 12:00 AM	3/14/23 02:40 PM
3253003	0000248842	METER FLOW FIT 5001 FINAL EFFLUENT	5848, Ailsa Craig WWTP & CS, Process, Process Control & Monitoring	Calibration	Meter Flow Fit 5001 Final Effluent Insp/Service (1y) 5848	3/1/23 12:00 AM	3/14/23 02:41 PM
3253157			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	3/1/23 12:00 AM	3/22/23 03:50 PM
3253160			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	3/1/23 12:00 AM	3/1/23 12:33 PM
3253165			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	3/1/23 12:00 AM	3/31/23 01:00 PM
3253170			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	3/1/23 12:00 AM	3/29/23 07:43 AM
3253448	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	3/1/23 12:00 AM	3/16/23 11:23 AM
3253467	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	3/1/23 12:00 AM	3/16/23 11:21 AM
3253486	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	3/1/23 12:00 AM	3/23/23 10:30 AM
3253493	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	3/1/23 12:00 AM	3/23/23 10:30 AM
3253500	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	3/1/23 12:00 AM	3/23/23 10:29 AM
3253507	0000248832	COLLECTOR BRIDGE TRAVELLING	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Bridge Travelling Insp/Service (3m/1y/5y) 5848	3/1/23 12:00 AM	3/17/23 11:36 AM
3253725			5848, Ailsa Craig WWTP & CS	Health and Safety	OG15 Facility OHSA Inspection (1y) 5848	3/1/23 12:00 AM	3/14/23 11:14 AM
3253891			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	3/1/23 12:00 AM	3/27/23 12:11 PM
3254441			5848, Ailsa Craig WWTP & CS	Inspection	Supervisor Spot Check North Middlesex Facilities (3m) - 5848/1286/6001	3/1/23 12:00 AM	4/3/23 10:05 AM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3270944			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Sewer Backups (1m) 5848	3/1/23 12:00 AM	3/31/23 12:55 PM
3271137			5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	3/1/23 12:00 AM	3/1/23 12:37 PM
3287690			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	3/3/23 12:00 AM	3/14/23 10:12 AM
3288068			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	3/6/23 12:00 AM	3/23/23 11:44 AM
3289445			5848, Ailsa Craig WWTP & CS, Facility	Refurbish/Replace/Repair	Return Exhaust Fan HVAC Unit Repair, 5848		4/3/23 10:08 AM
3290142			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	3/20/23 12:00 AM	3/31/23 12:58 PM
3291574			5848, Ailsa Craig WWTP & CS, Process, Headworks	Refurbish/Replace/Repair	Replacement Miltronics Bar Screen, 5848	5/9/23 09:30 AM	6/27/23 12:32 PM
3297994			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	4/1/23 12:00 AM	4/20/23 08:06 AM
3297997			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	4/1/23 12:00 AM	4/18/23 03:36 PM
3298002			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	4/1/23 12:00 AM	5/2/23 07:45 AM
3298007			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	4/1/23 12:00 AM	5/2/23 07:47 AM
3298312	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	4/1/23 12:00 AM	4/20/23 01:07 PM
3298331	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	4/1/23 12:00 AM	4/20/23 01:26 PM
3298350	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	4/1/23 12:00 AM	4/28/23 03:58 PM
3298357	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	4/1/23 12:00 AM	4/28/23 03:56 PM
3298364	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	4/1/23 12:00 AM	4/28/23 03:56 PM
3298553			5848, Ailsa Craig WWTP & CS	Compliance	OG35 FEP Review (1y) 5848	4/1/23 12:00 AM	6/27/23 12:24 PM
3298804			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	4/1/23 12:00 AM	5/2/23 07:47 AM
3317599			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Sewer Backups (1m) 5848	4/1/23 12:00 AM	5/2/23 07:49 AM
3317905			5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	4/1/23 12:00 AM	4/20/23 01:17 PM
3322320	0000248820	SCRUBBER ODOUR CONTROL DRUM	5848, Ailsa Craig WWTP & CS, Process, Sludge Treatment & Handling	Inspection	Quarterly Bird Screen Drum Scrubber inspection (3m) 5848	4/1/23 12:00 AM	5/10/23 01:20 PM
3337885			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	4/3/23 12:00 AM	4/20/23 01:25 PM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3338506			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	4/6/23 12:00 AM	4/21/23 09:52 AM
3339511			5848, Ailsa Craig WWTP & CS, Facility	Compliance	WSER Quarterly Reporting (3m) 5848	4/12/23 12:00 AM	4/24/23 03:18 PM
3340733			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	4/20/23 12:00 AM	5/10/23 01:27 PM
3341107			5848, Ailsa Craig WWTP & CS, Facility	Inspection	HVAC Maintenance 5848 (6m)	4/23/23 12:00 AM	8/1/23 10:22 AM
3341367			5848, Ailsa Craig WWTP & CS, Process	Refurbish/Replace/Repair	Automatic Gate Repair & Maintenance, 5848		8/31/23 02:15 PM
3346942	0000248782	BLOWER BL6102 DIGESTER 02	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Blower BI6102 Digester 02 Insp/Service (1y) 5848	5/1/23 12:00 AM	7/6/23 02:14 PM
3346955	0000248830	PUMP CENT P6102 SLUDGE TRANSFER	5848, Ailsa Craig WWTP & CS, Process, Sludge Treatment & Handling	Refurbish/Replace/Repair	Pump Cent P6102 Sludge Transfer Insp/Service (1y) 5848	5/1/23 12:00 AM	5/10/23 01:22 PM
3346956	0000248823	PUMP CENT P6103 SUPERNATE	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Pump Cent P6103 Supernate Insp/Service (1y) 5848	5/1/23 12:00 AM	5/10/23 01:23 PM
3346957	0000248824	PUMP CENT P6104 SUPERNATE	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Pump Cent P6104 Supernate Insp/Service (1y) 5848	5/1/23 12:00 AM	5/10/23 01:25 PM
3346958	0000248814	PUMP CENT SCUM	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Pump Cent Scum Insp/Service (1y) 5848	5/1/23 12:00 AM	5/10/23 01:26 PM
3346959	0000248799	PUMP P7002 ALUM	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Pump Alum Route Insp/Service (1y) 5848	5/1/23 12:00 AM	6/2/23 03:11 PM
3346965	0000248801	PUMP P7003 ALUM	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Pump Alum Route Insp/Service (1y) 5848	5/1/23 12:00 AM	6/2/23 03:12 PM
3346971	0000248800	PUMP P7004 ALUM	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Pump Alum Route Insp/Service (1y) 5848	5/1/23 12:00 AM	6/2/23 03:13 PM
3347155			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	5/1/23 12:00 AM	5/16/23 09:23 AM
3347158			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	5/1/23 12:00 AM	5/3/23 07:31 AM
3347163			5848, Ailsa Craig WWTP & CS	Inspection	Air Relief Chamber Inspection (6m) 5848	5/1/23 12:00 AM	5/16/23 09:19 AM
3347171			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	5/1/23 12:00 AM	5/31/23 03:56 PM
3347176			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	5/1/23 12:00 AM	6/5/23 07:43 AM
3347454	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	5/1/23 12:00 AM	5/17/23 01:13 PM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3347473	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	5/1/23 12:00 AM	5/17/23 01:19 PM
3347492	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Refurbish/Replace/Repair	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	5/1/23 12:00 AM	5/30/23 03:10 PM
3347512	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	5/1/23 12:00 AM	5/30/23 03:18 PM
3347519	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Refurbish/Replace/Repair	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	5/1/23 12:00 AM	5/30/23 03:19 PM
3347989			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	5/1/23 12:00 AM	5/30/23 03:22 PM
3348432			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	5/1/23 12:00 AM	5/17/23 01:32 PM
3363002			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Wet Well Inspection (6m) 5848	5/1/23 12:00 AM	5/30/23 03:22 PM
3365328			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Sewer Backups (1m) 5848	5/1/23 12:00 AM	5/31/23 03:48 PM
3365509			5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	5/1/23 12:00 AM	5/2/23 07:52 AM
3374953			5848, Ailsa Craig WWTP & CS, Facility	Compliance	MECP Overflow & Bypass Event Summary Report (3m) 5848	5/1/23 12:00 AM	5/11/23 02:36 PM
3383911			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	5/6/23 12:00 AM	5/24/23 10:29 AM
3386131			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	5/20/23 12:00 AM	6/6/23 12:53 PM
3392956	0000248836	GEAR DRIVE TRAVELLING BRIDGE	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Gear Drive Travelling Bridge Insp/Service (1y) 5848	6/1/23 12:00 AM	6/2/23 03:15 PM
3392959	0000248838	GEAR DRIVE TRAVELLING BRIDGE	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Gear Drive Travelling Bridge Insp/Service (1y) 5848	6/1/23 12:00 AM	6/2/23 03:16 PM
3392962	0000248835	PUMP CENT BACKWASH TRAVELLING BRIDGE	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Pump Cent Backwash Travelling Bridge Insp/Service (1y) 5848	6/1/23 12:00 AM	6/2/23 03:17 PM
3392963	0000248829	PUMP CENT P6101 SLUDGE TRANSFER	5848, Ailsa Craig WWTP & CS, Process, Sludge Treatment & Handling	Refurbish/Replace/Repair	Pump Cent P6101 Sludge Transfer Insp/Service (1y) 5848	6/1/23 12:00 AM	6/6/23 12:59 PM
3392964	0000248834	PUMP CENT SKIMMER TRAVELLING BRIDGE	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Pump Cent Skimmer Travelling Bridge Insp/Service (1y) 5848	6/1/23 12:00 AM	6/2/23 03:17 PM
3393139			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	6/1/23 12:00 AM	6/14/23 12:38 PM
3393142			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	6/1/23 12:00 AM	6/8/23 07:40 AM
3393147			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	6/1/23 12:00 AM	6/30/23 10:44 AM
3393152			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	6/1/23 12:00 AM	6/30/23 10:43 AM
3393471	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	6/1/23 12:00 AM	6/6/23 12:55 PM
3393490	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	6/1/23 12:00 AM	6/6/23 12:57 PM
3393509	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	6/1/23 12:00 AM	6/14/23 03:45 PM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3393516	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	6/1/23 12:00 AM	6/14/23 03:46 PM
3393523	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	6/1/23 12:00 AM	6/14/23 03:45 PM
3393530	0000248832	COLLECTOR BRIDGE TRAVELLING	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Bridge Travelling Insp/Service (3m/1y/5y) 5848	6/1/23 12:00 AM	6/8/23 07:45 AM
3393858			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	6/1/23 12:00 AM	6/30/23 10:42 AM
3394277			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	6/1/23 12:00 AM	6/5/23 01:52 PM
3394457			5848, Ailsa Craig WWTP & CS	Inspection	Supervisor Spot Check North Middlesex Facilities (3m) - 5848/1286/6001	6/1/23 12:00 AM	6/1/23 01:59 PM
3412679			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Sewer Backups (1m) 5848	6/1/23 12:00 AM	6/30/23 10:40 AM
3412850			5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	6/1/23 12:00 AM	6/8/23 07:42 AM
3431327			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	6/6/23 12:00 AM	6/13/23 12:01 PM
3434217			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	HVAC RTU Unit 1 Compressor Fault, Replacement 5848		6/27/23 12:30 PM
3434523			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	6/20/23 12:00 AM	7/5/23 03:30 PM
3435661			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	HVAC RTU Unit 1 Compressor Replacement 5848		6/27/23 12:31 PM
3441742	0000248826	PUMP CENT P6106 SUPERNATE	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Pump Cent P6106 Supernate Insp/Service (1y) 5848	7/1/23 12:00 AM	7/6/23 11:57 AM
3441743	0000248805	PUMP SUBMERSIBLE BACKWASH EFFLUENT PUMP	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Pump Subm Backwash Effluent Pump Insp/Service (1y) 5848	7/1/23 12:00 AM	7/6/23 11:59 AM
3441752	0000248806	PUMP SUBMERSIBLE BACKWASH EFFLUENT PUMP	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Pump Subm Backwash Effluent Pump Insp/Service (1y) 5848	7/1/23 12:00 AM	7/6/23 12:01 PM
3441761	0000248811	PUMP SUBMERSIBLE P-2301 CENT RAS	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Pump Subm Cent RAS Insp/Service (1y) 5848	7/1/23 12:00 AM	7/18/23 01:28 PM
3441770	0000248812	PUMP SUBMERSIBLE P-2302 CENT RAS	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Pump Subm Cent RAS Insp/Service (1y) 5848	7/1/23 12:00 AM	7/6/23 12:10 PM
3441945			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	7/1/23 12:00 AM	7/11/23 11:28 AM
3441948			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	7/1/23 12:00 AM	7/11/23 08:30 AM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3441953			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	7/1/23 12:00 AM	8/1/23 07:55 AM
3441958			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	7/1/23 12:00 AM	7/26/23 12:18 PM
3442259	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	7/1/23 12:00 AM	7/11/23 12:59 PM
3442278	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	7/1/23 12:00 AM	7/11/23 12:57 PM
3442297	0000248785	PUMP SUBMERSIBLE EFFLUENT WATER PUMP 01	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Pump Subm Effluent Water Pump 01 Insp/Service (1y) 5848	7/1/23 12:00 AM	7/6/23 12:04 PM
3442306	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	7/1/23 12:00 AM	7/14/23 07:33 AM
3442313	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	7/1/23 12:00 AM	7/14/23 07:31 AM
3442320	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	7/1/23 12:00 AM	7/14/23 07:28 AM
3442684			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	7/1/23 12:00 AM	8/1/23 07:48 AM
3443090			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	7/1/23 12:00 AM	7/11/23 11:33 AM
3460084			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Sewer Backups (1m) 5848	7/1/23 12:00 AM	8/1/23 07:52 AM
3460259			5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	7/1/23 12:00 AM	7/6/23 12:08 PM
3464137	0000248820	SCRUBBER ODOUR CONTROL DRUM	5848, Ailsa Craig WWTP & CS, Process, Sludge Treatment & Handling	Inspection	Quarterly Bird Screen Drum Scrubber inspection (3m) 5848	7/1/23 12:00 AM	7/6/23 12:06 PM
3479784			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	7/6/23 12:00 AM	7/25/23 01:58 PM
3481449			5848, Ailsa Craig WWTP & CS, Facility	Compliance	WSER Quarterly Reporting (3m) 5848	7/12/23 12:00 AM	7/25/23 01:07 PM
3482591			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	7/20/23 12:00 AM	8/28/23 02:03 PM
3489023	0000248759	BLOWER BL2103 AERATION	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Blower BI2103 Aeration Insp/Service (1y) 5848	8/1/23 12:00 AM	8/18/23 03:43 PM
3489036	0000248780	BLOWER BL6101 DIGESTER 01	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Blower BI6101 Digester 01 Insp/Service (1y) 5848	8/1/23 12:00 AM	8/18/23 03:44 PM
3489049	0000248779	DRIVE CLASSIFIER	5848, Ailsa Craig WWTP & CS, Process, Headworks	Refurbish/Replace/Repair	Drive Classifier Insp/Service (1y) 5848	8/1/23 12:00 AM	8/22/23 11:28 AM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3489052	0000248777	DRIVE SPEED REDUCTION AGITATOR	5848, Ailsa Craig WWTP & CS, Process, Headworks	Refurbish/Replace/Repair	Drive Speed Reduction Agitator Insp/Service (1y) 5848	8/1/23 12:00 AM	8/22/23 11:31 AM
3489055	0000248786	PUMP SUBMERSIBLE EFFLUENT WATER PUMP 02	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Pump Subm Effluent Water Pump 02 Insp/Service (1y) 5848	8/1/23 12:00 AM	8/22/23 11:16 AM
3489064	0000248820	SCRUBBER ODOUR CONTROL DRUM	5848, Ailsa Craig WWTP & CS, Process, Sludge Treatment & Handling	Refurbish/Replace/Repair	Scrubber Odour Control Drum Insp/Service (1y) 5848	8/1/23 12:00 AM	8/22/23 11:24 AM
3489259			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Spill Kit Inspect (6m) 5848	8/1/23 12:00 AM	8/22/23 09:51 AM
3489261			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	8/1/23 12:00 AM	8/10/23 10:02 AM
3489264			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	8/1/23 12:00 AM	8/8/23 07:53 AM
3489269			5848, Ailsa Craig WWTP & CS	Health and Safety	MSDS Review - (6m) 5848	8/1/23 12:00 AM	10/3/23 04:11 PM
3489276			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	8/1/23 12:00 AM	9/1/23 10:08 AM
3489281			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	8/1/23 12:00 AM	8/30/23 02:54 PM
3489613	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	8/1/23 12:00 AM	8/21/23 03:00 PM
3489632	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	8/1/23 12:00 AM	8/22/23 09:48 AM
3489651	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	8/1/23 12:00 AM	8/25/23 03:54 PM
3489658	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	8/1/23 12:00 AM	8/25/23 03:56 PM
3489665	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	8/1/23 12:00 AM	8/25/23 03:53 PM
3489977			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	8/1/23 12:00 AM	8/28/23 01:56 PM
3490370			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	8/1/23 12:00 AM	8/21/23 02:58 PM
3505980			5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	8/1/23 12:00 AM	8/8/23 08:03 AM
3514782			5848, Ailsa Craig WWTP & CS, Facility	Compliance	MECP Overflow & Bypass Event Summary Report (3m) 5848	8/1/23 12:00 AM	9/11/23 11:50 AM
3523308			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	8/6/23 12:00 AM	9/7/23 01:53 PM
3525856			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	8/20/23 12:00 AM	9/11/23 01:06 PM
3526909	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Refurbish/Replace/Repair	Sewage Treatment Float Purchase,5848	9/15/23 10:45 AM	12/5/23 11:06 AM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3527679	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Refurbish/Replace/Repair	RTU #2 HVAC Exhaust/Supply Unit Bearing,Shaft Failure,5848		11/5/23 10:20 AM
3533070	0000248817	PUMP CENT CHOPPER	5848, Ailsa Craig WWTP & CS, Process, Sludge Treatment & Handling	Refurbish/Replace/Repair	Pump Cent Chopper Insp/Service (1y) 5848	9/1/23 12:00 AM	9/5/23 12:49 PM
3533280			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	9/1/23 12:00 AM	9/6/23 02:18 PM
3533283			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	9/1/23 12:00 AM	9/5/23 12:35 PM
3533288			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	9/1/23 12:00 AM	9/29/23 05:05 PM
3533293			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	9/1/23 12:00 AM	9/29/23 05:01 PM
3533655	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	9/1/23 12:00 AM	9/11/23 01:00 PM
3533674	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	9/1/23 12:00 AM	9/11/23 01:02 PM
3533693	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	9/1/23 12:00 AM	10/4/23 08:49 AM
3533700	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	9/1/23 12:00 AM	10/5/23 07:37 AM
3533707	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	9/1/23 12:00 AM	10/5/23 07:35 AM
3533714	0000248832	COLLECTOR BRIDGE TRAVELLING	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Bridge Travelling Insp/Service (3m/1y/5y) 5848	9/1/23 12:00 AM	9/15/23 09:23 AM
3534345			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	9/1/23 12:00 AM	9/29/23 04:57 PM
3534743			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	9/1/23 12:00 AM	9/11/23 01:04 PM
3534887			5848, Ailsa Craig WWTP & CS	Inspection	Supervisor Spot Check Quarterly 1286,5848, 6001	9/1/23 12:00 AM	10/3/23 04:18 PM
3551740	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	9/1/23 12:00 AM	9/5/23 12:43 PM
3563071	0000248966	PANEL ALARM/DIALER BEAR CREEK P.S.	5848, Ailsa Craig WWTP & CS	Inspection	Alarm Dialer Bear Creek P.S. Testing (1m) 5848	9/1/23 12:00 AM	9/29/23 05:02 PM
3563076	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Inspection	Alarm Dialer Ailsa Craig WCPC Testing (1m) 5848	9/1/23 12:00 AM	9/29/23 05:03 PM
3563081	0000248965	PANEL ALARM/DIALER NEW ONTARIO P.S.	5848, Ailsa Craig WWTP & CS	Inspection	Alarm Dialer New Ontario P.S. Testing (1m) 5848	9/1/23 12:00 AM	9/29/23 05:04 PM
3571322			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	9/6/23 12:00 AM	9/18/23 11:35 AM
3574157			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	9/20/23 12:00 AM	10/10/23 02:49 PM
3574207			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Ailsa Craig WWPCP SCADA Upgrade, 5848		10/3/23 04:20 PM
3581712	0000248758	BLOWER BL2102 AERATION	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Blower Bi2102 Aeration Insp/Service (1y) 5848	10/1/23 12:00 AM	10/27/23 03:45 PM
3581725	0000248787	METER PRESSURE EFFLUENT WATER TANK	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Meter Press Effluent Water Tank Insp(1y) 5848	10/1/23 12:00 AM	10/27/23 03:51 PM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3582090			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	10/1/23 12:00 AM	10/23/23 02:01 PM
3582093			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	10/1/23 12:00 AM	10/6/23 12:33 PM
3582098			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	10/1/23 12:00 AM	11/1/23 03:38 PM
3582103			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	10/1/23 12:00 AM	11/1/23 03:39 PM
3582449	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	10/1/23 12:00 AM	10/12/23 02:57 PM
3582468	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	10/1/23 12:00 AM	10/12/23 03:00 PM
3582487	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	10/1/23 12:00 AM	10/27/23 03:49 PM
3582494	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	10/1/23 12:00 AM	10/27/23 03:49 PM
3582501	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	10/1/23 12:00 AM	10/27/23 03:48 PM
3582977			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	10/1/23 12:00 AM	11/1/23 03:39 PM
3583410			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	10/1/23 12:00 AM	10/12/23 03:03 PM
3600726	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	10/1/23 12:00 AM	10/4/23 12:47 PM
3604730	0000248820	SCRUBBER ODOUR CONTROL DRUM	5848, Ailsa Craig WWTP & CS, Process, Sludge Treatment & Handling	Inspection	Quarterly Bird Screen Drum Scrubber inspection (3m) 5848	10/1/23 12:00 AM	10/6/23 01:54 PM
3612954	0000248966	PANEL ALARM/DIALER BEAR CREEK P.S.	5848, Ailsa Craig WWTP & CS	Inspection	Alarm Dialer Bear Creek P.S. Testing (1m) 5848	10/1/23 12:00 AM	10/16/23 02:02 PM
3612959	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Inspection	Alarm Dialer Ailsa Craig WCPC Testing (1m) 5848	10/1/23 12:00 AM	10/12/23 03:04 PM
3612964	0000248965	PANEL ALARM/DIALER NEW ONTARIO P.S.	5848, Ailsa Craig WWTP & CS	Inspection	Alarm Dialer New Ontario P.S. Testing (1m) 5848	10/1/23 12:00 AM	10/12/23 03:06 PM
3620564			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	VFD Replacement William St. SPS Pump #2, 5848	10/23/23 08:00 AM	11/5/23 10:18 AM
3621220			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	10/6/23 12:00 AM	10/17/23 03:34 PM
3622689	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Compliance	WSER Quarterly Reporting (3m) 5848	10/12/23 12:00 AM	10/20/23 05:08 PM
3622852	0000248829	PUMP CENT P6101 SLUDGE TRANSFER	5848, Ailsa Craig WWTP & CS, Process, Sludge Treatment & Handling	Refurbish/Replace/Repair	Pulled pump, removed debris installed new chain and put back in service. 5848		10/13/23 08:31 AM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3622853			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	replaced two ballasts and lamps in lunch room, office exterior light, blower room high bay 5848		10/13/23 08:39 AM
3623727	0000248965	PANEL ALARM/DIALER NEW ONTARIO P.S.	5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	replaced faulty milltronics JB, replaced faulty High High float. 5848		10/19/23 08:05 AM
3623786			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	10/20/23 12:00 AM	11/14/23 12:19 PM
3624023	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Inspection	HVAC Maintenance 5848 (6m)	10/23/23 12:00 AM	1/4/24 08:54 AM
3630228			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	11/1/23 12:00 AM	11/30/23 07:51 AM
3630231			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	11/1/23 12:00 AM	11/20/23 02:04 PM
3630236			5848, Ailsa Craig WWTP & CS	Inspection	Air Relief Chamber Inspection (6m) 5848	11/1/23 12:00 AM	11/3/23 02:29 PM
3630244			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	11/1/23 12:00 AM	12/1/23 07:46 AM
3630249			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	11/1/23 12:00 AM	11/30/23 07:53 AM
3630559	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	11/1/23 12:00 AM	11/23/23 07:41 AM
3630578	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Refurbish/Replace/Repair	Engine Diesel Bear Creek Insp/Service (1y) 5848	11/1/23 12:00 AM	11/23/23 07:42 AM
3630617	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	11/1/23 12:00 AM	11/23/23 07:52 AM
3630636	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Refurbish/Replace/Repair	Engine Diesel New Ont Ps Insp/Service (1y) 5848	11/1/23 12:00 AM	11/23/23 07:57 AM
3630675	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	11/1/23 12:00 AM	11/30/23 07:48 AM
3630682	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Refurbish/Replace/Repair	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	11/1/23 12:00 AM	11/30/23 07:49 AM
3630702	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	11/1/23 12:00 AM	11/30/23 07:47 AM
3631044			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	11/1/23 12:00 AM	11/30/23 07:56 AM
3631438			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	11/1/23 12:00 AM	11/17/23 03:24 PM
3643340			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Wet Well Inspection (6m) 5848	11/1/23 12:00 AM	11/3/23 02:30 PM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3646047	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	11/1/23 12:00 AM	11/7/23 07:32 AM
3654461	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Compliance	MECP Overflow & Bypass Event Summary Report (3m) 5848	11/1/23 12:00 AM	12/4/23 03:03 PM
3655863	0000248966	PANEL ALARM/DIALER BEAR CREEK P.S.	5848, Ailsa Craig WWTP & CS	Inspection	Alarm Dialer Bear Creek P.S. Testing (1m) 5848	11/1/23 12:00 AM	11/23/23 08:00 AM
3655868	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Inspection	Alarm Dialer Ailsa Craig WCPC Testing (1m) 5848	11/1/23 12:00 AM	11/23/23 08:07 AM
3655873	0000248965	PANEL ALARM/DIALER NEW ONTARIO P.S.	5848, Ailsa Craig WWTP & CS	Inspection	Alarm Dialer New Ontario P.S. Testing (1m) 5848	11/1/23 12:00 AM	11/23/23 08:04 AM
3662381			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	11/6/23 12:00 AM	11/21/23 12:23 PM
3665146			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Communication Failure William St. SPS,5848		12/5/23 10:59 AM
3665147			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Faulty Float New Ontario Rd SPS,5848		12/5/23 11:00 AM
3665186			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	11/20/23 12:00 AM	12/1/23 02:04 PM
3666804	0000248812	PUMP SUBMERSIBLE P-2302 CENT RAS	5848, Ailsa Craig WWTP & CS, Process, Secondary Treatment	Refurbish/Replace/Repair	Pulled pump 2 and replaced with new. 5848		11/30/23 11:28 AM
3671195	0000248771	BLOWER GRIT REMOVAL	5848, Ailsa Craig WWTP & CS, Process, Headworks	Refurbish/Replace/Repair	Blower Grit Removal Insp/Service (1y) 5848	12/1/23 12:00 AM	12/19/23 12:47 PM
3671392			5848, Ailsa Craig WWTP & CS	Refurbish/Replace/Repair	Chemical System Flushing (1m) 5848	12/1/23 12:00 AM	12/28/23 09:27 AM
3671395			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Insp/Calib (1m) 5848	12/1/23 12:00 AM	12/18/23 02:50 PM
3671400			5848, Ailsa Craig WWTP & CS	Inspection	Daily O&M Activities Ailsa Craig WWTP & CS (1m) 5848	12/1/23 12:00 AM	12/28/23 09:30 AM
3671405			5848, Ailsa Craig WWTP & CS	Inspection	TPM Insp/Maint Ailsa Craig WWTP & CS (1m) 5848	12/1/23 12:00 AM	12/28/23 09:23 AM
3671773	0000241371	ENGINE DIESEL 01 BACKUP POWER BEAR CREEK PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel Bear Creek Insp/Test (1m) 5848	12/1/23 12:00 AM	12/19/23 12:38 PM
3671792	0000241372	ENGINE DIESEL 02 BACKUP POWER NEW ONT PS	5848, Ailsa Craig WWTP & CS, Facility, Power Generation	Inspection	Engine Diesel New Ont PS Insp/Test (1m) 5848	12/1/23 12:00 AM	12/19/23 12:40 PM
3671811	0000248793	UV LIGHT BANK 02	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 02 Insp/Clean/Service (1m/1y) 5848	12/1/23 12:00 AM	12/28/23 09:24 AM
3671818	0000248794	UV LIGHT BANK 03	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 03 Insp/Clean/Service (1m/1y) 5848	12/1/23 12:00 AM	12/28/23 09:25 AM

					Workorder Details		
WO #	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3671825	0000248795	UV LIGHT BANK 01	5848, Ailsa Craig WWTP & CS, Process, Disinfection	Inspection	Uv Light Bank 01 Insp/Clean/Service (1m/1y) 5848	12/1/23 12:00 AM	12/28/23 09:25 AM
3671832	0000248832	COLLECTOR BRIDGE TRAVELLING	5848, Ailsa Craig WWTP & CS, Process, Tertiary Treatment	Refurbish/Replace/Repair	Bridge Travelling Insp/Service (3m/1y/5y) 5848	12/1/23 12:00 AM	12/18/23 02:53 PM
3672188			5848, Ailsa Craig WWTP & CS	Compliance	Sampling and Testing (1m) 5848	12/1/23 12:00 AM	12/28/23 09:14 AM
3672298			5848, Ailsa Craig WWTP & CS	Inspection	PH Probe Replacement (1y) 5848	12/1/23 12:00 AM	1/4/24 03:11 PM
3672585			5848, Ailsa Craig WWTP & CS	Inspection	Engine Diesel Ailsa Craig WWTP Insp/Test (1m) 5848	12/1/23 12:00 AM	12/22/23 07:35 AM
3672736			5848, Ailsa Craig WWTP & CS	Inspection	Supervisor Spot Check North Middlesex Facilities (3m) - 5848/1286/6001	12/1/23 12:00 AM	12/5/23 11:06 AM
3687544	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 5848	12/1/23 12:00 AM	12/15/23 12:06 PM
3697053	0000248966	PANEL ALARM/DIALER BEAR CREEK P.S.	5848, Ailsa Craig WWTP & CS	Inspection	Alarm Dialer Bear Creek P.S. Testing (1m) 5848	12/1/23 12:00 AM	12/19/23 12:42 PM
3697058	0000248967	PANEL ALARM/DIALER AILSA CRAIG WCPC	5848, Ailsa Craig WWTP & CS, Facility	Inspection	Alarm Dialer Ailsa Craig WCPC Testing (1m) 5848	12/1/23 12:00 AM	12/22/23 07:38 AM
3697063	0000248965	PANEL ALARM/DIALER NEW ONTARIO P.S.	5848, Ailsa Craig WWTP & CS	Inspection	Alarm Dialer New Ontario P.S. Testing (1m) 5848	12/1/23 12:00 AM	12/19/23 12:45 PM
3697578			5848, Ailsa Craig WWTP & CS	Health and Safety	Workplace Inspection Report (1m)	12/1/23 12:00 AM	12/21/23 07:38 AM
3703766			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Review (1m) 5848	12/6/23 12:00 AM	12/22/23 10:29 AM
3705620			5848, Ailsa Craig WWTP & CS	Compliance	Sampling Calendar Review (1y) 5848/6001	12/15/23 12:00 AM	12/22/23 11:24 AM
3705773			5848, Ailsa Craig WWTP & CS, Facility	Inspection	Esa inspection @ Ailsa Craig WPCP 5848		12/15/23 02:35 PM
3706297			5848, Ailsa Craig WWTP & CS	Compliance	WISKI Data Entry (1m) 5848	12/20/23 12:00 AM	1/8/24 12:02 PM

Appendix B

2023 Calibration Report



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 14, 2023

Equipment Description: Flow Transmitter

Assigned Number: FIT 1001

Area Located: Ailsa Craig

OCWA Number: 0000248840

Instrument Data

Manufacturer: Siemens

Model Number: Sitrans M Mag Flow

Type: Magmeter 6"

Serial Number: 7ME6910-1AA10-1BA0

Range: 0-50 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
0	4.0 mA	0.00 l/s	0.00 l/s	Pass
25	8.0 mA	12.50 l/s	12.50 l/s	Pass
50	12.0 mA	25.02 l/s	25.02 l/s	Pass
75	16.0 mA	37.52 l/s	37.52 l/s	Pass
100	20.0 mA	50.00 l/s	50.00 l/s	Pass
12.8	6.06mA	6.44 l/s	10.44 l/s	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Verification of original calibration only.



Cal Factor 18.4864 Excitation 7.5 Hz

Checked By: Greg Pierce CCST

Signature: _____



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 14, 2023

Equipment Description: Flow Transmitter

Assigned Number: FIT 2301

Area Located: Ailsa Craig

OCWA Number: 0000248841

Instrument Data

Manufacturer: Siemens

Model Number: Sitrans M Mag Flow

Type: Magmeter 3"

Serial Number: 7ME6910-1AA10-1BA0

Range: 0-15 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
0	4.0 mA	0.00 l/s	0.00 l/s	
25	8.0 mA	12.48 l/s	12.48 l/s	Pass
50	12.0 mA	24.95 l/s	24.95 l/s	Pass
75	16.0 mA	37.53 l/s	37.53 l/s	Pass
100	20.0 mA	50.00 l/s	50.00 l/s	Pass
27.3	8.37mA	13.65 l/s	13.65 l/s	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Verification of original calibration only.



Cal Factor 4.68506 Excitation 7.5 Hz

Checked By: Greg Pierce CCST

Signature: _____



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 14, 2023

Equipment Description: Flow Transmitter

Assigned Number: FIT 5001

Area Located: Ailsa Craig

OCWA Number: 0000248842

Instrument Data

Manufacturer: Siemens

Model Number: Sitrans M Mag Flow

Type: Magmeter 12"

Serial Number: 7ME6910-1AA10-1BA0

Range: 0-50 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
0	4.0 mA	0.00 l/s	0.00 l/s	
25	8.0 mA	12.47 l/s	12.47 l/s	Pass
50	12.0 mA	25.00 l/s	25.00 l/s	Pass
75	16.0 mA	37.46 l/s	37.46 l/s	Pass
100	20.0 mA	50.00 l/s	50.00 l/s	Pass
24.4	7.94 mA	12.2 l/s	12.2 l/s	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Verification of original calibration only.



Cal Factor: 77.9432 Excitation 3.75 Hz

Checked By: Greg Pierce CCST

Signature: _____



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 14, 2023

Equipment Description: Flow Transmitter

Assigned Number: FIT 4002

Area Located: North Ontario Pumping Station

AMMS Number: N/A

Instrument Data

Manufacturer: Siemens

Model Number: Sitrans M Mag Flow

Type: Magmeter 6"

Serial Number: 7ME6910-1AA10-1BA0

Range: 0-50 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
0	4.0 mA	0.00 l/s	0.00 l/s	
25	8.0 mA	12.64 l/s	12.64 l/s	Pass
50	12.0 mA	24.93 l/s	24.93 l/s	Pass
75	16.0 mA	37.50 l/s	37.50 l/s	Pass
100	20.0 mA	50.00 l/s	50.00 l/s	Pass
27%	8.35 mA	13.61 l/s	13.61 l/s	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Verification of original calibration only.



Checked By: Greg Pierce CCST

Signature: 



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 14, 2023

Equipment Description: Level Transmitter

Assigned Number: Sludge Tank Level
LIT 6104

Area Located: Ailsa Craig WPCP

AMMS Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: 100

Type: Ultrasonic

Serial Number:

Range: 0-8.820 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	8.66 mA	2.57 m	2.57 m	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Unit has occasional LOE (Loss of Echo)



Checked By: Greg Pierce CCST

Signature: 



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 14, 2023

Equipment Description: Level Transmitter

Assigned Number: Supernatant Tank Level
LIT 6105

Area Located: Ailsa Craig WPCP

AMMS Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: 100

Type: Ultrasonic

Serial Number:

Range: 0-1.400 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	10.85 m/A	0.60 m	0.60 m	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:



Checked By: Greg Pierce CCST

Signature:



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 14, 2023

Equipment Description: Level Transmitter

Assigned Number: Septage Tank Level
LIT 1004

Area Located: Ailsa Craig WPCP

AMMS Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: 100

Type: Ultrasonic

Serial Number: PBD/U7210035

Range: 0-3.390 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
53.90%	12.62 mA	1.83 m	1.83 m	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:



Checked By: Greg Pierce CCST

Signature:



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 14, 2023

Equipment Description: Level Transmitter

Assigned Number: Alum Tank Level LIT 7001

Area Located: Ailsa Craig WPCP

AMMS Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: 100

Type: Ultrasonic

Serial Number: PBD/U7210024

Range: 0-2.91 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	10.36 m/A	1.16 m	1.16 m	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:



Checked By: Greg Pierce CCST

Signature: 



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 14, 2023

Equipment Description: Level Transmitter

Assigned Number: Supernatant Holding Level
LIT 8103

Area Located: Ailsa Craig WPCP

AMMS Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: 100

Type: Ultrasonic

Serial Number: PBD/UN146147

Range: 0-5.610 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	9.06 mA	1.52 m	1.52 m	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:



Checked By: Greg Pierce CCST

Signature: 



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 14, 2023

Equipment Description: Level Transmitter

Assigned Number: Aerobic Digester 2 Level
LIT 8102

Area Located: Ailsa Craig WPCP

AMMS Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: 100

Type: Ultrasonic

Serial Number: PBD/U83100834

Range: 0-5.080 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	15.73 mA	3.72 m	3.72 m	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Transducer Improperly Mounted



Checked By: Greg Pierce CCST

Signature: _____



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 15, 2023

Equipment Description: Level Transmitter

Assigned Number: Aerobic Digester 1 Level
LIT 8101

Area Located: Ailsa Craig WPCP

AMMS Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: 100

Type: Ultrasonic

Serial Number: PBD/U8300533

Range: 0-5.610 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	13.64 mA	3.38 m	3.38 m	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:



ELECTRONICS FAILURE

Checked By: Greg Pierce CCST

Signature:



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 15, 2023

Equipment Description: Level Transmitter

Assigned Number: Wet Well Level LIT 4001

Area Located: Ailsa Craig William St. SPS

AMMS Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: 100

Type: Ultrasonic

Serial Number: PBD/U7210031

Range: 0-2.770 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	11.22 m/A	1.25 m	1.25 m	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:



Checked By: Greg Pierce CCST

Signature: 



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 15, 2023

Equipment Description: Level Transmitter

Assigned Number: Wet Well Level

Area Located: Ailsa Craig New Ontario SPS

AMMS Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: 100

Type: Ultrasonic

Serial Number: PBD/U8310308

Range: 0-4.350 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	8.99 mA	1.35 m	1.35 m	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Electronics Failure



Checked By: Greg Pierce CCST

Signature:



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 15, 2023

Equipment Description: Level Transmitter

Assigned Number: Wet Well Level LIT 4002

Area Located: Ailsa Craig Bear Creek SPS

AMMS Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: 100

Type: Ultrasonic

Serial Number: PBD/U8300768

Range: 0-2.895 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	9.53 m/A	1.00 m	1.00 m	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:



Checked By: Greg Pierce CCST

Signature: 