2023 ANNUAL PERFORMANCE REPORT

TOWN OF WASAGA BEACH WATER POLLUTION CONTROL PLANT

For the period of
January 1st, 2023 to December 31st, 2023

Prepared for the Corporation of the Town of Wasaga Beach by the Ontario Clean Water Agency

WASAGA BEACH

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

REQUIREMENTS FOR ANNUAL PERFORMANCE REPORT

This annual performance report was prepared in accordance with Amended Environmental Compliance Approval (ECA) #5669-BWJPYC as per section 11. (4) and Amended ECA #0766-CM9RQA as per section 11. (4), for the purposes of this report, only ECA #0766-CM9RQA shall be referenced as it is the most current ECA and the reporting requirements for the annual performance report are the same as listed in revoked ECA #5669-BWJPYC. This annual performance report was also prepared in accordance with ECA #131-W601, Issue #1 for the Town of Wasaga Beach Municipal Collection System.

ECA #0766-CM9RQA, SECTION 11. (4) REPORTING REQUIREMENTS

The Owner shall prepare performance reports on a calendar year basis and submit to the District Manager by March 31 of the calendar year following the period being reported upon. The reports shall contain, but shall not be limited to, the following information pertaining to the reporting period:

a) a summary and interpretation of all Influent, and Imported Sewage monitoring data, and a review of the historical trend of the sewage characteristics and flow rates;

b) a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates, loading and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;

c) a summary of all operating issues encountered and corrective actions taken;

d) a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;

e) a summary of any effluent quality assurance or control measures undertaken;

f) a summary of the calibration and maintenance carried out on all Influent, Imported Sewage and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;

g) a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:

    i. when any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend in deterioration of Final Effluent quality;

ii. When the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity;

h) a tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;

i) a summary of any complaints received and any steps taken to address the complaints;

j) a summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events;

k) a summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Condition 10, including a report on status of implementation of all modification.

l) a summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to projects undertaken and completed in the sanitary sewer system that result in overall Bypass/Overflow elimination including expenditures and proposed projects to eliminate Bypass/Overflows with estimated budget forecast for the year following that for which the report is submitted.

m) any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works.

n) a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;

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1. System Description

The Wasaga Beach Water Pollution Control Plant (WPCP) is an extended aeration plant with tertiary treatment and is located at 30 Woodland Drive in Wasaga Beach, Ontario. The WPCP is owned by the Town of Wasaga Beach and operated on behalf of the Owner by the Ontario Clean Water Agency. The municipal sewage collection system is owned and operated by the Town of Wasaga Beach, with the exception of the Pumping Stations, which are operated by OCWA. During the reporting period the WPCP operated under two amended ECAs: #5669-BWJPYC (Issued Feb. 5, 2021) from January 1 to February 15, 2023 and Amended ECA #0766-CM9RQA (Issued Feb. 16, 2023) from February 16 to December 31, 2023. For the purposes of this report, only ECA #0766-CM9RQA shall be referenced, as the reporting requirements are the same under both ECAs.

As per ECA #0766-CM9RQA the sewage plant's rated capacity is 15,433 m^3/d with a peak hourly flow rate (tertiary treatment capacity) of 39,730 m^3/h. The major process units consist of: equalization and influent works, aeration tanks, secondary clarifiers, disk filtration, UV disinfection, and aerobic biosolids digesters and sludge holding tanks, chemical dosing (Aluminum Sulfate) and plant air (blowers and compressors). The WPCP also receives septage from the outlying non-serviced areas of the Town via haulage trucks that is blended with the domestic sewage at the headworks. The WPCP discharges the treated effluent via its outfall into the Nottawasaga River.

An overview of the Wasaga Beach Water Pollution Control Plant (WPCP) can be found in the following table:

Table 1. Wasaga Beach Waste Pollution Control Plant System Overview

Facility Name:	Wasaga Beach Water Pollution Control Plant (WPCP)
Facility Type:	Extended Aeration with Clarification, Aerobic Digesters, Filtration and UV Disinfection
Plant Classification:	Class III WWT, Class II WWC
Works Number:	120001862
Rated Capacity:	15,433 m^3/d
Discharge Point:	Nottawasaga River
Environmental Compliance Approval:	5669-BWJPYC (Issued Feb. 5, 2021) 0766-CM9RQA (Issued Feb. 16, 2023)

2. Monitoring Data Influent

Where ECA 0766-CM9RQA, section 11.4(a) requires:
"a summary and interpretation of all Influent, and Imported Sewage monitoring data, and a review of the historical trend of the sewage characteristics and flow rates"

2.1 Influent ECA Monitoring Program

The following table outlines the influent monitoring program at the WPCP as required by the most current ECA for the reporting period.

Table 2: Influent Water Quality Monitoring Program and Sampling Points- *as per ECA 0766-CM9RQA Schedule D*

Parameters[1A]	Sample Type	Minimum Frequency
Biochemical Oxygen Demand (BOD_5)	24 hour composite	Monthly
Total Suspended Solids (TSS)	24 hour composite	Monthly
Total Phosphorous (TP)	24 hour composite	Monthly
Total Kjeldahl Nitrogen (TKN)	24 hour composite	Monthly

[1A] *Monthly sample results are in Appendix A*

2.2 Raw (Influent) Characteristics: Summary and Interpretation of Reporting Year

The following parameters in Table 3 are not reportable as they do not have limits or objectives but are monitored as required by the ECA to characterize the contents of incoming sewage flow.

Laboratory analysis of the influent throughout the year indicated that BOD_5, Total Suspended Solids, Total Phosphorus and Total Kjeldahl Nitrogen peaked in June, 2023 at 429.75 mg/L, 833.00 mg/L, 9.68 mg/L and 70.70 mg/L respectively. During this reporting period, large fluctuations in raw sewage quality were noted.

Table 3: Raw Sewage (Influent) Quality Analysis for 2023

Month[2A]	Monthly Influent Concentrations (mg/L)			
	BOD_5	Total Suspended Solids	Total Phosphorus	Total Kjeldahl Nitrogen
January	197.40	191.80	3.28	30.28
February	220.00	182.50	3.28	31.60
March	178.00	191.75	2.34	24.05
April	131.25	172.25	2.56	25.23
May	223.60	235.20	3.88	31.38
June	429.75	833.00	9.68	70.70
July	276.75	527.50	6.63	53.95
August	357.40	488.40	7.01	54.26
September	400.00	437.25	7.33	54.26
October	300.00	369.20	6.94	57.36
November	313.00	610.25	7.05	57.15
December	293.00	408.25	6.93	52.98
2023 Annual Average	**276.68**	**387.28**	**5.57**	**46.10**

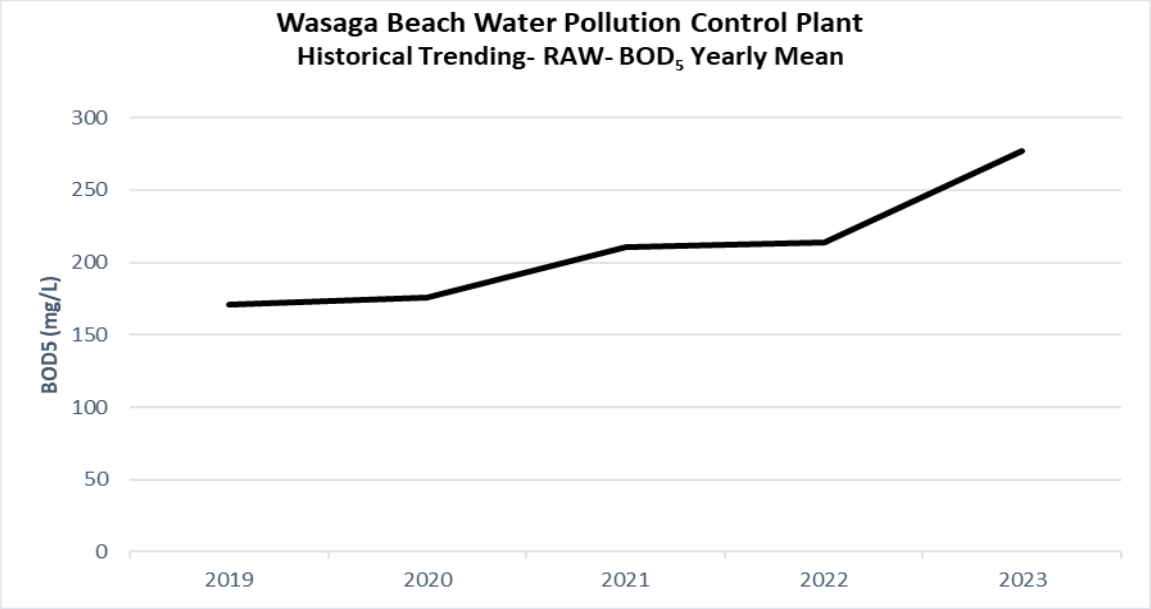
[2A] *Monthly sample results are in Appendix A*

2.3 Raw Sewage (Influent) Characteristics: Review of Historical Trends

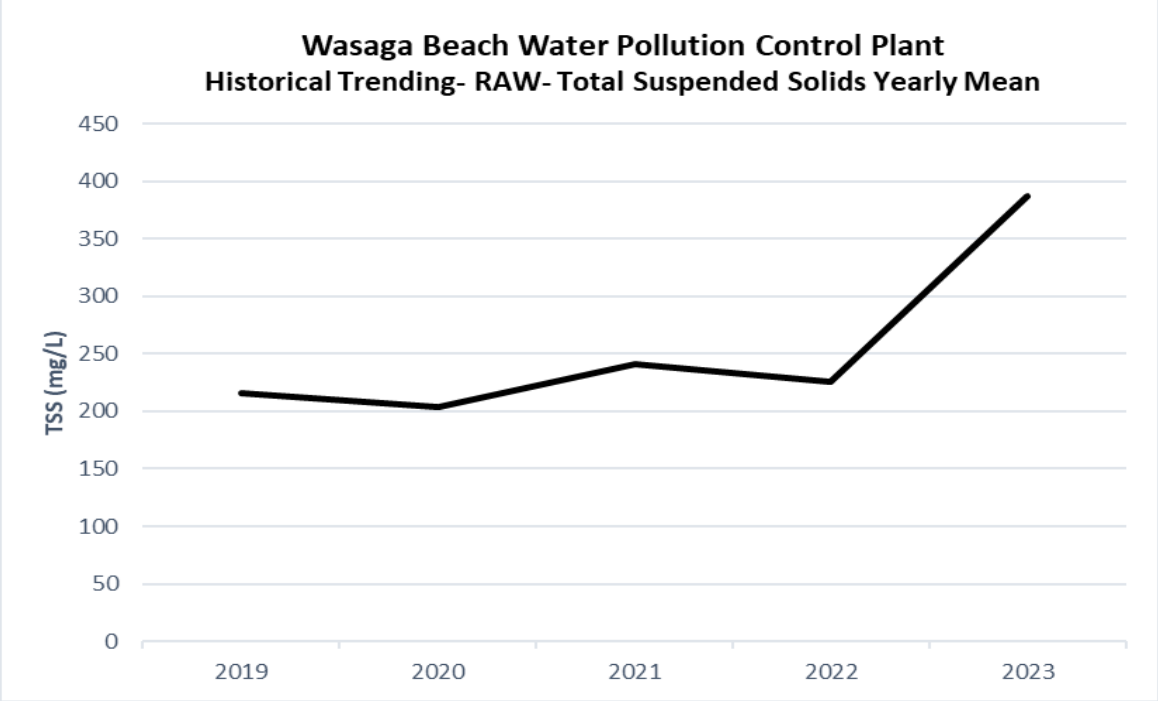
A review of the historical trends for influent sewage characteristics, shown in *Graphs 1* to *Graphs 4*, indicate the following:

- BOD_5 – in 2019 BOD_5 concentration yearly average was 170.50 mg/L, trending up, to 213.83 mg/L in 2022. In 2023 there was a noticeable increase to 276.68 mg/L. Refer to *Graph 1*.
- Total Suspended Solids (TSS) – from 2019 to 2022 averages were fairly consistent between with a gradual increase from 216.17 mg/L in 2019 to 240.96 mg/L (2021). In 2023 there a noticeable increase in concentrations to 387.28 mg/L. Refer to *Graph 2*.
- Total Phosphorous (TP) – from 2019 to 2022 concentrations were fairly consistent between 2.64 to 3.02 mg/L. In 2023 TP concentration noticeably increased to 5.57 mg/L. Refer to *Graph 3*.
- Total Kjeldahl Nitrogen (TKN) – from 2019 to 2021 TKN concentrations decreased (30.78 to 27.34 mg/L). In 2022 (37.79 mg/L) and 2023 (46.1 mg/L), a noticeable increase occurred. Refer to *Graph 4*.

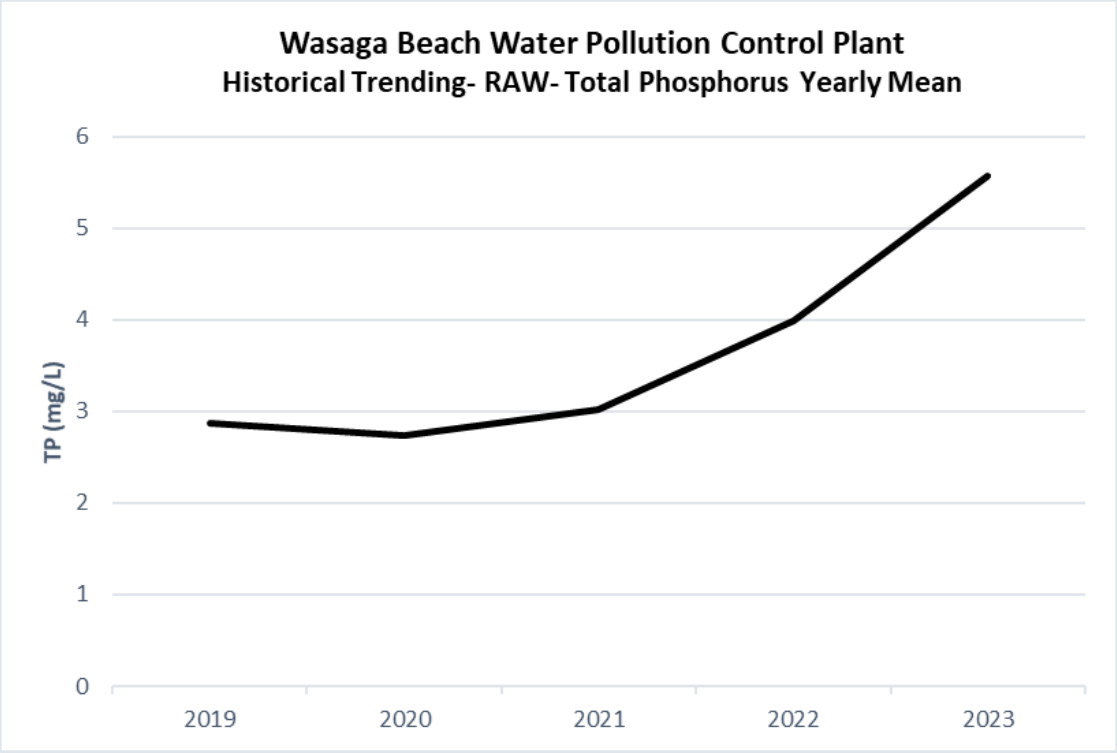
Graph 1. Raw Sewage (Influent) BOD_5 Historical Trending for 2019-2023



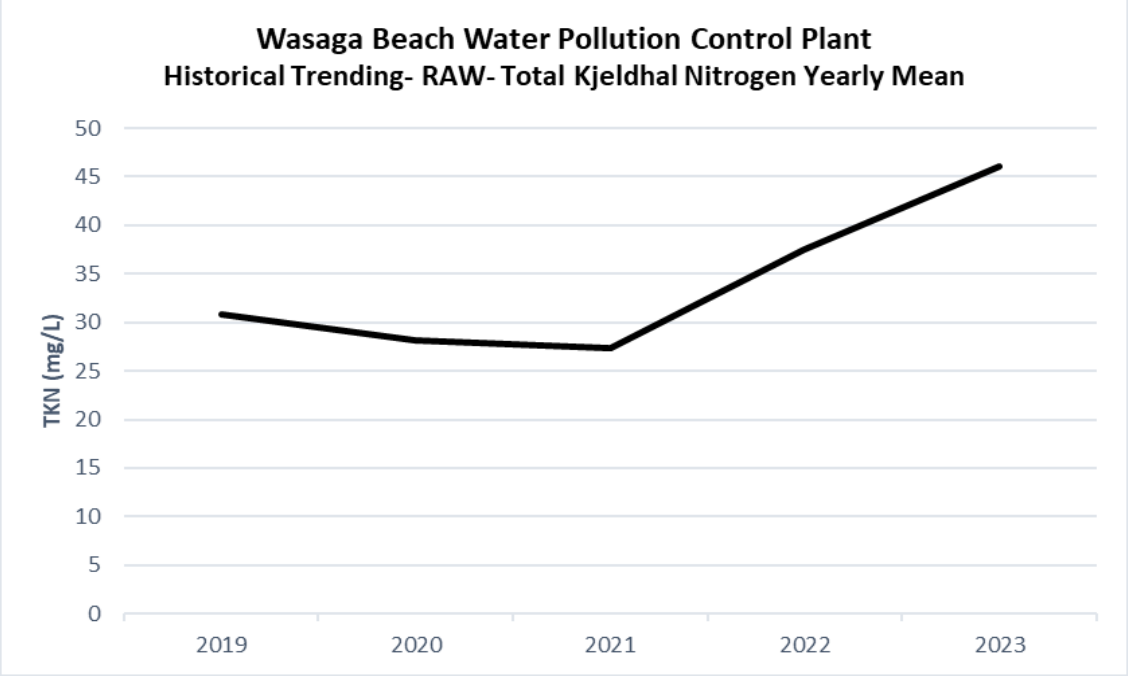
Graph 2. Raw Sewage (Influent) Total Suspended Solids Historical Trending for 2019-2023



Graph 3. Raw Sewage (Influent) Total Phosphorus Historical Trending for 2019-2023



Graph 4. Raw Sewage (Influent) Total Kjeldahl Nitrogen Historical Trending for 2019-2023



2.4 Raw Sewage (Influent) Flow: Summary and Interpretation of Reporting Year

The Rated Capacity listed in the most current ECA for the WPCP is 15,433 cubic metres per day (m^3/d). The Rated Capacity listed in an ECA is determined based on the highest average annual flow during which the sewage treatment plant can consistently meet site specific effluent quality criteria (as per the Ontario Design Guidelines for Sewage Works); this is usually dictated by the most limiting treatment/process unit in the system. ECA #0766-CM9RQA, Section 6(1) requires the Owner to design and undertake everything practicable to operate the Sewage Treatment Plant in accordance with its objectives so that (c) Annual Average Daily Influent Flow is within the Rated Capacity of the Sewage Treatment Plant.

The Peak Flow Rate is the maximum rate of sewage flow for which the plant or process unit was designed. Each process in the treatment system will have its own Peak Flow Rate. The Peak Flow Rate of a treatment system is determined by the process unit with the lowest Peak Flow Rate. For Wasaga Beach WPCP, the Plant Peak Flow Hourly Rate is limited by the Inlet Works, which has a Peak Flow Rate of 39,730 cubic metres per hour (m^3/hour).

Based on the definition of the Rated Capacity, a single exceedance does not necessarily result in a non-compliance event, however, if a system continually exceeds its Rated Capacity, this could result in reduced treatment efficiency and lead to effluent objective exceedances.

2.4.1 Comparison of Influent Flow to Rated Capacity and Plant Peak Flow Rate

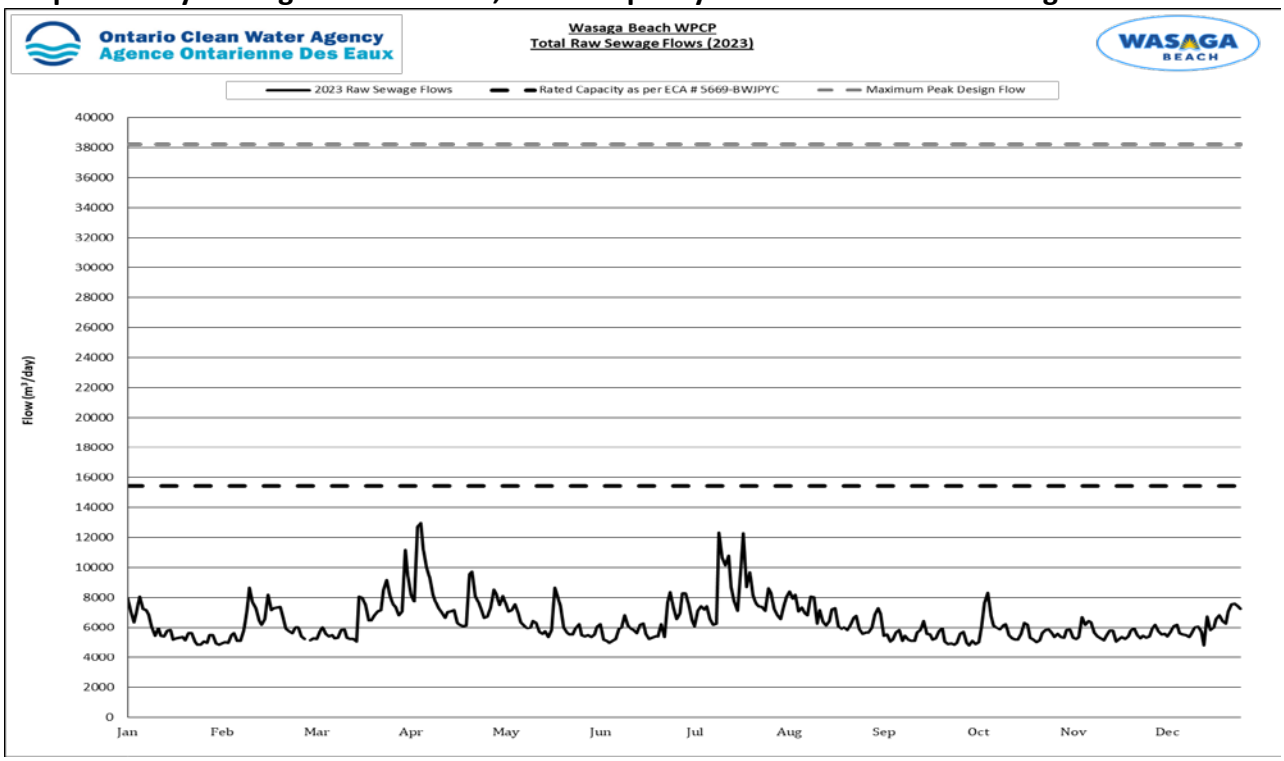
The following table outlines the average and maximum daily raw sewage (influent) flow by month during the reporting period and the graph (Graph 5) shows the comparison of the influent flow data during the reporting period with the Rated Capacity and Plant Peak Flow Rate.

Table 4: 2023 Raw Sewage (Influent Flow) Average and Maximum Daily Flow Data with Comparison to the Rated Capacity

Month	Average Influent Flow (m^3/day)	% of Rated Capacity (15,433 m^3/d)	Peak Influent Flow (m^3/day)	% of Rated Capacity (15,433 m^3/d)	Total Volume (m^3)
January	5,823.32	37.73	8,052.00	52.17	180,523.00
February	6,275.54	40.66	8,629.00	55.91	175,715.00
March	6,420.87	41.60	9,166.00	59.39	199,047.00
April	8,233.67	53.35	12,992.00	84.18	247,010.00
May	6,475.84	41.96	8,642.00	56.00	200,751.00
June	5,960.73	38.62	8,355.00	54.14	178,822.00
July	8,209.52	53.19	12,309.00	79.76	254,495.00
August	6,790.84	44.00	8,399.00	54.42	210,516.00

Month	Average Influent Flow (m^3/day)	% of Rated Capacity (15,433 m^3/d)	Peak Influent Flow (m^3/day)	% of Rated Capacity (15,433 m^3/d)	Total Volume (m^3)
September	5,567.20	36.07	7,256.00	47.02	167,016.00
October	5,734.87	37.16	8,337.00	54.02	177,781.00
November	5,580.33	36.16	6,673.00	43.24	167,410.00
December	6,110.19	39.59	7,567.00	49.03	189,416.00
2023	**6,434.25**	**41.69**	**12,992.00**	**84.18**	**2,348,502.00**

Graph 5: Daily Average Influent Flow, Rated Capacity and Maximum Peak Design Flow Rate

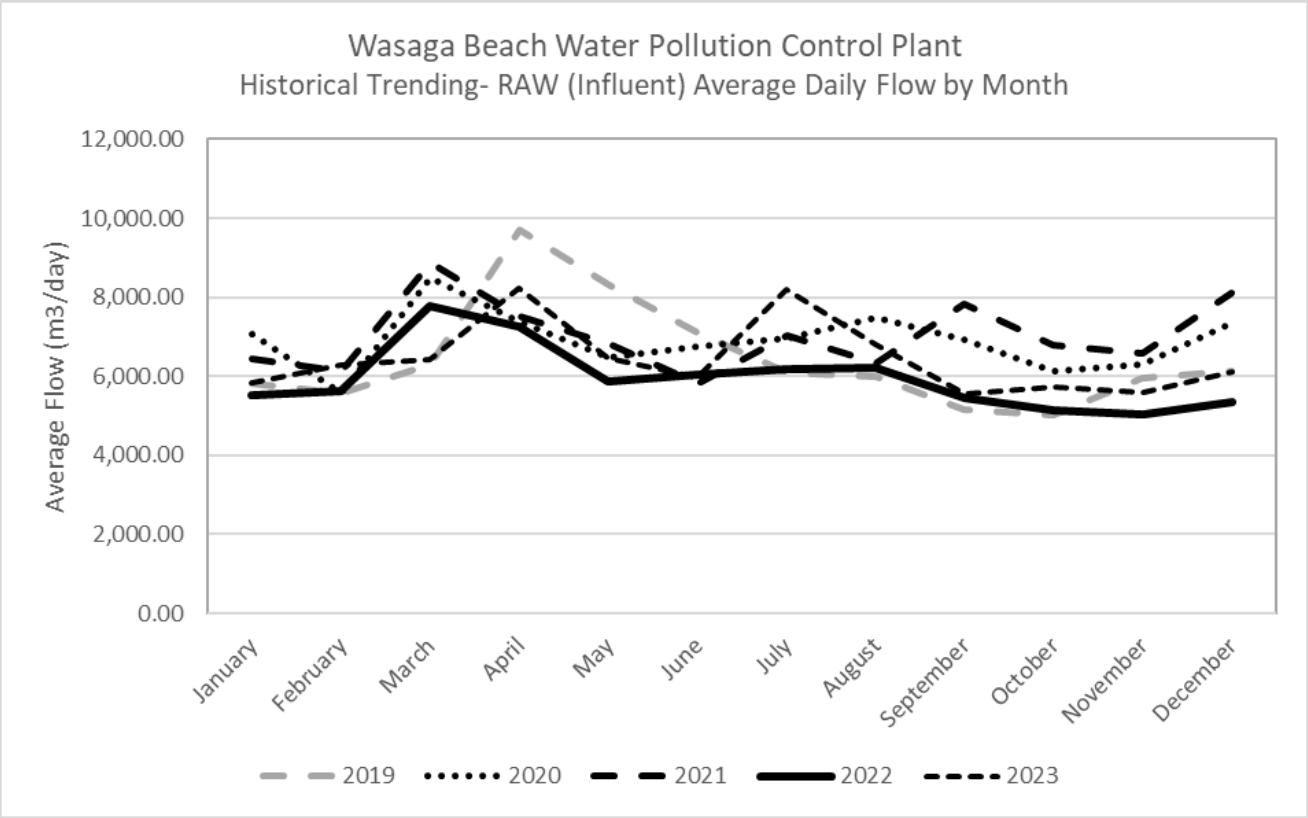


The average daily flow of 6,434.25 m^3/day is based on the total flow for the reporting period divided by the number of operational days (i.e. 365) as per the "Average Daily Influent Flow" definition in the ECA. The average daily influent flow during the reporting period was 41.69% of the "Rated Capacity" or "Average Daily Influent Flow for which the Works are approved to handle". The highest recorded peak flow event of 12,992 m^3/day occurred on April 6, 2023 and represented 84.18% of the Rated Capacity and was a result of a heavy rainfall event. For more detail of the monthly and total raw influent flows refer to *Appendix A*.

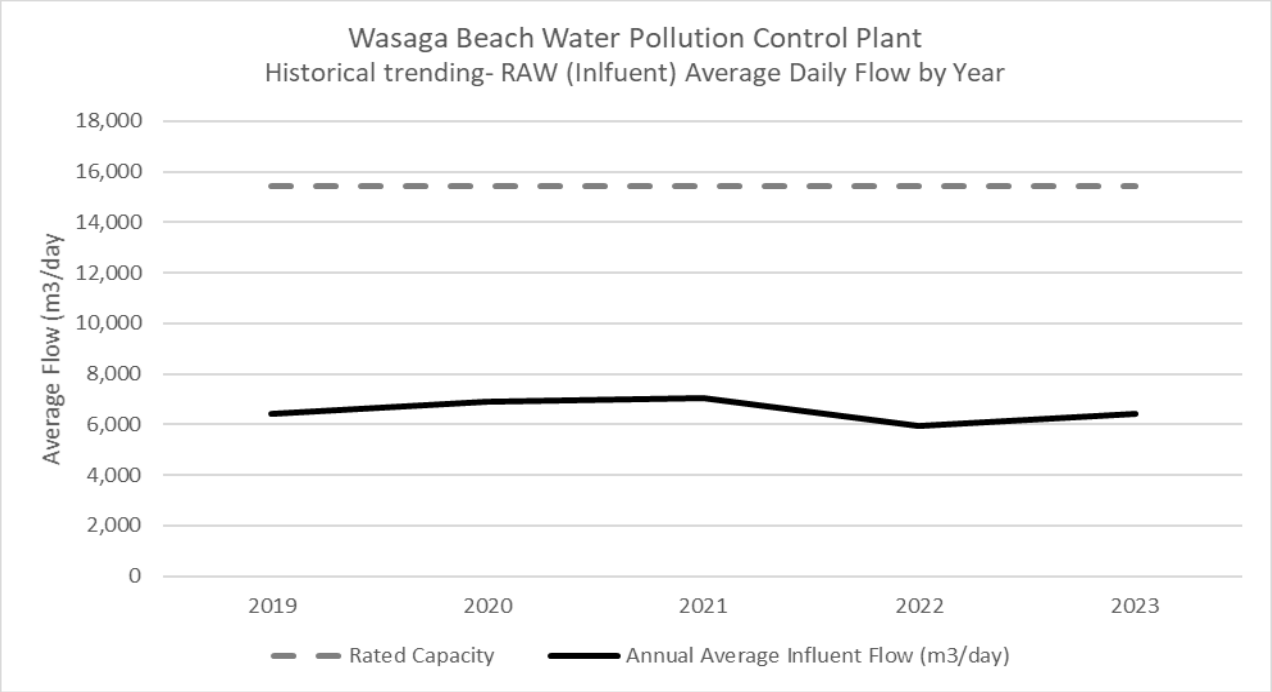
2.5 Influent Flow and Volume: Review of Historical Trends

The below graphs show historical raw (influent) daily average flow by month (Graph 6) and by year (Graph 7) from 2019 to 2023. The average flows have remained fairly consistent. In spring (March or April), the annual peak flow event is due to and seasonal precipitation and warmer temperatures resulting in snow melt. The July 2023 higher than usually precipitation is the cause of the average daily flow being noticeably higher than previous years.

Graph 6: Monthly Historical Trending of Daily Average Influent Flow for 2019 to 2023



Graph 7: Yearly Historical Trending of Daily Average Influent Flow for 2019 to 2023



The total raw sewage volume of wastewater treated in 2023 was 2,348,502 m^3, more than 2,172,932 m^3 total raw sewage volume for 2022 and similar to 2019 to 2021 totals. The annual average daily flow of raw sewage in 2022 was 5,953.24 m^3/day, 38.57% of the rated capacity (15,433 m^3/day) compared to 2023 where annual average daily flow of raw sewage was 6,434.25 m^3/day or 41.69% of the rated capacity.

3. Effluent Monitoring

Where ECA No. 0766-CM9RQA, section 11.4(b) requires:
"a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates, loading and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works"

3.1 Discharge Data Report (MECP)

The Ontario Clean Water Agency (OCWA) has an agreement with the MECP to submit quarterly discharge data for all OCWA operated municipal sewage treatment facilities 45 days at the end of each quarter. Monitoring data is submitted via the Ministry of Environment Wastewater System (MEWS). The MECP has these reports stored in a shared location where MECP Inspectors can obtain and review them. There are no limits/objectives for discharge for the quarterly Discharge Data Report.

3.2 Monitoring Report (WSER)

A monitoring report required under the Wastewater Systems Effluent Regulation (WSER) is submitted on a quarterly basis to the Government of Canada via the Effluent Regulatory Reporting Information System (ERRIS). The quarterly monitoring report requires that the following information be reported for the Wasaga Beach WPCP:

- Number of days effluent was deposited
- Total volume of effluent deposited
- Average CBOD (limit of 25 mg/L)
- Average concentration of suspended solids (limit of 25 mg/L)

The monitoring reports can be found within the ERRIS. All results for average $CBOD_5$ and concentration of suspended solids were below the limits set out in WSER. Testing is performed annually every April for Acute Lethality of the effluent to Rainbow Trout. The 2023 results showed 0% mortality.

3.3 Effluent ECA Monitoring Program

Where: Condition 7 is *"imposed to ensure that the Final Effluent discharged from the Works to the environment meets the Ministry's effluent quality requirements."*

The following tables outline the effluent quality monitoring program at the Wasaga Beach WPCP including sampling points, frequencies, compliance limits and objectives as per its most current ECA. In addition to the monitoring program, in-house samples are collected and analyzed in the WPCP laboratory throughout the year to help with process performance monitoring, adjustment, and optimization.

Table 5: Water Quality Monitoring Program and Effluent Sampling Points- *as per ECA 0766-CM9RQA, Schedule D*

Parameters[5A]	Sample Type	Minimum Frequency
Carbonaceous Biochemical Oxygen Demand ($CBOD_5$)	24 hour composite	Monthly
Total Suspended Solids (TSS)	24 hour composite	Monthly
Total Phosphorous (TP)	24 hour composite	Weekly
Total Ammonia Nitrogen (TAN)	24 hour composite	Weekly
E. coli	Grab	Weekly
pH	Grab/Probe/Analyzer	Weekly
Temperature	Grab/Probe/Analyzer	Weekly
Un-ionized Ammonia	As Calculated	Weekly

[5A] Refer to Appendix A 2023 Annual Performance Report for monthly sample results.

Note: pH and temperature of the Final Effluent shall be determined in the field at the time of sampling for Total Ammonia Nitrogen

Note: The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended.

Table 6: Environmental Compliance Approval Final Effluent Compliance Limits- ***as per ECA 0766-CM9RQA - Schedule C***

Parameter[6A]	Averaging Calculator	Concentration Limits
$CBOD_5$	Annual Average Effluent Concentration	10.0 mg/L
$CBOD_5$ Loading	Annual Average Daily Effluent Loading	154 kg/day
Total Suspended Solids	Annual Average Effluent Concentration	10.0 mg/L
Total Suspended Solids Loading	Annual Average Effluent Concentration	154 kg/day
Total Phosphorus	Monthly Average Effluent Concentration	0.20 mg/L
Total Phosphorus Loading	Monthly Average Daily Effluent Loading	3.1 kg/day
Total Ammonia Nitrogen (May 1 to Nov. 30)	Daily Effluent Concentration	1.1 mg/L
Total Ammonia Nitrogen Loading (May 1 to Nov. 30)	Individual Waste Loading	17.0 kg/day
Total Ammonia Nitrogen (Dec. 1 to Apr. 30)	Daily Effluent Concentration	5.0 mg/L
Total Ammonia Nitrogen Loading (Dec. 1 to Apr. 30)	Individual Waste Loading	77.2 kg/day
E.coli	Monthly Geometric Mean Density	200 CFU/100 mL[6B]
pH	Single Sample Result	between 6.0 to 9.5 inclusive

[6A] Refer to Appendix A 2023 Annual Performance Report for monthly sample results.

[6B] If the MPN method is utilized for E. coli analysis the limit shall be 200 MPN/100 mL

The following table outlines the ECA final effluent objective concentrations.

Table 7: Environmental Compliance Approval Final Effluent Compliance Objectives- ***as per ECA 0766-CM9RQA - Schedule B***

Parameters[7A]	Averaging Calculator	Concentration Objectives
$CBOD_5$[7B]	Annual Average Effluent Concentration	5.0 mg/L
Total Suspended Solids	Annual Average Effluent Concentration	5.0 mg/L
Total Phosphorus	Monthly Average Effluent Concentration	0.15 mg/L

Parameters[7A]	Averaging Calculator	Concentration Objectives
Ammonia + Ammonium (May 1 to Nov 30)	Daily Effluent Concentration	1.0 mg/L
Ammonia + Ammonium (Dec 1 to Apr 30)	Daily Effluent Concentration	4.0 mg/L
E.Coli	Monthly Geometric Mean Density	150 organisms/100 mL
pH	Single Sample Result	6.5 to 8.5 inclusive

[7A] Refer to Appendix A 2023 Annual Performance Report for monthly sample results

[6B] $CBOD_5$ is Five (5) Day Carbonaceous Biochemical Oxygen Demand

3.4 Effluent Monitoring Data: Summary and Interpretation of Reporting Year and Comparison to Objectives and Limits

A review of the effluent monitoring data shows that the following parameters were within the objectives (as applicable) and limits set out in the most current ECA for the duration of the 2023 reporting period:

- $CBOD_5$ annual average effluent concentration
- $CBOD_5$ annual average daily effluent loading
- Total Suspended Solids annual average effluent concentration
- Total Suspended Solids annual average daily effluent loading
- Total Phosphorus monthly average daily effluent loading
- Total Ammonia Nitrogen (May 1 to Nov. 30) individual waste loading
- Total Ammonia Nitrogen (Dec. 1 to Apr. 30) daily effluent concentration
- Total Ammonia Nitrogen (Dec. 1 to Apr. 30) individual waste loading
- *E.Coli*- Monthly Geometric Mean Density

A review of the effluent monitoring data shows that the following parameters were within the limits set out in the most current ECA for the duration of reporting period but were unable to meet the objectives in the following instances:

- pH single sample results in three samples taken in November and December
- Total Phosphorus monthly average effluent concentration- August, 2023

It should be noted that as per the ECA, the objectives are non-enforceable design objectives to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs. Exceedances of objectives is not reportable.

A review of the effluent monitoring data shows that the following parameters were within the limits set out in the most current ECA for some of the reporting period with the exception of the following limit exceedances that resulted in reportable non-compliance incidents:

- Total Ammonia Nitrogen (May 1 to Nov. 30) daily effluent concentration on May 30, July 4, and August 8, 2023

The following tables summarize monthly and annual data in comparison to the applicable ECA objectives and limits for the reporting period. Refer to *Appendix A* 2023 Annual Performance Report for a more detailed description of monthly sample results.

Table 8. Effluent Sampling Results: $CBOD_5$ Concentration

Timeframe	Average (mg/L)	Within Limits? (10.0 mg/L)	Within Objectives? (5.0 mg/L)
2023	**2.41**	**Yes**	**Yes**

**As per the ECA, $CBOD_5$ Concentration Averaging Calculator is an Annual Average Effluent Concentration.*

Table 9. Effluent Sampling Results: $CBOD_5$ Loadings

Timeframe	Annual Average (kg/d)	Within Limits? (154 kg/d)
2023	**15.85**	**Yes**

**There are no $CBOD_5$ loading objectives in the ECA*

**As per the ECA, $CBOD_5$ Loading Averaging Calculator is an Annual Average Daily Effluent Loading.*

Table 10. Effluent Sampling Results: Total Suspended Solids Concentration

Timeframe	Total Suspended Solids*		
	Annual Average (mg/L)	Within Limits? (10.0 mg/L)	Within Objectives? (5.0 mg/L)
2023	**4.47**	**Yes**	**Yes**

**As per the ECA, TSS Concentration Averaging Calculator is an Annual Average Effluent Concentration.*

Table 11. Effluent Sampling Results: Total Suspended Solids Loadings

Timeframe	Total Suspended Solids Loadings*	
	Annual Average (kg/d)	Within Limits? (154 kg/d)
2023	**29.38**	**Yes**

** As per the ECA, there are no TSS loading objectives, TSS Loading Averaging Calculator is an Annual Average Daily Effluent Loading.*

Table 12. Effluent Sample Results: Total Phosphorus Concentrations

2023	**Monthly Average*** (mg/L)	**Within Limit?** (0.2 mg/L)	**Within Objectives?** (0.15 mg/L)
January	0.15	Yes	Yes
February	0.12	Yes	Yes
March	0.13	Yes	Yes
April	0.10	Yes	Yes
May	0.08	Yes	Yes
June	0.12	Yes	Yes
July	0.13	Yes	Yes
August	0.19	Yes	No
September	0.09	Yes	Yes
October	0.06	Yes	Yes
November	0.07	Yes	Yes
December	0.09	Yes	Yes
2023	**0.11**	--	--

**As per the ECA, TP Concentration Averaging Calculator is a Monthly Average Effluent Concentration*

Table 13. Effluent Sample Results: Total Phosphorus Loadings

Timeframe	**Total Phosphorus Loadings**	
	Monthly Average* (kg/d)	**Within Monthly Limits?** (3.1 kg/d)
January	0.877	Yes
February	0.790	Yes
March	0.884	Yes
April	0.816	Yes
May	0.504	Yes
June	0.717	Yes
July	1.090	Yes
August	1.287	Yes
September	0.493	Yes
October	0.375	Yes
November	0.383	Yes
December	0.574	Yes
2023	**0.730**	--

**As per the ECA, there are no Total Phosphorus loading objectives, TP Loading Averaging Calculator is a Monthly Average Daily Effluent Loading.*

Table 14. Effluent Sample Results: Total Ammonia Nitrogen Concentrations

2023	**Minimum** (mg/L)	**Maximum** (mg/L)	**Monthly Average*** (mg/L)	**Number of Limit Exceedances** (May 1 to Nov 30 = 1.1 mg/L) (Dec 1 to Apr 30 = 5.0 mg/L)	**Number of Objective Exceedances** (May 1 to Nov 30 = 1.0 mg/L) (Dec 1 to Apr 30 = 4.0 mg/L)
January	0.10	0.20	<0.17	0	0
February	0.10	0.10	<0.10	0	0
March	0.10	0.10	<0.10	0	0
April	0.10	0.20	<0.13	0	0
May	0.10	2.50	<0.60	1	1
June	0.10	0.20	<0.13	0	0
July	0.10	1.40	0.33	1	1
August	0.10	2.30	0.58	1	1
September	0.10	0.40	<0.18	0	0
October	0.10	0.10	0.10	0	0
November	0.10	0.20	0.15	0	0
December	0.10	0.20	0.14	0	0
2023	**0.10**	**2.50**	**0.23**	**--**	**--**

**As per the ECA, TAN Averaging Calculator is a Daily Effluent Concentration*

Table 15. Effluent Sample Results: Total Ammonia Nitrogen Loadings

Month	**Monthly Average Loading (kg/day)**	**Within Monthly Compliance Limit?** (17.0 kg/day May 1-Nov 30)	**Within Monthly Compliance Limit?** (77.2 kg/day Dec 1-Apr 30)
January	1.008	-	Yes
February	0.637	-	Yes
March	0.659	-	Yes
April	1.046	-	Yes
May	3.980	Yes	-
June	0.762	Yes	-
July	2.794	Yes	-
August	4.014	Yes	-
September	0.986	Yes	-
October	0.585	Yes	-
November	0.851	Yes	-
December	0.874	-	Yes

**As per the ECA, TAN Loadings Averaging Calculator is an Individual waste loading*

Table 16. Effluent Sample Results: *E.Coli*

2023	*E.Coli*		
	Mean Geometric Density (orgs/100mL)	**Within Limits?** (200 orgs/100mL)	**Within Objectives?** (150 orgs/100mL)
January	2.00	Yes	Yes
February	5.26	Yes	Yes
March	2.00	Yes	Yes
April	2.63	Yes	Yes
May	3.03	Yes	Yes
June	6.62	Yes	Yes
July	3.72	Yes	Yes
August	3.81	Yes	Yes
September	2.83	Yes	Yes
October	2.00	Yes	Yes
November	2.00	Yes	Yes
December	1.41	Yes	Yes
2023[14A]	3.08	Yes	Yes

[*]As per the ECA, E.coli Averaging Calculator is Monthly Mean Geometric Density.

Table 17. Effluent Sample Results: pH

2023	Min.	Max.	**Within Limits?** (6.0 – 9.5 inclusive)	**Within Objectives?** (6.5 – 8.5 inclusive)
January	6.67	6.97	Yes	Yes
February	6.65	7.02	Yes	Yes
March	6.61	7.51	Yes	Yes
April	6.52	7.26	Yes	Yes
May	6.85	7.08	Yes	Yes
June	6.55	7.14	Yes	Yes
July	6.75	7.32	Yes	Yes
August	6.56	7.29	Yes	Yes
September	6.63	7.06	Yes	Yes
October	6.60	6.97	Yes	Yes
November	6.26	7.05	Yes	No
December	6.48	7.43	Yes	No

**As per the ECA, pH Calculator is a Single Sample Result*

3.5 Effluent Flow: Summary and Interpretation of Reporting Year

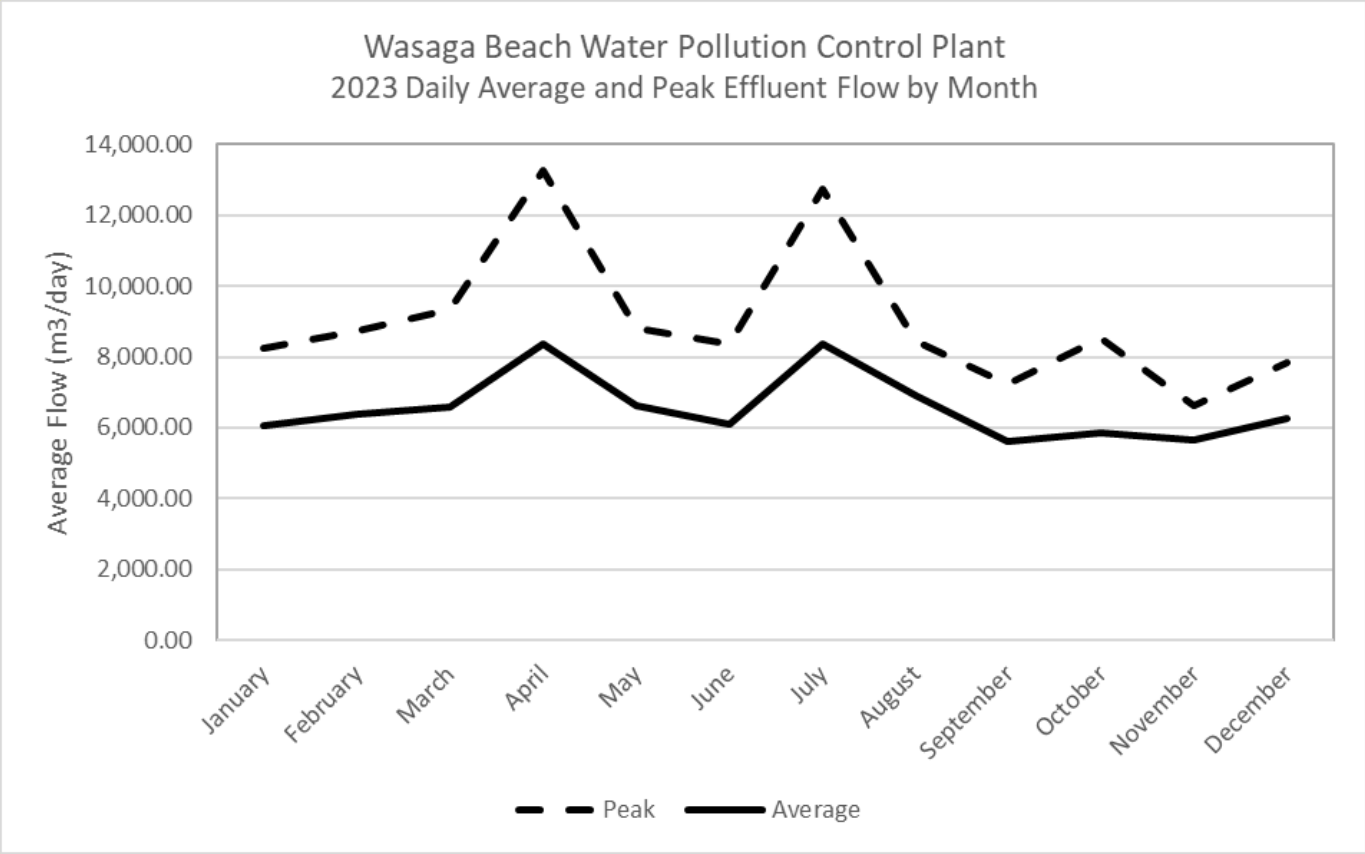
The following table outlines the final effluent average and peak daily flow data in 2023. The following graph (Graph 8) shows the final effluent average daily and peak daily final effluent flow by month for the reporting year.

Table 18: Final Effluent Average Daily and Peak Flow Data by month for 2023

Month	**Average Effluent Flow** (m^3/day)	**Peak Effluent Flow** (m^3/day)	**Total Effluent Volume** (m^3)
January	6,047.35	8,248.00	187,468.00
February	6,372.50	8,748.00	178,430.00
March	6,594.77	9,322.00	204,438.00
April	8,370.33	13,272.00	251,110.00
May	6,634.00	8,826.00	205,654.00
June	6,098.33	8,380.00	182,950.00
July	8,381.42	12,736.00	259,824.00
August	6,921.03	8,468.00	214,552.00
September	5,631.47	7,240.00	168,944.00
October	5,853.74	8,532.00	181,466.00
November	5,672.00	6,610.00	170,160.00
December	6,243.23	7,852.00	193,540.00
2023	**6,571.33** [3A]	**13,272.00**	**2,398,536.00**

[3A] *The annual average daily flow of 6,571.33, is based on the total flow for 2023 divided by the number of operational days in 2023 as per the "Average Daily Effluent Flow" definition of the ECA*

Graph 8: 2023 Daily Average and Peak Effluent Flow by Month



The average daily effluent flow for the reporting period was 6,571.33 m^3/day. Overall, effluent flows remained consistent with raw sewage intake. For more information on the influent flow data for the works during the reporting period, see *Section 2.4.1 Comparison of Influent Flow Data with Rated Capacity and Tertiary Treatment Capacity (Peak Flow Rate).*

3.6 Success and Adequacy of the Works

In 2023, the Wasaga Beach WWTP produced effluent with the following removal rates:

Table 19: Wasaga Beach WPCP Effluent Contaminant Removal Rates

Parameter	Average Removal Rate for 2023
$CBOD_5$	99.13%
Total Suspended Solids	98.85%
Total Phosphorus	98.03%

During the reporting period, the Wasaga Beach WPCP provided overall effective wastewater treatment, producing final effluent with average removal rates for $CBOD_5$, Total Suspended

Solids, and Total Phosphorus greater than 98%. Removal rates for 2023, were higher than the removal rates for the previous reporting year (2022) showing increased treatment efficiency in 2023.

The bacteriological quality of the effluent complied with the ECA monthly geometric mean density of less than 200 *E.Coli* organisms per 100 mL sample of effluent discharged from the plant. The range of monthly geometric mean density of organisms for 2023 was between less than 2 and 6.62 organisms per 100 mL, which is an indication of effective effluent disinfection. The annual geometric mean density of organisms in 2023 was 3.08 organisms per 100 mL.

Based on the monitoring program and effluent quality data, the Wasaga Beach WPCP provided effective treatment for the majority of the 2023 reporting period. Refer to *Appendix A* for more detail on the annual and monthly effluent quality results. For the greater part of the reporting year, Wasaga Beach WPCP was in compliance with all of the effluent concentration and loading limits for the reporting year, with the exception of a few single sample daily effluent TAN exceedances. *See Section 4. Operational Issues and Corrective Actions* for further details.

4. Operational Issues and Corrective Actions

ECA 0766-CM9RQA, section 11.4(c) requires *"a summary of all operating issues encountered and corrective actions taken"*.

During the reporting period, the Wasaga Beach WPCP experienced operating issues related to seven bypass events and one raw sewage spill. A summary of these issues and corrective actions taken can be found in *Section 11: Bypasses, Overflows, Spills or Other Abnormal Discharge Events* of this report.

In addition the Wasaga Beach WPCP experienced three reportable non-compliance events for TAN daily effluent concentration exceedances to the effluent limits. A summary of the non-compliances can be found in the below table.

Table 20: Wasaga Beach WPCP Reportable Non-Compliance Incidents

Parameter	ECA Limit	Sample Date	Sample Result	Issue and Corrective Actions Taken
Total Ammonia Nitrogen- (May 1-November)	1.1 mg/L	May 30, 2023	2.5 mg/L	• Exceedance was the result of a nine hour aeration blower failure caused by communication issues. • The communication issues was resolved and aeration blowers were restored to normal operating conditions • The TAN Individual Waste Loading for May 30, 2023 was below the May 1-November 30 ECA limit (17.0 kg/day) at 15.0 kg/day. • Verbal and written notification provided to the MECP on June 6 and June 13 respectively • No further actions were advised
Total Ammonia Nitrogen (May 1-November)	1.1 mg/L	July 4, 2023	1.4 mg/L	• Exceedance was a result of high loading caused by a few factors including: 645 m^3 of decanted water from Biosolids Storage Tank 1 to the head of the plant; 75 m^3 of decanted water from Biosolids Storage Tank 1 to the head of the plant; routine collection system flushing and increased seasonal summer long weekend flows • OCWA monitored in house and external laboratory results until external factors were stabilized • Verbal and written notification provided to the MECP on July 7, 2023 • No further actions were advised

Total Ammonia Nitrogen (May 1-November)	1.1 mg/L	August 8, 2023	2.3 mg/L	• Exceedance was a result of increased BOD_5 and TP from incoming raw sewage • OCWA made process adjustments to the treatment by adjusting the Alum dosage • Total Ammonia Nitrogen Individual Waste Loading for August 8, 2023 was below the May 1-November 30 ECA limit (17.0 kg/day) at 16.2 kg/day. • Verbal and written notification provided to the MECP on August 14 and 15, 2023 respectively • No further actions were advised

5. Maintenance Activities

Where ECA 0766-CM9RQA, Section 11.4(d) requires: *"a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works".*

5.1 Work Management System

Planned maintenance, including scheduled and non-scheduled maintenance activities are scheduled using a computerized Work Management System (WMS) that allows user to:

- Enter detailed asset information
- Generate and process work orders
- Access maintenance and inspection procedures
- Plan, schedule, and document all asset related tasks and activities
- Access maintenance records and asset histories

Work Orders are automatically generated by the WMS program and are assigned to the applicable Operations staff accordingly.

Please refer to *Appendix B* for a complete summary of preventative maintenance work orders completed during the reporting period.

5.2 Preventative Maintenance Activities

The preventative maintenance tasks completed throughout the reporting period are as follows:

- Monthly panel, alarm and diesel generator testing
- Monthly blower inspections
- Monthly Disk Filter and UV inspection and servicing
- Annual valve/backflow Inspection/Servicing
- Annual generator inspections and load testing
- Annual calibrations (flow meters, gas detectors, pH meters, D.O. probes etc.)
- Annual lifting device inspection

5.3 Emergency Repairs and Improvements

There were a number of repairs and/or improvements completed throughout the reporting period. They are as follows:

- Annual sludge haulage and disposal costs
- Purchase of XLR8
- Disk Filters Project/Upgrades- Filter Start-ups
- Biosolids Complex Upgrades
- Barscreen Refurbishments
- UV System Design Work
- Administration Building Roof Replacement
- Clarifiers 1 & 4 Reassembly
- Return Activated Sludge Pump (RASP) 2 Variable Frequency Drive (VFD) Replacement
- Inlet Building Rooftop Furnace Repair
- Supernatant Pump Replacement
- Exterior Lighting LED Retrofit
- Inlet Building Floor Drain Grate Replacement
- Equalization Tank Valve Replacement
- Chemical Building Window Replacements
- Generator Roof Leak Repair
- UV/Filter Building Rooftop HVAC Replacement
- Equalization Tank Valve 1 Replacement
- Inlet Building Fixed Gas Sensor Repairs
- Return Activate Sludge (RAS)1 Flow Meter Replacement

Please refer to *Appendix B – Facility Work Order Summary* for a complete summary of repairs and maintenance work orders completed during the reporting period.

6. Effluent Quality and Control Assurance

ECA 5569-BWJPYCM9RQA Section 11.4(e) requires:
"a summary of any effluent quality assurance or control measures undertaken;"

Quality assurance and control measures undertaken during the reporting period include adherence to provincial regulations, use of accredited laboratories, operation of the system by licensed operators, scheduled sampling and analysis, in-house laboratory analysis and calibration of equipment. The sections below provide further details of these measures.

6.1 Adherence to Provincial Regulations

The Ontario Clean Water Agency (OCWA) operates the Wasaga Beach Wastewater Treatment Plant in accordance with provincial regulations.

6.2 Use of Accredited Laboratories

During the reporting period, all chemical sample analyses were conducted by SGS (Lakefield) Canada Inc.; a laboratory audited by the Canadian Association for Laboratory Accreditation Inc. (CALA) and accredited by the Standards Council of Canada (SCC). Accreditation ensures that the laboratory has acceptable laboratory protocols and test methods in place. It also requires the laboratory to provide evidence and assurances of the proficiency of the analysts performing the test methods.

6.3 Operation by Licensed Operators

The WPCP was operated and maintained by licensed operators. The mandatory licensing program for operators of sewage treatment facilities in Ontario is regulated under the Ontario Water Resources Act (OWRA) Regulation 435/93 and Ontario Regulation 129/04. A Licensed individual has successfully passed the licensing exam and meets the education and experience requirements set out in the regulation.

6.4 Sampling and Analysis

The Ontario Clean Water Agency followed a sampling and analysis schedule that meets the requirements of the ECA.

6.5 In-house Analysis

In-house samples were collected and analyzed at the WPCP laboratory throughout the year in order to support process performance monitoring, adjustment, and optimization. In-house analysis were conducted by licensed operators for monitoring purposes using Standard Methods. The data generated from these tests was used to determine the treatment efficiency while maintaining process control. All in-house monitoring equipment was calibrated based on the manufacturer's recommendations. The Operators of the facility continue to use their expertise in order to meet our objective of no exceedances of the ECA Effluent Compliance

Objective and Compliance Limits and OCWA will continue to make best efforts to meet the ECA Effluent Objectives and Compliance Limits.

6.6 Calibrations

Third-party and in-house calibrations were completed on various equipment and monitoring and analysis items as required based on manufacturer's recommendations. Refer to Section 7 for more information regarding calibration of monitoring equipment.

7. Calibration of Monitoring Equipment

ECA 0766-CM9RQA, Section 11.4(f) requires:
"a summary of the calibration and maintenance carried out on all Influent, Imported Sewage and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;"

As per Section 9(4)(a)(b)(c) of the ECA, the flowmeters used to measure influent flow to the Sewage Treatment Plant by a continuous flow measuring device and final effluent flow discharged from the Sewage Treatment plant by a continuous flow measuring device were calibrated on September 11, 2023 by Indus Control. All flow meters passed verification and the measurements were listed as "works within specification". Refer to *Appendix C* for a copy of the calibration records.

There was no imported sewage received for co-treatment at Wasaga Beach WPCP for the reporting period.

8. Effluent Objective Results and Efforts

ECA 0766-CM9RQA, Section 11.4(g) requires: *"a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:*

i. when any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend in deterioration of Final Effluent quality;

ii. when the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity;"

Where: Condition 6 is "*imposed to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occur and before the compliance limits of Condition 7 are exceeded."*

8.1 Effluent Quality Design Objectives and Annual Average Daily Influent Flow

The following table summarizes the percentage of time in the reporting period the design objectives were achieved:

Table 21: Percentage of Time Design Objectives were Achieved in 2023

Parameter	% of Time Objectives were Achieved
$CBOD_5$	100
Total Suspended Solids	98
Total Phosphorus	99
Ammonia + Ammonium (May 1 to Nov 30)	75
Ammonia + Ammonium (Dec 1 to Apr 30)	96
E. coli	100
pH	98.78

**Percentage calculated based on number of samples collected during the reporting period*

**As per Schedule B of ECA 5669-BWJPYC, there are no listed loading objectives for $CBOD_5$, Total Suspended Solid, Total Phosphorus or Total Ammonia Nitrogen. Schedule C of the ECA only provides Loading Limits.*

Design Objectives were achieved far greater than 50% of the time in 2023 for all of the above listed parameters. The specific results of the parameters are summarized in Tables 8 to 17 and detailed results can be found in *Appendix A – Annual Flow & Effluent Quality Summary*. There was no increased trend in the deterioration of the effluent quality, in fact, the WPCP performance improved in meeting design objectives when compared to 2022 results.

As per Table 3, the Annual Average Daily Influent Flow for 2023 was 6,434.25 m^3/day or 41.69% of the Rated Capacity (15,433 m^3/day). There were no days during the reporting period where influent flows exceeded the Rated Capacity. Therefore no proactive actions are required in regards to addressing flows.

As per ECA 0766-CM9RQA, Section 6 (1)(b), OCWA used their best efforts to ensure that the Effluent was essentially free of floating and settleable solids, and did not contain oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discolouration on the receiving waters throughout the reporting period.

8.2 Efforts Made to Achieve Design Objectives, Assessment of Issues and Recommendations for Proactive Actions

For the reporting year, below is a breakdown of each parameter and when ECA limits or objectives were not met. For more details, see *Section 4, Operational Issues and Corrective actions*.

8.2.1 $CBOD_5$

As per the Schedule D, Carbonaceous Biochemical Oxygen Demand ($CBOD_5$) Monitoring Program is required to be sampled monthly. As a proactive approach to sampling, OCWA has been sampling $CBOD_5$ bi-weekly. Schedule B lists the Final Effluent Design Concentration Objectives, and Schedule C lists the Final Effluent Concentration Compliance Limits. As per Schedule C, the $CBOD_5$ Annual Average Effluent Concentration objective limit is 5.0 mg/L, and 10.0 mg/L is the compliance limit. In the reporting period, the $CBOD_5$ Annual Average of 2.41 mg/L was below both the objective and compliance limit.

8.2.2 Total Suspended Solids

As per the Schedule D, Total Suspended Solids (TSS) Monitoring Program, TSS is required to be sampled monthly. As a proactive approach to sampling, OCWA has been sampling TSS bi-weekly. Schedule B lists the Final Effluent Design Concentration Objectives and Schedule C lists the Final Effluent Concentration Compliance Limits. As per Schedule C, the TSS Annual Average Effluent Concentration objective limit is 5.0 mg/L, and 10.0 mg/L is the compliance limit.

During the reporting period there were 4 single sample instances on February 28, March 14, April 22 and August 15 were the TSS objective was not met. Overall, for the reporting period, TSS annual average effluent objective and compliance limits were met in 2023.

8.2.3 Total Phosphorous

As per the Schedule D Monitoring Program, Total Phosphorus (TP) is sampled on a weekly basis. Schedule B lists the Final Effluent Design Concentration Objectives, and Schedule C lists the Final Effluent Concentration Compliance Limits. During the report year there were 2 single samples that did not meet the TP objective on August 1 and August 22 which was caused by higher influent TP loading. Overall for 2023, the TP monthly average effluent concentration was met during each reporting month of the year.

8.2.4 Total Ammonia Nitrogen

As per the Schedule D Monitoring Program, Total Ammonia Nitrogen (TAN) is required to be sampled weekly. Schedule B lists the Final Effluent Design Concentration Objectives, and Schedule C lists the Final Effluent Concentration Compliance Limits. Compliance limits and objectives are divided into two reporting periods. May 1 to November 30, the objective is 1.0 mg/L and compliance limit is 1.1 mg/L. December 1 to April 30, the objective is 4.0 mg/L and the compliance limit is 5.0 mg/L. If any sample exceeds the limit, it is reportable as a non-compliance. There were three instances in the reporting year when the ECA objective (and limit) were not met on May 30, July 4 and August 8. See section *Operational Issues and Corrective Actions for more information*

8.2.5 pH

As per ECA 0766-CM9RQA, Section 6 (2) (a), efforts were made to maintain the pH of the effluent within the range of 6.5 to 8.5. For approximately 99.9% of the reporting period, pH was maintained within the objective range. At no time in the reporting period, did pH exceed the upper objective limit (8.50). All samples were in compliance with the ECA final effluent limits (6.0 to 9.0).

On the following dates, effluent single sample results for pH were below the objective minimum range (6.5 to 8.5), in all cases the corrective action was to reduce the alum dosage.

- November 29- pH result of 6.26
- December 1- pH result of 6.48
- December 4- pH result of 6.49
- December 5- pH result of 6.49

9. Sludge Production and Disposal

ECA 0766-CM9RQA , section 11.4(h) requires:
"a tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;"

The biosolids produced at the Wasaga Beach WPCP were hauled by Region of Huronia Environmental Services Ltd. (ROHES) under Certificate of Approval #7383-4LAHXD dated March 31, 2011 and applied to OMAFRA approved "NASM Plans" based on Ontario Regulation 338/09 made under the Nutrient Management Act, 2002. NASM Plans under the NMA are issued to the owner (farmer) who is responsible for managing this plan with assistance from the NASM Plan Developer.

9.1 Volume of Sludge Generated in Reporting Period

During the reporting period, a total volume of 19,068.40 m^3 sludge or biosolids was removed from the Wasaga Beach WPCP and was hauled by Region of Huronia Environmental Services (ROHES). The sludge was either delivered to lagoons for storage or applied as soil conditioner to agricultural land

Table 19 shows a monthly tabulation of the hauled sludge and the locations of where the sludge was disposed. For a detailed record of specific sludge haulage dates and volumes refer to *Appendix D – Sludge Quality & Quantity Data.*

Table 22: Wasaga Beach WPCP Biosolids Hauled

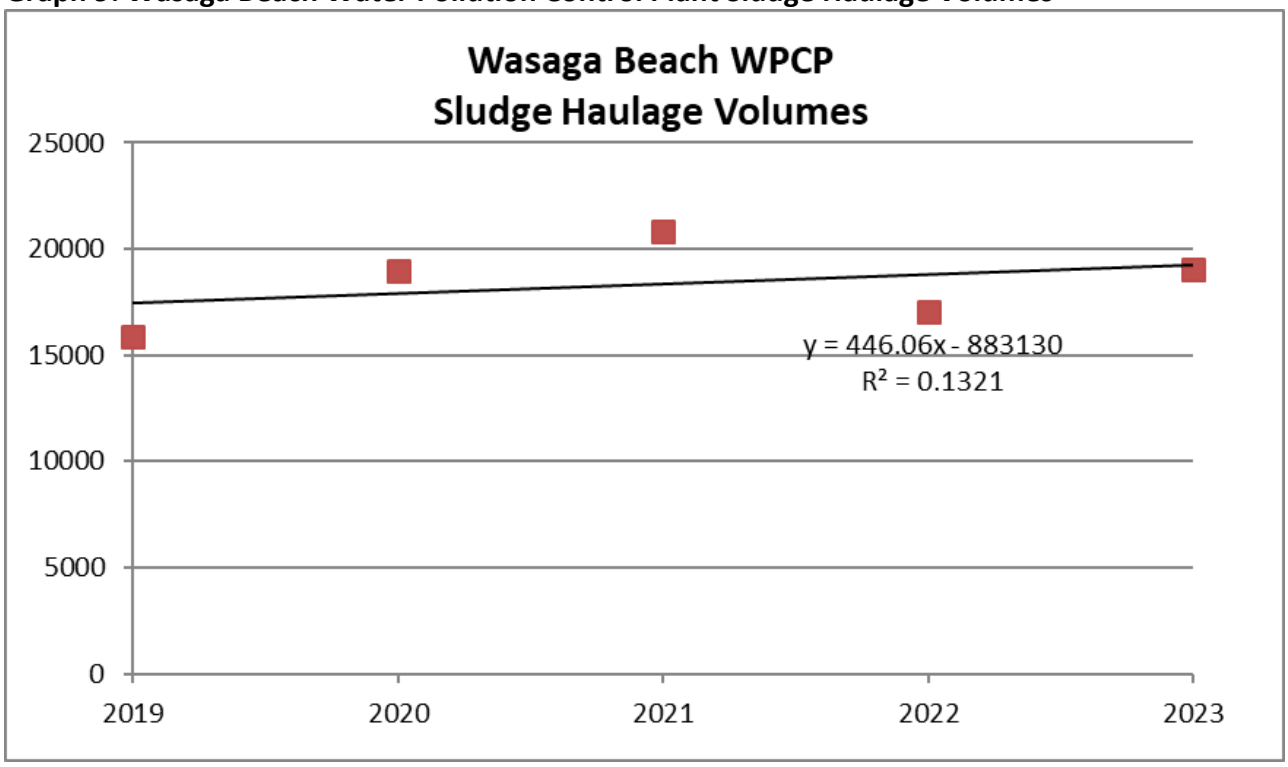
Month	NASM #	Hauled To	Volume (m^3)
April	24891	Lamers-Field:2	2,772.00
May	60173	Grain Bins-Field:1	4,918.20
	24507	Phil Desroches-Field:F1	168.00
August	24112	Draper-Field:1	4,064.40
	24303	Martin-Field:1	372.40
September	24303	Martin-Field:1	2,641.00
October	23727	Ververs-Field:1	1,470.00
	23893	Storage-Field:F1	2,662.40
		Total Volume Hauled in 2023	**19,068.40**

During the reporting period, a total volume of 19,068.4 m^3 of sludge was hauled from Wasaga Beach WPCP. In previous years the total volume hauled was 15,860.2 m^3, 18,985.4 m^3, 20,841 m^3 and 17,029.60 m^3 for 2019, 2020, 2021 and 2022 respectively. From 2022 to 2023 there was a 12% (5,295.60 m^3) increase in sludge hauled.

Typically, to estimate the volume of sludge generated in the next reporting period, a linear regression using data from previous years is used. The regression model estimates the sludge volume for 2024 to be approximately 21,587 m^3. However, given the low R^2 value (0.1321, see Graph 9) the regression model would not accurately estimate sludge volumes for 2024. The closer the R^2 value is to 100%, the better the regression model fits to the data.

The Wasaga Beach WPCP Biosolids complex has been undergoing upgrades since 2021 and has been included as part pf the Proposed Works in the most recent ECA. Upon completion of the dewatering upgrade, it is anticipated that sludge haulage volumes will continue to reduce through biolsolids thickening technologies.

Graph 9: Wasaga Beach Water Pollution Control Plant Sludge Haulage Volumes



Biosolids produced at the Wasaga Beach WPCP met all the quality criteria specified in the Regulation for the reporting period. A summary of the Wasaga Beach WPCP sludge quality with a comparison to quality criteria can be referenced in *Appendix D – Sludge Quality Data*.

10. Community Complaints

Where ECA 5569-BWJPYC, section 11.4(i) requires:
"a summary of any complaints received and any steps taken to address the complaints;"

There is a standard operating procedure that outlines the steps required for receiving and addressing community complaints. All complaints are to be discussed and/or investigated, and resolved as required. The community complaint is logged in detail in OCWA's electronic database system "Maximo" This database contains the history of all complaints with the relevant information enclosed.

During the reporting period, OCWA, the Town of Wasaga Beach, and the Ministry of the Environment, Conservation and Parks (MECP) received One (1) complaint from residents regarding Wasaga Beach WPCP.

10.1 Wasaga Beach WPCP Community Complaints Received

In the reporting period one (1) community complaint or inquiry related to the Water Pollution Control Plant was received:

May 12, 2023 – Biosolids Spill Incident, a community complaint regarding sludge on the trails adjacent to the WPCP was received by the Town. For more details see Section 11.3 below and Appendix E for more details.

11. Bypasses, Overflows, Spills or Other Abnormal Discharge Events

Where ECA 0766-CM9RQA, Section 11.4(j) requires: *"a summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events;"*

There were six (6) reportable bypass events, zero (0) overflow events, and one (1) spill and/or abnormal discharge events for the reporting year. For further details, see Section 11.1, 11.2 and 11.3. A complete copy of each Environmental Incident Report submitted the Ministry of the Environment, Conservation and Parks, Spills Action Centre and Ministry of Health for all reportable events can be found in *Appendix E*.

During the reporting period, quarterly bypass, overflow and spill event reports were submitted to the MECP by the required deadlines as listed in the EC

11.1 WPCP Bypass Events during the Reporting Period

Below, *Table 20* is a summary of the six (6) bypass events that occurred at the WPCP. For details see *Appendix E- Bypass, Spill or Abnormal Discharge*:

Table 23: Wasaga Beach WPCP Bypass Events

Date	Estimated Volume (m^3)	Details
January 10, 2023	$18m^3$	SAC Reference Number: 1-2G4TCU Treatment By-passed: Disc Filters Treatment Provided: Headworks, Process, Clarifier, UV Duration: 8 Minutes Approximate Volume: 18 m^3 <u>Incident Description</u> A momentary high turbidity event caused of a bypass of the disc filters. The inlet channel and filter box level was high, resulting in a brief bypass event of the disc filters at approximately 1412 hrs. <u>Actions and Corrective Actions Taken</u> Opened the sand filter inlet; Turned off Return Activated Sludge Pump (RASP); Dropped equalization tank gate to divert raw flow. Manual backwash on both the disc filters and returned to auto. Sand filter bed maintenance. Secondary effluent that had bypassed the filters was UV disinfected. Samples were collected as per the ECA at 1444hrs. <u>Reporting Communication</u> January 10, 2023 verbal and written notifications: the Spills Action Centre (SAC) Simcoe Muskoka District Health Unit (SMDHU), The Town of Wasaga Beach, the Public Notification of Spills, Bypass and Overflow Downstream User Notification Form to be posted on Municipal Website. January 11, 2023, notified local MECP Inspector
February 14, 2023	$1m^3$	SAC Reference Number: 1-2JO37G Treatment Bypassed: Disc Filters Treatment Provided: Headworks, Process, Clarifier, UV Duration: 5 Minutes (intermittently) Approximate Volume: 1 m^3 <u>Incident Description</u> After maintenance was completed, in the process of putting disc filter 1 back online, the water was too low for the backwash pumps to run. When the filters fouled the inlet box overflowed into the UV channel. 1 m3 of secondary effluent bypassed Disc filter 1. <u>Actions and Corrective Actions Taken</u> Filled Disc Filter 1 effluent box with potable water; manually backwashed and opened inlet valves by 1.5 turns. Returned disk filter 1 to auto once normal conditions stabilized. Samples were collected as per the ECA. <u>Reporting Communication</u> February 14, 2023 verbal and written notification: the Spills Action Centre, Simcoe Muskoka District Health Unit (SMDHU), local MECP

		Inspector, The Town of Wasaga Beach, Public Notification of Spills, Bypass and Overflow Downstream User Notification Form posted on municipal website.
March 7, 2023	8 m^3	SAC Reference Number: 1-32F6Z3 Treatment By-passed: Disc Filters Treatment Provided: Headworks, Process, Clarifier, UV Duration: Less than a minute Approximate Volume: <8 m^3 <u>Incident Description</u> A chemical cleaning cycle was initiated during a backwash cycle. The cleaning cycle shutdown the backwash pumps and disk filter rotation, causing a very brief bypass event (less than one minute). <u>Actions and Corrective Actions Taken</u> A manual backwashing was immediately initiated. Influent levels dropped below bypass overflow point in less than one minute. Samples collected as per the ECA. <u>Reporting Communication</u> March 7, 2023 verbal notification: the Spills Action Centre, Simcoe Muskoka District Health Unit (SMDHU), March 8, 2023 verbal and written notification: local MECP Inspector, The Town of Wasaga Beach- Public Notification of Spills, Bypass and Overflow Downstream User Notification Form sent.
July 13, 2023	1 m^3	SAC Incident Number: 1-3MRSYC Treatment By-passed: Disc Filters Treatment Provided: Headworks, Process, Clarifier, UV Duration: roughly 10 minutes Approximate Volume: less than 1 m^3 <u>Incident Description</u> Filter Inlet High Level ALARM, inlet channel overflowing; <u>Actions and Corrective Actions Taken</u> Opened sand filter inlets. A sample was collected as per the ECA. <u>Reporting Communication</u> Verbal notification was provide to SAC, MECP, MOH and The Town of Wasaga Beach- Public Notification of Spills, Bypass and Overflow Downstream User Notification Form provided on July 13, 2023, written notification provided July 14, 2023.
July 20, 2023	100 L	SAC Reference Number: 1-3NPNQK Treatment By-passed: Disc Filters Treatment Provided: Headworks, Process, Clarifier, UV Duration: approximately 33 minutes Approximate Volume: approximately 100 L <u>Incident Description</u> A heavy rain event Filter Inlet High Level ALARM; filter inlet channel overflowed <u>Actions and Corrective Actions Taken</u>

		Opened Sand Filter 3 inlet from partially to fully open. Disk Filter 1 & 2 inlets opened one more turn. Samples collected as per the ECA. Reporting Communication Verbal notification was provide to SAC, MECP and the MOH July 20, 2023. Written notification submitted July 24, 2023"
December 21, 2023	1090 L	SAC Reference Number: 1-JUFCA Treatment By-passed: Disc Filter #2 Treatment Provided: Headworks, Process, Clarifier, UV Duration: approximately 3 minutes Approximate Volume: 1090 L Incident Description Disc Filter 2 back wash pump motor faulted, causing it to bypass Actions and Corrective Actions Taken Disc Filter 2 was taken out of service. Samples collected as per the ECA. Backwash pump motor overload switch replaced. Reporting Communication Verbal notification was provide to SAC, SMDHU and MECP December 21, 2023. Written notification sent December 22, 2023

11.2 WPCP Overflow Events during the Reporting Period

In the reporting period, no (0) overflow events occurred at the WPCP.

11.3 WPCP Spills or Abnormal Discharge Events

Within the reporting period, one (1) spill and no (0) other abnormal discharge events occurred at the WPCP.

Table 24: Wasaga Beach WPCP Spills or Abnormal Discharge Events

Date	Estimated Volume (m^3)	Details
May 12, 2023	1, 400 m^3	SAC incident #1-3GIJH8 Spill Location: On Land- area surrounding the Biosolids Building and adjacent MNR parkland Duration: Unknown Spill Contents: Biosolids Material- NASM certified and ready for land application Incident Description Region of Huronia Environmental Services (ROHES) arrived to haul biosolids. A check-valve failure led to the biosolids contents spilling out from the valve/sludge transfer pumps and out onto the surrounding area in the WPCP complex and adjacent property. Actions and Corrective Actions Taken Stopped sludge pump, directed flow to Sludge Storage 2 and back

		into process. All trails in the parkland/forest were closed to public access. Cleaned up spill May 12 to May 18, 2023. May 8, 2023 prior to field application as per NASM guidelines a sample had been taken. Checked the alarming system. Performed root cause analysis on why check valve failure occurred - possibility was check valve was left open to prepare for sludge haulage. Reporting Communication May 12, 2023- Verbal and written notification was provided to the MNR, SAC, MOH-SMDHU and local MECP.

12. Notices of Modification (Limited Operational Flexibility)

ECA 0766-CM9RQA Section 11.4 (k) requires:
"a summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Condition 10, including a report on status of implementation of all modification."

Where: Schedule B, Section 1 is the "Limited Operational Flexibility Criteria for Modifications to Municipal Sewage Works."

During the reporting period, there were no Notices of Modification submitted to the ministry.

OCWA continues to use XLR8 from the Notice of Modification submitted on March 13, 2016. The notice outlined that operational staff would; "*Continue with the addition of a bio-engineered industrial waste degrader XLR8 to the aerobic digesters for odour control as per ECA No. 5523-A3ZQQ8",* past the one year pilot study which ended on June 22, 2016.

XLR8 is a highly concentrated, scientifically developed, naturally bio-energized waste degrader which uses the power of highly diverse strains of bacterial/enzymatic activity to efficiently break down organic waste. On a weekly basis, Operations Staff will brew 3 lbs. of XLR8 and add to the Digester(s) prior to transferring contents to the sludge storage tanks #1 and or #2 at Wasaga Beach WPCP.

For a copy of Notice of Modification #1 and correspondence with the MECP Barrie District Office regarding the Limited Operational Flexibility, refer to *Appendix F – Notice of Modification to Sewage Works.*

13. Conformance with Procedure F-5-1

ECA 0766-CM9RQA, Section 11.4 (l) requires:
"a summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to projects undertaken and completed in the sanitary sewer system that result in overall Bypass/Overflow elimination including expenditures and proposed projects to eliminate Bypass/Overflows with estimated budget forecast for the year following that for which the report is submitted."

The Wasaga Beach WPCP operated at an adequate levels during the reporting period to ensure the requirements outlined in the ECA were met on a reliable basis. As required, the Town of Wasaga Beach and OCWA continue to promptly resolve operational issues related to bypasses and overflows with emergency/preventive repairs and upgrade implementation and recommendations. The below table outlines the major upgrades and replacement projects to support mitigation of bypass and overflow events are outlined in the multi-year Capital Plan for the WPCP:

Table 25: Summary of Proposed Works to Eliminate Bypass/Overflow Events

Proposed Works	Estimated Budget Allocation	Proposed Year
WPCP Barscreen Upgrade Project Design	$ 75,000	2024
UV System Upgrades	$ 2,055,044	2024

14. Changes to Scheduled Works in the Proposed Works

Where ECA 5569-BWJPYC, CLI-ECA #0766-CM9RQA Section 11.4(m) requires:
"any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works."

The Proposed Works outlined in ECA 5569-BWJPYC were all completed and Notice of Completions were submitted to the MECP for the Tertiary System Disk Filter Upgrades. The recently issued ECA No. 0766-CM9RQA includes those in the completed works and new Proposed Works to the Sludge Management System that have mostly been completed. Those Proposed Works and status updates are outlined as follows:

Table 26: Summary of Proposed Works Completion and Upgrades

Sludge Digestion
Completed:

- convert one (1) of the existing 1,559 m3 □ digested sludge storage tank to an aerobic digester (stage I chamber), equipped with wide band diffusers;
- replace the existing coarse bubble diffusers with wide band diffusers for the existing sludge storage tank (SHT 1) and for the existing aerobic stage I chamber and stage II chamber;
- two (2) identical turbo blowers (one duty, one standby) to be installed in the blower room of the existing biosolids building, each having a capacity of 7,996 m3/h at 55 kpag;
- decommissioning and removal of three (3) of the four (4) existing centrifugal blowers

Incomplete:

- replace the existing jet mixing pump with a new pump having the capacity of 410 L/s at

a total dynamic head (TDH) of 16 m for the existing sludge storage tank (SHT 2);
Sludge Thickening Incomplete: one (1) sludge thickening system to be installed and housed in a new sludge thickening building consisting of: • one (1) pre-selected rotary drum thickener (RDT) having a capacity of 103 m3 /d (7d/wk), complete with flocculation tank; • one (1) packaged polymer system with mixing chamber and metering pump; • one water booster pump for RDT backwash; • one (1) thickened sludge pump having a capacity of 1.6 L/s at a TDH of 9.0 m to transfer

15. Monitoring Schedule

Where ECA 0766-CM9RQA, Section 11.4(n) requires:
"a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;"

As per the ECA, Section 9(1) "the Owner shall, upon commencement of operations of the Works, carry out a scheduled monitoring program of collecting samples at the required sampling points, at the frequency specified or higher, by means of the specified sample type and analyzed for each parameter listed in Schedule D and record all results.

Where, Section 9(1) requires:

- (a) all samples and measured are to taken at a time and in a location character characteristic of the quality and quantity of sewage stream over the period of time being monitored and follows the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater Version 2.0" (January, 2016) at the prescribed frequency.

- (c) at a frequency where (i) Weekly means once every week; (ii) Monthly means once every month; and (iii) Quarterly means once every three months.".

- (d) and that a schedule of the day of the week/month for the scheduled sampling shall be created and that be schedule be revised and updated every year through the rotation of the week/month for the sampling program.

As per the ECA, Wasaga Beach WPCP weekly, bi-weekly and monthly sampling requirements were rotated and scheduled to be taken on Tuesdays of 2023. During the reporting year, the Wasaga Beach WPCP had one (1) deviation from the monitoring schedule:

- February 21, 2023 – Weekly influent (raw) sample schedule for Tuesday, February 21 was sampled on Wednesday, February 22, 2023 as there was a problem with the automatic composite sampler

The monitoring schedule (sampling calendar) for the next reporting year can be found in *Appendix G – Sampling Schedule*. The sampling calendar was issued December 19, 2023 and designed to meet the monitoring program, frequency and schedule rotation requirements in the ECA a described above.

16. Municipal Sewage Collection System- Annual Performance Report

This section of the report was prepared in accordance with the requirements of the Environmental Compliance Approval for a Municipal Sewage Collection Systems, Schedule E, Section 4.6.1.

Municipal Sewage Collection System ECA #	131-W601, Issue 1
Sewage Works	Wasaga Beach Sewage Collection System
Collection System Owner	The Corporation of the Town of Wasaga Beach
Reporting Period	January 1, 2023 to December 31, 2023

Is the Annual Report available to the public at no charge on a website on the Internet?

Yes

Location where Annual Performance Report required under CLI-ECA #131-W601, Schedule E will be available for inspection. *(CLI-ECA #31-W601, Section 4.6.1, 4.7.1 & 4.7.2):*

- Town of Wasaga Beach Public Works Office, 150 Westbury Road, Wasaga Beach, Ontario, L9Z 0C8
- http://www.wasagabeach.com

Pursuant to Schedule E, sections 4.6.3 to 4.6.9, this Annual Performance Report shall:

a) If applicable, includes a summary of all required monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized System or system operations.

b) If applicable, include a summary of any operating problems encountered and corrective actions taken.

c) Includes a summary of all calibration, maintenance, and repairs carried out on any major structure, Equipment, apparatus, mechanism, or thing forming part of the Municipal Sewage Collection System.

d) Include a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.

e) Include a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat.

f) Include a summary of all Collection System Overflow(s) and Spill(s) of Sewage.
   i. Dates;
   ii. Volumes and durations;
   iii. If applicable, loadings for total suspended solids, BOD, total phosphorus, and total kjeldahl nitrogen and sampling results for E.Coli;
   iv. Disinfection, if any; and
   v. Any adverse impacts(s) and any corrective actions, if applicable

g) Includes a summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses, including the following items, as applicable:
   i. A description of projects undertaken and completed in the Authorized System that result in overall overflow reduction or elimination including expenditures and proposed projects to eliminate overflows with estimated budget forecast for the year following that for which the report is submitted.
   ii. Details of the establishment and maintenance of a PPCP, including a summary of project progresses compared to the PPCP's timelines.
   iii. An assessment of the effectiveness of each action taken.
   iv. An assessment of the ability to meet Procedure F-5-1 or Procedure F-5-5 objectives (as applicable) and if able to meet the objectives, an overview of next steps and estimated timelines to meet the objectives.
   v. Public reporting approach including proactive efforts.

16.1 Description of the Works

The Town of Wasaga Beach Municipal Sanitary Collection System consists of works for the collection and transmission of municipal sewage, consisting of trunk sewers, separate sewers, twenty-one sewage pumping stations, and forcemains, with discharge into the Wasaga Beach Water Pollution Control Plant, a Class II Waste Water Collection Facility. There are no Combined Sewage Pumping Stations, combined sewers or combined sewage storage tanks or storage

structures. The majority of sewage to the WPCP is pumped from SPS #9, which delivers flow from seventeen pump stations located across the Town of Wasaga Beach.

Prior to June 9, 2022, eighteen of the twenty-one pumping stations were captured under the WPCP ECA, while SPS #19, known as the 'Georgian Sands Sewage Pumping Station' was captured under Amended Environmental Compliance Approval (ECA) #0913-BVVLXF, SPS #20 located at the Villas of Upper Wasaga, was captured under Amended ECA #2942-AM3Q42 and SPS#21, referred to as 'the Sunnidale Trails Sanitary Pumping Station' was captured under ECA #9905-ATLM3W. On June 9, 2022, Municipal Sewage Collection System ECA Number 131-W601, Issue 1, was issued to the Wasaga Beach Sewage Collection System incorporating all Pumping Stations, sewers, separate sewers and forcemains into one Consolidated Linear Infrastructure ECA. As such, all prior ECAs, issued by the Director for Sewage Works are considered revoked and replaced by ECA Number 131-W601.

16.2 Summary of Monitoring Data and Interpretation

No monitoring data was required within the municipal sewage collection system for the reporting period.

16.3 Summary of Operating Problems Encountered and Corrective Actions Taken

There were no operating problems encountered during the reporting period.

16.4 Summary of Calibration, Maintenance, and Repairs

Preventative maintenance is scheduled for all equipment at the sewage treatment plant and pumping stations at regular frequency (frequency depends on the equipment and type of maintenance). Maintenance activities are scheduled within the work management system Maximo, upon completion, operators set the work order to complete. On a monthly basis, preventative work orders are reviewed for completion.

The calibration, maintenance, and repairs completed throughout the reporting period were as follows:

- Weekly alarm testing – All sewage pump stations (SPS)
- Interior lighting LED retro fit – SPS 3, 9
- Plumbing repair – SPS 7, 8
- Generator 5 year service & repair – SPS 3, 15, 20
- Exterior hose bib replacement – SPS 7, 8
- Roof repair – SPS 3
- Outside receptacle replacement – SPS 15
- Alarm dialer install/upgrade – SPS 3, 7, 8, 9, 14
- Generator repair – SPS 9

- Discharge pipe repair – SPS 3, 9, 11
- Wet well hatch repair/replacements – SPS 3, 9
- RSP starter relay replacement – SPS 2: RSP 3
- Raw sewage pump (RSP) repair – SPS 3, 9, 19
- RSP replacement – SPS 2: RSP 4
- Sanitary sewer flushing program

16.5 Community Complaints Received in Relation to the Sewage Works

The below table summarizes the 2023 community complaints regarding the municipal collection system.

Table 27: Wasaga Beach Municipal Collection System Community Complaints:

2023	Details of Community Complaints
January 17, 2023	• Sewer backup- internal homeowner issue
July 20, 2023	• Sewer back-up- sewer main backup blockage removed
August 9, 2023	• Sewer back-up- internal homeowner issue
August 12, 2023	• Sewer-back-up- un-assumed road- contractor cleared
August 27, 2023	• Sewer back-up- pipe separation at clean-out repaired
September 28, 2023	• Sewer back-up- collapsed lateral
October 13, 2023	• Basement sewer smell- caused by gas leak
December 10, 2023	• Sewer back-up- blockage at cleanout cleared
December 12, 2023	• Sewer back-up- clean-out installed too low, fixed
December 18, 2023	• Sewer odour- private sewer lateral issue
December 21, 2023	• Sewer odour- from maintenance hole on Knox Road, increased flow running a tap at SPS 21

16.6 Alterations to the Authorized System

Any authorized changes made to the Authorized System within the reporting are listed in Section 16.4 of this report. No alterations posed a Significant Drinking Water Threat.

16.7 Summary of Collection System Overflow(s) and Spill(s) of Sewage

There were no collection system overflows or spills during the reporting period.

16.8 Efforts Made to Reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses

Proposed Works	Estimated Budget Allocation	Proposed Year
SPS Pump Repairs, Maintenance, and replacements	$ 178,250	2024
SPS Update Alarm Dialers and Emergency Power Suppliers	$ 25,000	2024

The sewage pumping stations are equipped with alarm monitoring for high wet well level events. Preventative maintenance procedures are in place to ensure the sewage pumping stations are operating as designed include:

- Semi-weekly Pump Station Inspection
- Weekly Alarm Testing
- Monthly generator checks and runs
- Annual wet well Cleanouts
- Regular Pump Inspections
- Regular generator inspection and maintenance

2023 Annual Performance Report

Appendix A

Performance Assessment Report: Influent and Effluent Flows, Water Quality Data

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Performance Assessment Report Standard ECA

From 1/1/2023 to 12/31/2023 11:59:59 PM

5004 WASAGA BEACH WASTEWATER TREATMENT FACILITY 120001862

	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 Sewage m³/d	180,523.00	175,715.00	199,047.00	247,010.00	200,751.00	178,822.00	254,495.00	210,516.00	167,016.00	177,781.00	167,410.00	189,416.00	2,348,502.00			0.00
Raw Flow: Avg - Raw Sewage m³/d	5,823.32	6,275.54	6,420.87	8,233.67	6,475.84	5,960.73	8,209.52	6,790.84	5,567.20	5,734.87	5,580.33	6,110.19		6,434.25		15,433.00
Raw Flow: Max - Raw Sewage m³/d	8,052.00	8,629.00	9,166.00	12,992.00	8,642.00	8,355.00	12,309.00	8,399.00	7,256.00	8,337.00	6,673.00	7,567.00			12,992.00	0.00
Raw Flow: Count - Raw Sewage m³/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 - Final Effluent m³/d	187,468.00	178,430.00	204,438.00	251,110.00	205,654.00	182,950.00	259,824.00	214,552.00	168,944.00	181,466.00	170,160.00	193,540.00	2,398,536.00			0.00
Eff. Flow: Avg - Final Effluent m³/d	6,047.35	6,372.50	6,594.77	8,370.33	6,634.00	6,098.33	8,381.42	6,921.03	5,631.47	5,853.74	5,672.00	6,243.23		6,571.33		
Eff. Flow: Max - Final Effluent m³/d	8,248.00	8,748.00	9,322.00	13,272.00	8,826.00	8,380.00	12,736.00	8,468.00	7,240.00	8,532.00	6,610.00	7,852.00			13,272.00	0.00
Eff Flow: Count - Final Effluent m³/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
Biochemical Oxygen Demand: BOD5																
Raw: Avg BOD5 - Raw Sewage mg/L	197.40	220.00	178.00	131.25	223.60	429.75	276.75	357.40	400.00	300.00	313.00	293.00		276.68	429.75	0.00
Raw: # of samples of BOD5 - Raw Sewage mg/L	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
Carbonaceous Biochemical Oxygen Demand: CBOD																
Eff: Avg cBOD5 - Final Effluent including Bypass mg/L	< 2.25	< 3.00	< 2.33	< 2.33	< 3.00	< 2.00	< 3.00	< 2.00	< 2.00	< 2.00	< 2.00	2.67		< 2.41		10.00
Eff: # of samples of cBOD5 - Final Effluent including Bypass mg/L	4.00	3.00	3.00	3.00	2.00	2.00	4.00	4.00	2.00	2.00	2.00	3.00	34.00			0.00
Loading: cBOD5 - Final Effluent including Bypass kg/d	< 13.607	< 19.118	< 15.388	< 19.531	< 19.902	< 12.197	< 25.144	< 13.842	< 11.263	< 11.707	< 11.344	< 16.649		< 15.85	< 25.14	154.000
Total Suspended Solids: TSS																
Raw: Avg TSS - Raw Sewage mg/L	191.80	182.50	191.75	172.25	235.20	833.00	527.50	488.40	437.25	369.20	610.25	408.25		387.28	833.00	0.00
Raw: # of samples of TSS - Raw Sewage mg/L	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 TSS - Final Effluent including Bypass mg/L	8.00	5.00	6.67	< 4.00	< 3.00	4.00	4.00	5.75	2.00	2.00	< 2.00	2.67		4.47	8.00	10.00
Eff: # of samples of TSS - Final Effluent including Bypass mg/L	4.00	3.00	3.00	3.00	2.00	2.00	4.00	4.00	2.00	2.00	2.00	3.00	34.00			0.00
Loading: TSS - Final Effluent including Bypass kg/d	48.379	31.863	43.965	< 33.481	< 19.902	24.393	33.526	39.796	11.263	11.707	< 11.344	16.649		29.38	48.38	154.000
Total Phosphorus: TP																
Raw: Avg TP - Raw Sewage mg/L	3.28	3.28	2.34	2.56	3.88	9.68	6.63	7.01	7.33	6.94	7.05	6.93		5.57	9.68	0.00
Raw: # of samples of TP - Raw Sewage mg/L	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 TP - Final Effluent including Bypass mg/L	0.15	0.12	0.13	0.10	0.08	0.12	0.13	0.19	0.09	0.06	0.07	0.09		0.11	0.19	0.20
Eff: # of samples of TP - Final Effluent including Bypass mg/L	6.00	5.00	5.00	4.00	5.00	4.00	6.00	5.00	4.00	5.00	4.00	5.00	58.00			0.00
Loading: TP - Final Effluent including Bypass kg/d	0.877	0.790	0.884	0.816	0.504	0.717	1.090	1.287	0.493	0.375	0.383	0.574		0.73	1.29	3.100
Nitrogen Series																

Raw: Avg TKN - Raw Sewage mg/L	30.28	31.60	24.05	25.23	31.38	70.70	53.95	54.26	64.25	57.36	57.15	52.98		46.10	70.70	0.00
Raw: # of samples of TKN - Raw Sewage mg/L	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 TAN - Final Effluent including Bypass mg/L	< 0.17	< 0.10	< 0.10	< 0.13	< 0.60	< 0.13	0.33	0.58	< 0.18	0.10	0.15	0.14		< 0.23	< 0.60	5.00
Eff: # of samples of TAN - Final Effluent including Bypass mg/L	6.00	5.00	5.00	4.00	5.00	4.00	6.00	5.00	4.00	5.00	4.00	5.00	58.00			0.00
Loading: TAN - Final Effluent including Bypass kg/d	< 1.008	< 0.637	< 0.659	< 1.046	< 3.980	< 0.762	2.794	4.014	< 0.986	0.585	0.851	0.874		< 1.52	< 4.01	

Disinfection

Eff: GMD E. Coli - Final Effluent cfu/100mL	2.00	5.26	2.00	2.63	3.03	6.62	3.72	3.81	2.83	2.00	2.00	1.41				200.00
Eff: # of samples of E. Coli - Final Effluent cfu/100mL	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

2023 Annual Performance Report

Appendix B

Facility Work Order Summaries

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3180543	Pump Subm P1+P2 Insp/Srv Route PS#12 (1y) 5004	5004-SP12	PM	COMP	3 - PM	Richard Eagle	GBAY-MC1		5004PUSB	PUMSUB01-A	23-01-01	23-12-20	23-01-01
3205238	Pumps and VFD replacement PS5 - 5004-SP05	5004-SP05	CAP	APPR	4 - High	John Bristow	GBAY-MC1						23-01-20
3291608	WPCP Biosolids Catch Basin Drain Line Valve Replacement - CAPITAL	5004	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-03-28
3291609	WPCP Clarifiers 2&3 Main Drain Lines Valve Replacements - CAPITAL	5004	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-03-28
3341965	SPS#3 & #9 Wet Well Hatch Repairs - CAPITAL	5004-SP09	CAP	APPR	1 - Low	Richard Eagle							23-04-28
3385532	SPS#3 Genset 5-year Service and Repairs - CAPITAL	5004-SP03	CAP	COMP	1 - Low	Colin Kasperavicius	5004-OPS	0000082985				23-12-19	23-05-16
3385533	SPS#15 Genset 5-year Service and Repairs - CAPITAL	5004-SP15	CAP	COMP	1 - Low	Colin Kasperavicius	5004-OPS	0000092930				23-12-19	23-05-16
3385713	Meter Level Insp/Service PS#10 Wasaga (1y) 5004	5004-SP10	PM	COMP	3 - PM		GBAY-UPI	0000327195		METLEV02-A	23-05-18	23-12-19	23-05-18
3385903	SPS#3 Interior Lighting LED Retrofit - CAPITAL	5004-SP03	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-05-18
3385905	WPCP Exterior Lighting LED Retrofit - CAPITAL	5004	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-05-18
3385907	SPS#9 Interior Lighting LED Retrofit - CAPITAL	5004-SP09	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-05-18
3386948	SPS# 7 & 8 and WPCP Plumbing Repairs - CAPITAL	5004-SP07	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-05-26
3435849	WPCP Biosolids Sludge Transfer Pit Ultrasonic Level Repairs - CAPITAL	5004	CAP	APPR	2 - Medium	Stephanie Oddie	5004-OPS						23-06-28
3494211	Meter Level Wet Well Insp/Service PS19 WB (1y) 5004	5004-SP19	PM	COMP	3 - PM		GBAY-UPI	0000276815		METLEV06-A	23-08-01	23-12-19	23-08-01
3494214	Meter Level 01 Wet Well Insp/Service PS18 WB (1y) 5004	5004-SP18	PM	COMP	3 - PM		GBAY-UPI	0000291524		METLEV06-A	23-08-01	23-12-19	23-08-01
3494273	Pump Submersible Insp/Service PS10 Wasaga (1y) 5004	5004-SP10	PM	COMP	3 - PM		GBAY-MC1	0000276769		PUMSUB01-A	23-08-01	23-12-20	23-08-01
3571625	RSP #3 Bad Starter Relay 5004-SP02	5004-SP02	CORR	APPR	4 - High	Colin Kasperavicius	GBAY-MC1	0000082871					23-09-07
3571657	SPS#2 Pump 4 Replacement - CAPITAL	5004-SP02	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-09-07

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3573586	SPS#17 Discharge Elbow Repairs - CAPITAL	5004-SP17	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-09-15
3575481	SPS#3 Alarm Dialler Installation - CAPTIAL	5004-SP03	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-09-27
3575483	SPS#7 Alarm Dialler Installation - CAPITAL	5004-SP07	CAP	APPR	1 - Low	Colin Kasperavicius	5004-O&M						23-09-27
3575484	SPS#8 Alarm Dialler Installation - CAPITAL	5004-SP08	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-09-27
3575485	SPS#9 Alarm Dialler Installation - CAPITAL	5004-SP09	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-09-27
3575487	SPS#14 Alarm Dialler Installation - CAPITAL	5004-SP14	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-09-27
3575488	SPS#16 Alarm Dialler Installation - CAPITAL	5004-SP16	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-09-27
3575489	SPS#7 Vent Pipe Replacement - CAPTIAL	5004-SP07	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						23-09-27
3575491	WPCP RAS/WAS 1 Flow Meter Replacement - CAPTIAL	5004	CAP	APPR	1 - Low	John Bristow	5004-OPS						23-09-27
3620605	5004C - Annual Sewage Pumping Stations (ALL) Clean/Pump-Out (1y) - CAPITAL	5004-SP01	CAP	APPR	3 - PM		5105NSOP				23-10-03		23-10-03
3624427	Wiski7 Data Review Wasaga Beach WPCP (1m) 5004	5004	PM	COMP	3 - PM		GBAY-PCT	0000326875		FACREV04-M	23-11-09	24-01-03	23-10-25
3646127	Panel Breaker Main Inspection PS#12 (1y) 5004	5004-SP12	PM	COMP	3 - PM	John Bristow	GBAY-UPI	0000327176		PANBRE01-A	23-11-01	23-12-19	23-11-01
3665032	SPS#1 Pump Replacement - CAPITAL	5004-SP01	CAP	APPR	1 - Low	Richard Eagle	5004-OPS						23-11-17
3665342	UPS replacement - 5004-SP19	5004-SP19	CAP	COMP	4 - High	John Bristow						24-01-12	23-11-20
3666592	WPCP Building Repairs - CAPITAL	5004	CAP	APPR	1 - Low	Richard Eagle							23-11-29
3666615	PS# 6 Pump #4 Repair CAPITAL	5004-SP06	CAP	APPR	1 - Low	Colin Kasperavicius	GBAY-MC1	0000156688					23-11-29
3666798	SPS#14 Pump 2 Repair - CAPITAL	5004-SP14	CAP	APPR	1 - Low	Colin Kasperavicius	GBAY-MC1	0000083862					23-11-30
3675286	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	COMP	3 - PM		GBAY-OPS			FACINS01-W	23-12-01	24-01-04	23-12-01
3676597	Engine Diesel Sewage Insp/Srv PS09 Wasaga (1y) 5004	5004-SP09	PM	COMP	3 - PM		GBAY-MC1	0000082784		ENGDIE02-A	23-12-01	23-12-19	23-12-01

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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3676636	Engine Diesel Sewage Insp/Srv PS01 Wasaga (1y) 5004	5004-SP01	PM	COMP	3 - PM		GBAY-MC1	0000082841		ENGDIE02-A	23-12-01	23-12-19	23-12-01
3676675	Engine Diesel Genset Insp/Srv PS02 Wasaga (1y) 5004	5004-SP02	PM	COMP	3 - PM		GBAY-MC1	0000082888		ENGDIE02-A	23-12-01	23-12-19	23-12-01
3676714	Engine Diesel Gen Insp/Service PS03 Wasaga (1y) 5004	5004-SP03	PM	COMP	3 - PM		GBAY-MC1	0000082985		ENGDIE02-A	23-12-01	23-12-19	23-12-01
3676753	Engine Diesel Gen Insp/Service PS11 Wasaga (1y) 5004	5004-SP11	PM	COMP	3 - PM		GBAY-MC1	0000083065		ENGDIE02-A	23-12-01	23-12-19	23-12-01
3676792	Engine Diesel Genset Insp/Srv PS04 Wasaga (1y) 5004	5004-SP04	PM	COMP	3 - PM		GBAY-MC1	0000083090		ENGDIE02-A	23-12-01	23-12-19	23-12-01
3676831	Engine Diesel Sewage Insp/Srv PS15 Wasaga (1y) 5004	5004-SP15	PM	COMP	3 - PM		GBAY-MC1	0000092930		ENGDIE02-A	23-12-01	23-12-19	23-12-01
3706419	Meter Level PS12 Wet Well Inspection/Service (1y) 5004	5004-SP12	PM	COMP	3 - PM		GBAY-UPI	0000327175		METLEV02-A	23-12-21	24-02-02	23-12-21
3706524	Wasaga Beach WWTP- PCT Office- 2023 Annual Workplace Inspection Action Item- Declutter Office	5004	OPER	COMP	3 - PM	Michelle Neal	GBAY-PCT	0000326875				24-01-26	23-12-21
3706573	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	COMP	3 - PM		GBAY-PCT	0000326875		CLIENTR-02	24-01-06	24-01-18	23-12-22
3707343	RSP#2- Continuous temperature fault on Minicas	5004-SP07	CORR	APPR	4 - High	Colin Kasperavicius	GBAY-MC1	0000326881					23-12-29
3707458	OCWA Annual Workplace Inspection PS Wasaga (1y) 5004	5004-SP01	OPER	APPR	3 - PM		GBAY-H&S		5004PSTN	HSCWI-A	23-12-31		23-12-31

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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3161462	Facility Health & Safety Insp Collections PS#01 (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	1/1/23	1/20/23	1/1/23
3161926	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	1/1/23	2/3/23	1/1/23
3162688	Panel Annunciator Testing PS09 Wasaga B (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-OPS	0000082754		PANALA02-M	1/1/23	2/3/23	1/1/23
3162693	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	1/1/23	1/19/23	1/1/23
3162712	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	1/1/23	2/3/23	1/1/23
3162717	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	1/1/23	1/12/23	1/1/23
3162736	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	1/1/23	2/3/23	1/1/23
3162741	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	1/1/23	1/12/23	1/1/23
3162760	Panel Annunciator Testing PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082927		PANALA02-M	1/1/23	2/3/23	1/1/23
3162765	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	1/1/23	1/19/23	1/1/23
3162784	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	1/1/23	1/5/23	1/1/23
3162803	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	1/1/23	1/5/23	1/1/23
3162822	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	1/1/23	1/5/23	1/1/23
3162850	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	1/1/23	1/12/23	1/1/23
3162874	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	1/1/23	1/19/23	1/1/23
3162886	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	1/1/23	1/18/23	1/1/23
3162905	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	1/1/23	1/5/23	1/1/23
3162924	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	1/1/23	1/5/23	1/1/23

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Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3162943	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	1/1/23	1/19/23	1/1/23
3162974	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	1/1/23	1/13/23	1/1/23
3162993	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	1/1/23	1/12/23	1/1/23
3163306	MCC Inspection/Service PS01 Wasaga Beach (3y) 5004	5004-SP01	PM	CLOSE	3 - PM		GBAY-UPI	0000065919		MCC01-T	1/1/23	1/16/23	1/1/23
3163316	Panel Transfer Sewage Pump Insp/Service PS03 (3y) 5004	5004-SP03	PM	CLOSE	3 - PM		GBAY-UPI	0000082947		PANTRA01-T	1/1/23	1/23/23	1/1/23
3163339	Pump Cent 01 East Insp/Service BSMT PS09 (1y) 5004	5004-SP09	PM	CLOSE	3 - PM	Richard Eagle		0000065883		PUMCEN10A	1/1/23	6/13/23	1/1/23
3163357	Pump Cent 02 East Insp/Service BSMT PS09 (1y) 5004	5004-SP09	PM	CLOSE	3 - PM	Colin Kasperavicius		0000065884		PUMCEN10A	1/1/23	6/13/23	1/1/23
3163375	Pump Cent 03 East Insp/Service BSMT PS09 (1y) 5004	5004-SP09	PM	CLOSE	3 - PM	Colin Kasperavicius		0000065885		PUMCEN10A	1/1/23	6/13/23	1/1/23
3163393	Pump Cent 04 East Insp/Service BSMT PS09 (1y) 5004	5004-SP09	PM	CLOSE	3 - PM	Colin Kasperavicius		0000065886		PUMCEN10A	1/1/23	6/13/23	1/1/23
3163615	Pump Cent 01 Sewage Insp/Service PS03 WB (1y) 5004	5004-SP03	PM	CLOSE	3 - PM	Colin Kasperavicius		0000093250		PUMCEN10A	1/1/23	6/13/23	1/1/23
3163633	Pump Cent 02 Sewage Insp/Service PS03 WB (1y) 5004	5004-SP03	PM	CLOSE	3 - PM	Colin Kasperavicius		0000093251		PUMCEN10A	1/1/23	6/13/23	1/1/23
3163651	Pump Cent 03 Sewage Insp/Service PS03 WB (1y) 5004	5004-SP03	PM	CLOSE	3 - PM	Colin Kasperavicius		0000093252		PUMCEN10A	1/1/23	6/13/23	1/1/23
3163669	Pump Cent 04 Sewage Insp/Service PS03 WB (1y) 5004	5004-SP03	PM	CLOSE	3 - PM	Colin Kasperavicius		0000093253		PUMCEN10A	1/1/23	6/13/23	1/1/23
3163742	Pump Subm SP1 Sewage Wet Well Insp/Srv PS01 (1y) 5004	5004-SP01	PM	CLOSE	3 - PM	Colin Kasperavicius		0000082825		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163751	Pump Subm S02 Sewage Wet Well Insp/Srv PS01 (1y) 5004	5004-SP01	PM	CLOSE	3 - PM		GBAY-MC1	0000082826		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163760	Pump Subm 04 Sewage Insp/Service PS02 (1y) 5004	5004-SP02	PM	CLOSE	3 - PM		GBAY-MC1	0000082866		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163769	Pump Subm 02 Sewage Insp/Service PS02 WB (1y) 5004	5004-SP02	PM	CLOSE	3 - PM		GBAY-MC1	0000082870		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163778	Pump Subm 03 Sewage Insp/Service PS02 WB (1y) 5004	5004-SP02	PM	CLOSE	3 - PM		GBAY-MC1	0000082871		PUMSUB01-A	1/1/23	6/19/23	1/1/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3163787	Pump Subm 01 Sewage Insp/Service PS12 WB (1y) 5004	5004-SP12	PM	CLOSE	3 - PM		GBAY-MC1	0000082913		PUMSUB01-A	1/1/23	2/17/23	1/1/23
3163796	Pump Subm 02 Insp/Service PS12 WB (1y) 5004	5004-SP12	PM	CLOSE	3 - PM		GBAY-MC1	0000082914		PUMSUB01-A	1/1/23	2/17/23	1/1/23
3163805	Pump Subm 020 Sewage Insp/Service PS10 WB (1y) 5004	5004-SP10	PM	CLOSE	3 - PM		GBAY-MC1	0000082918		PUMSUB01-A	1/1/23	2/17/23	1/1/23
3163814	Pump Subm 01 Sewage Insp/Service PS08 WB (1y) 5004	5004-SP08	PM	CLOSE	3 - PM		GBAY-MC1	0000083008		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163823	Pump Subm 02 Spare Insp/Service PS08 WB (1y) 5004	5004-SP08	PM	CLOSE	3 - PM		GBAY-MC1	0000083009		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163832	Pump Subm 03 Sewage Insp/Service PS08 WB (1y) 5004	5004-SP08	PM	CLOSE	3 - PM		GBAY-MC1	0000083010		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163841	Pump Subm 03 Spare Insp/Service PS07 WB (1y) 5004	5004-SP07	PM	CLOSE	3 - PM		GBAY-MC1	0000083036		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163850	Pump Subm 01 Sewage Insp/Service PS11 WB (1y) 5004	5004-SP11	PM	CLOSE	3 - PM		GBAY-MC1	0000083068		PUMSUB01-A	1/1/23	10/31/23	1/1/23
3163859	Pump Subm P2 Sewage Wet Well Insp/Service WB (1y) 5004	5004-SP11	PM	CLOSE	3 - PM	Richard Eagle	GBAY-MC1	0000327189		PUMSUB01-A	1/1/23	10/31/23	1/1/23
3163868	Pump Subm 01 Sewage Insp/Srv PS04 Wasaga (1y) 5004	5004-SP04	PM	CLOSE	3 - PM	Richard Eagle		0000083096		PUMSUB01-A	1/1/23	10/31/23	1/1/23
3163877	Pump Subm 02 Sewage Insp/Srv PS04 Wasaga (1y) 5004	5004-SP04	PM	CLOSE	3 - PM	Richard Eagle		0000083097		PUMSUB01-A	1/1/23	10/31/23	1/1/23
3163886	Pump Subm 02 Insp/Service PS14 Wasaga (1y) 5004	5004-SP14	PM	CLOSE	3 - PM	Colin Kasperavicius		0000083862		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163895	Pump Subm 01 Insp/Service PS14 Wasaga (1y) 5004	5004-SP14	PM	CLOSE	3 - PM		GBAY-MC1	0000083863		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163909	Pump Subm 01 Insp/Service PS15 Wasaga (1y) 5004	5004-SP15	PM	CLOSE	3 - PM	Colin Kasperavicius		0000092927		PUMSUB01-A	1/1/23	10/31/23	1/1/23

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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3163918	Pump Subm 02 Insp/Service PS15 Wasaga (1y) 5004	5004-SP15	PM	CLOSE	3 - PM	Colin Kasperavicius		0000092928		PUMSUB01-A	1/1/23	10/31/23	1/1/23
3163927	Pump Subm 03 Insp/Service PS07 Wasaga (1y) 5004	5004-SP07	PM	CLOSE	3 - PM	Colin Kasperavicius		0000094948		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163936	Pump Subm 01 Insp/Service PS07 Wasaga (1y) 5004	5004-SP07	PM	CLOSE	3 - PM		GBAY-MC1	0000094949		PUMSUB01-A	1/1/23	1/31/23	1/1/23
3163945	Pump Subm 02 Insp/Service PS07 Wasaga (1y) 5004	5004-SP07	PM	CLOSE	3 - PM		GBAY-MC1	0000094950		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163954	Pump Subm 01 Insp/Service PS08 Wasaga (1y) 5004	5004-SP08	PM	CLOSE	3 - PM	Colin Kasperavicius		0000094951		PUMSUB01-A	1/1/23	10/6/23	1/1/23
3163963	Pump Subm 03 Insp/Service PS08 Wasaga (1y) 5004	5004-SP08	PM	CLOSE	3 - PM	Colin Kasperavicius		0000094952		PUMSUB01-A	1/1/23	6/20/23	1/1/23
3163972	Pump Subm 02 Insp/Service PS08 Wasaga (1y) 5004	5004-SP08	PM	CLOSE	3 - PM	Colin Kasperavicius		0000094953		PUMSUB01-A	1/1/23	10/6/23	1/1/23
3163981	Pump Subm 01 Insp/Service PS07 Wasaga (1y) 5004	5004-SP07	PM	CLOSE	3 - PM		GBAY-MC1	0000094954		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3163990	Pump Subm 01 Insp/Service PS10 Wasaga (1y) 5004	5004-SP10	PM	CLOSE	3 - PM		GBAY-MC1	0000094997		PUMSUB01-A	1/1/23	2/17/23	1/1/23
3163999	Pump Subm RSP #1 Insp/Service PS05 Wasaga (1y) 5004	5004-SP05	PM	CLOSE	3 - PM		GBAY-MC1	0000156639		PUMSUB01-A	1/1/23	4/26/23	1/1/23
3164008	Pump Subm RSP #1 Insp/Service PS06 Wasaga (1y) 5004	5004-SP06	PM	CLOSE	3 - PM		GBAY-MC1	0000156685		PUMSUB01-A	1/1/23	6/28/23	1/1/23
3164017	Pump Subm RSP #2 Insp/Service PS06 Wasaga (1y) 5004	5004-SP06	PM	CLOSE	3 - PM		GBAY-MC1	0000156686		PUMSUB01-A	1/1/23	2/17/23	1/1/23
3164026	Pump Subm RSP #3 Insp/Service PS06 Wasaga (1y) 5004	5004-SP06	PM	CLOSE	3 - PM		GBAY-MC1	0000156687		PUMSUB01-A	1/1/23	2/17/23	1/1/23
3164035	Pump Subm RSP #4 Insp/Service PS06 Wasaga (1y) 5004	5004-SP06	PM	CLOSE	3 - PM		GBAY-MC1	0000156688		PUMSUB01-A	1/1/23	2/17/23	1/1/23
3164044	Pump Subm RSP #1 Insp/Service PS13 Wasaga (1y) 5004	5004-SP13	PM	CLOSE	3 - PM		GBAY-MC1	0000156697		PUMSUB01-A	1/1/23	6/13/23	1/1/23
3164053	Pump Subm RSP #2 Insp/Service PS13 Wasaga (1y) 5004	5004-SP13	PM	CLOSE	3 - PM		GBAY-MC1	0000156699		PUMSUB01-A	1/1/23	6/13/23	1/1/23
3165164	Panel PLC Sewage Insp/Service PS08 Wasaga (3y) 5004	5004-SP08	PM	CLOSE	3 - PM		GBAY-UPI	0000065895		PANCON04-T	1/1/23	1/16/23	1/1/23
3165168	Panel PLC Sewage Insp/Service PS07 Wasaga (3y) 5004	5004-SP07	PM	CLOSE	3 - PM		GBAY-UPI	0000065910		PANCON04-T	1/1/23	1/16/23	1/1/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3165363	OCWA Annual Workplace Inspection PS Wasaga (1y) 5004	5004-SP01	OPER	CLOSE	3 - PM		GBAY-H&S		5004PSTN	HSCWI-A	12/1/23	10/20/23	12/1/23
3180522	Pump Subm P2 Sewage Wet Well Insp/Srv PS#2 (1y) 5004	5004-SP02	PM	CLOSE	3 - PM	Richard Eagle	GBAY-MC1	0000327198		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3180543	Pump Subm P1+P2 Insp/Srv Route PS#12 (1y) 5004	5004-SP12	PM	CLOSE	3 - PM	Richard Eagle	GBAY-MC1		5004PUSB	PUMSUB01-A	1/1/23	12/20/23	1/1/23
3180552	Pump Subm P1+P2 Sewage Insp/Service PS#10 (1y) 5004	5004-SP10	PM	CLOSE	3 - PM	Richard Eagle	GBAY-MC1		5004SP10	PUMSUB01-A	1/1/23	6/30/23	1/1/23
3183932	Pump Submersible 01 Sewage Insp/Srv PS WB (1y) 5004	5004-SP02	PM	CLOSE	3 - PM		GBAY-MC1	0000324027		PUMSUB01-A	1/1/23	6/19/23	1/1/23
3201194	Wasaga Beach WPCP Filter Inlet High Level	5004	CALL	CLOSE	5 - Urgent	Angela Pauze						1/3/23	1/3/23
3201203	SPS#19 Pump #2 Repair - CAPITAL	5004-SP19	CAP	CLOSE	1 - Low	Stephanie Oddie	5004-OPS	0000276826				1/26/23	1/3/23
3201284	PS 16 DC supply fail - 5004	5004-SP16	CALL	CLOSE	5 - Urgent	John Bristow						12/24/22	1/3/23
3201332	WPCP Gas Detectors Semi-Annual Calibration O&M - 5004S	5004-WWWB-P	PM	CLOSE	1 - Low	Richard Eagle	5004-OPS	0000310004				6/26/23	1/3/23
3201835	Wiski7 Data Review Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM	Kristen Tilotta	GBAY-PCT			FACREV04-M	1/20/23	1/10/23	1/5/23
3202766	PS 6 General, Pump tripped, ragged up, 5004C	5004-SP06	CALL	CLOSE	5 - Urgent	Colin Kasperavicius		0000156688				1/6/23	1/9/23
3203217	5004 - Exterior Lighting at WWTP & PS 7 & 8 - replacement/repairs	5004	CORR	CLOSE	1 - Low	Andrew Neuman	GBAY-MC1					1/11/23	1/11/23
3204071	WPCP Lab Equipment - Capital	5004	CAP	CLOSE	1 - Low	Richard Eagle						5/10/23	1/16/23
3204566	Confined Space Monitoring Equipment - CAPITAL	5004	CAP	CLOSE	1 - Low	Richard Eagle						5/10/23	1/18/23
3204829	PS07 High Temp alarm	5004-SP07	CALL	CLOSE	5 - Urgent	Scott Campbell						1/19/23	1/19/23
3204831	PS 17 General Alarm	5004-SP17	CALL	CLOSE	5 - Urgent	Scott Campbell						1/19/23	1/19/23
3205238	Pumps and VFD replacement PS5 - 5004-SP05	5004-SP05	CAP	APPR	4 - High	John Bristow	GBAY-MC1						1/20/23
3205239	RAS 2 VFD replacement - 5004	5004	CAP	CLOSE	4 - High	John Bristow	GBAY-MC1					1/30/23	1/20/23
3205300	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM	Kristen Tilotta	GBAY-PCT			CLIENTR-02	2/6/23	2/1/23	1/22/23
3206077	Wiski7 Data Review Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM	Kristen Tilotta	GBAY-PCT			FACREV04-M	2/10/23	2/3/23	1/26/23
3206845	SPS#3 Pump Repair - CAPITAL	5004-SP03	CAP	CLOSE	1 - Low	John Bristow	5004-OPS	0000093252				6/13/23	1/30/23
3215542	Facility Health & Safety Insp Collections PS#01 (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	2/1/23	3/2/23	2/1/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3216006	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	2/1/23	3/3/23	2/1/23
3216687	Panel Annunciator Testing PS09 Wasaga B (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-OPS	0000082754		PANALA02-M	2/1/23	3/3/23	2/1/23
3216692	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	2/1/23	2/3/23	2/1/23
3216711	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	2/1/23	3/3/23	2/1/23
3216716	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	2/1/23	2/1/23	2/1/23
3216735	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	2/1/23	3/3/23	2/1/23
3216740	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	2/1/23	2/1/23	2/1/23
3216759	Panel Annunciator Testing PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082927		PANALA02-M	2/1/23	3/3/23	2/1/23
3216764	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	2/1/23	2/3/23	2/1/23
3216783	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	2/1/23	2/1/23	2/1/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3216802	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	2/1/23	2/6/23	2/1/23
3216821	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	2/1/23	2/1/23	2/1/23
3216849	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	2/1/23	2/1/23	2/1/23
3216873	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	2/1/23	2/3/23	2/1/23
3216885	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	2/1/23	2/6/23	2/1/23
3216904	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	2/1/23	2/6/23	2/1/23
3216923	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	2/1/23	2/1/23	2/1/23
3216942	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	2/1/23	2/3/23	2/1/23
3216973	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	2/1/23	2/3/23	2/1/23
3216992	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	2/1/23	2/1/23	2/1/23
3217070	Flow Meter PS/RAS/WAS {Qty-20} Route Calib (2y) 5105	5105-AONS	PM	CLOSE	3 - PM		5105NSOP		5105FBWW	METFLW06	2/1/23	12/8/23	2/1/23
3217123	MCC Inspection/Service PS14 Wasaga Beach (3y) 5004	5004-SP14	PM	CLOSE	3 - PM		GBAY-UPI	0000083859		MCC01-T	2/1/23	2/27/23	2/1/23
3217126	Panel PLC Pump Control Insp/Service PS05 WB (1y) 5004	5004-SP05	PM	CLOSE	3 - PM		GBAY-UPI	0000156635		PANPLC01-A	2/1/23	2/16/23	2/1/23
3245561	SPS 9 High Wetwell	5004-SP09	CALL	CLOSE	5 - Urgent	Angela Pauze						2/13/23	2/13/23
3245973	Wiski7 Data Review Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM	Kristen Tilotta	GBAY-PCT			FACREV04-M	3/3/23	3/6/23	2/16/23
3246052	PS 17 GENERAL ALARM	5004-SP17	CALL	CLOSE	5 - Urgent	Angela Pauze						2/16/23	2/16/23
3246066	RAS2 ALARM	5004	CALL	CLOSE	5 - Urgent	Angela Pauze						2/16/23	2/16/23
3246247	High level, HMI settings too high, PS19, 5004C	5004-SP19	CALL	CLOSE	5 - Urgent	Colin Kasperavicius						2/16/23	2/17/23
3246263	Annual Performance Report (due March 30) - Wasaga Beach WPCP	5004	PM	CLOSE	3 - PM		GBAY-PCT				3/31/23	4/11/23	2/17/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3246473	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM	Kristen Tilotta	GBAY-PCT			CLIENTR-02	3/6/23	3/3/23	2/19/23
3247630	RAS 2 Torque Alarm	5004-SP02	CALL	CLOSE	5 - Urgent	Scott Campbell						2/27/23	2/27/23
3257045	Facility Health & Safety Insp Collections PS#01 (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	3/1/23	3/2/23	3/1/23
3257509	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	3/1/23	4/3/23	3/1/23
3258236	Panel Annunciator Testing PS09 Wasaga B (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-OPS	0000082754		PANALA02-M	3/1/23	3/21/23	3/1/23
3258241	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	3/1/23	3/21/23	3/1/23
3258260	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	3/1/23	3/21/23	3/1/23
3258265	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	3/1/23	3/2/23	3/1/23
3258284	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	3/1/23	3/21/23	3/1/23
3258289	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	3/1/23	3/2/23	3/1/23
3258308	Panel Annunciator Testing PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082927		PANALA02-M	3/1/23	3/21/23	3/1/23
3258313	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	3/1/23	3/3/23	3/1/23
3258332	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	3/1/23	3/2/23	3/1/23
3258351	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	3/1/23	3/3/23	3/1/23
3258370	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	3/1/23	3/2/23	3/1/23
3258398	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	3/1/23	3/2/23	3/1/23
3258422	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	3/1/23	3/13/23	3/1/23
3258434	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	3/1/23	3/3/23	3/1/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3258453	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	3/1/23	3/3/23	3/1/23
3258472	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	3/1/23	3/2/23	3/1/23
3258491	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	3/1/23	3/13/23	3/1/23
3258522	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	3/1/23	3/6/23	3/1/23
3258541	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	3/1/23	3/2/23	3/1/23
3287613	Contractor locked in	5004	CALL	CLOSE	5 - Urgent	Scott Campbell						3/2/23	3/2/23
3288212	WWTF - Turbo blower fail	5004	CALL	CLOSE	5 - Urgent	Angela Pauze						3/6/23	3/6/23
3288218	WWTF Disk Filter Influent box high	5004	CALL	CLOSE	5 - Urgent	Angela Pauze						3/6/23	3/6/23
3289011	PS09 generator, one battery exploded, MICROPROCESSOR ENGINE CONTROLLER - MEC-10 down	5004-SP09	EMER	CLOSE	5 - Urgent	Angela Pauze	5004-C	0000082787				3/9/23	3/9/23
3289414	PS15 RSP cycle too short, floats clean, miltronics level not changing	5004-SP15	CORR	CLOSE	5 - Urgent	John Bristow	5004-C	0000092926				4/13/23	3/13/23
3290273	PS 09 Pump#3 VFD failure	5004-SP09	CALL	CLOSE	5 - Urgent	Scott Campbell						3/20/23	3/20/23
3290582	Wiski7 Data Review Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM	Kristen Tilotta	GBAY-PCT			FACREV04-M	4/6/23	4/17/23	3/22/23
3290584	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM	Kristen Tilotta	GBAY-PCT			CLIENTR-02	4/6/23	4/11/23	3/22/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3290635	SPS#9 Generator Repairs - CAPITAL	5004-SP09	CAP	CLOSE	4 - High	Colin Kasperavicius	5004-OPS	0000082783				5/10/23	3/22/23
3291608	WPCP Biosolids Catch Basin Drain Line Valve Replacement - CAPITAL	5004	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						3/28/23
3291609	WPCP Clarifiers 2&3 Main Drain Lines Valve Replacements - CAPITAL	5004	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						3/28/23
3302186	Facility Health & Safety Insp Collections PS#01 (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	4/1/23	5/11/23	4/1/23
3302650	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	4/1/23	5/3/23	4/1/23
3303334	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	4/1/23	4/19/23	4/1/23
3303353	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	4/1/23	5/3/23	4/1/23
3303358	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	4/1/23	4/13/23	4/1/23
3303377	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	4/1/23	5/11/23	4/1/23
3303382	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	4/1/23	4/13/23	4/1/23
3303401	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	4/1/23	4/19/23	4/1/23
3303420	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	4/1/23	4/5/23	4/1/23
3303439	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	4/1/23	4/12/23	4/1/23
3303458	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	4/1/23	4/5/23	4/1/23
3303486	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	4/1/23	4/13/23	4/1/23
3303510	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	4/1/23	4/19/23	4/1/23
3303522	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	4/1/23	4/18/23	4/1/23
3303541	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	4/1/23	4/18/23	4/1/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3303560	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	4/1/23	4/12/23	4/1/23
3303579	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	4/1/23	4/19/23	4/1/23
3303610	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	4/1/23	4/19/23	4/1/23
3303629	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	4/1/23	4/5/23	4/1/23
3303779	Valve Backflow Insp/Service Route PS## WB (1y) 5004	5004-WWWB-F-BG	PM	CLOSE	3 - PM		5004-OPS	0000082069	5004VBFL	VALBAC02	4/1/23	4/13/23	4/1/23
3303962	Battery Bank UPS Inspection PS05 Wasaga B (1y) 5004	5004-SP05	PM	CLOSE	3 - PM		GBAY-UPI	0000156644		UPS03	4/1/23	4/26/23	4/1/23
3303968	Battery Bank UPS Inspection PS08 Wasaga Beach (1y) 5004	5004-SP08	PM	CLOSE	3 - PM		GBAY-UPI	0000156655		UPS03	4/1/23	5/1/23	4/1/23
3303974	Battery Bank UPS Inspection PS06 Wasaga Beach (1y) 5004	5004-SP06	PM	CLOSE	3 - PM		GBAY-UPI	0000156675		UPS03	4/1/23	5/1/23	4/1/23
3303980	Battery Bank UPS Inspection PS13 Wasaga Beach (1y) 5004	5004-SP13	PM	CLOSE	3 - PM		GBAY-UPI	0000156702		UPS03	4/1/23	5/1/23	4/1/23
3304718	Panel PLC Sewage Insp/Service PS02 Wasaga (3y) 5004	5004-SP02	PM	CLOSE	3 - PM		GBAY-UPI	0000082861		PANCON04-T	4/1/23	5/10/23	4/1/23
3304722	Panel PLC Sewage Insp/Service PS14 Wasaga (3y) 5004	5004-SP14	PM	CLOSE	3 - PM		GBAY-UPI	0000083864		PANCON04-T	4/1/23	6/5/23	4/1/23
3321619	Fans & Louvre Insp/Srv Route Sewage PS01 WB (1y) 5004	5004-SP01	PM	CLOSE	3 - PM		GBAY-MC1		5004FS01	FANEXH06	4/1/23	5/3/23	4/1/23
3321642	Fans & Louvre Insp/Srv Route Sewage PS02 WB (1y) 5004	5004-SP02	PM	CLOSE	3 - PM		GBAY-MC1		5004FS02	FANEXH06	4/1/23	5/10/23	4/1/23
3321652	Fans & Louvre Insp/Srv Route Sewage PS03 WB (1y) 5004	5004-SP03	PM	CLOSE	3 - PM		GBAY-MC1		5004FS03	FANEXH06	4/1/23	5/3/23	4/1/23
3321662	Fans & Louvre Insp/Srv Route Sewage PS04 WB (1y) 5004	5004-SP04	PM	CLOSE	3 - PM		GBAY-MC1		5004FS04	FANEXH06	4/1/23	6/5/23	4/1/23
3321672	Fans & Louvre Insp/Srv Route Sewage PS07 WB (1y) 5004	5004-SP07	PM	CLOSE	3 - PM		GBAY-MC1		5004FS07	FANEXH06	4/1/23	6/5/23	4/1/23
3321682	Fans & Louvre Insp/Srv Route Sewage PS08 WB (1y) 5004	5004-SP08	PM	CLOSE	3 - PM		GBAY-MC1		5004FS08	FANEXH06	4/1/23	6/5/23	4/1/23
3321692	Fans & Louvre Insp/Srv Route Sewage PS09 WB (1y) 5004	5004-SP09	PM	CLOSE	3 - PM		GBAY-MC1		5004FS09	FANEXH06	4/1/23	5/26/23	4/1/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3321702	Fans & Louvre Insp/Srv Route Sewage PS10 WB (1y) 5004	5004-SP10	PM	CLOSE	3 - PM		GBAY-MC1		5004FS10	FANEXH06	4/1/23	5/29/23	4/1/23
3321712	Fans & Louvre Insp/Srv Route Sewage PS11 WB (1y) 5004	5004-SP11	PM	CLOSE	3 - PM		GBAY-MC1		5004FS11	FANEXH06	4/1/23	6/5/23	4/1/23
3321722	Fans & Louvre Insp/Srv Route Sewage PS12 WB (1y) 5004	5004-SP12	PM	CLOSE	3 - PM		GBAY-MC1		5004FS12	FANEXH06	4/1/23	5/29/23	4/1/23
3321732	Fans & Louvre Insp/Srv Route Sewage PS14 WB (1y) 5004	5004-SP14	PM	CLOSE	3 - PM		GBAY-MC1		5004FS14	FANEXH06	4/1/23	6/5/23	4/1/23
3321742	Fans & Louvre Insp/Srv Route Sewage PS15 WB (1y) 5004	5004-SP15	PM	CLOSE	3 - PM		GBAY-MC1		5004FS15	FANEXH06	4/1/23	6/5/23	4/1/23
3321752	Fans & Louvre Insp/Srv Route Sewage PS18 WB (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-MC1		5004FS18	FANEXH06	4/1/23	6/5/23	4/1/23
3321762	Fans & Louvre Insp/Srv Route Sewage PS19 WB (1y) 5004	5004-SP19	PM	CLOSE	3 - PM		GBAY-MC1		5004FS19	FANEXH06	4/1/23	6/5/23	4/1/23
3337984	UV Low dose alarm - 5004	5004	CALL	CLOSE	5 - Urgent	John Bristow						4/1/23	4/3/23
3339326	Alarm WWTF	5004	CALL	CLOSE	5 - Urgent	Scott Campbell						4/11/23	4/11/23
3340610	OCWA Co-Op CLI-ECA	5004	CAP	CLOSE	1 - Low	Richard Eagle						12/12/23	4/18/23
3340888	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM	Kristen Tilotta	GBAY-PCT			CLIENTR-02	5/6/23	5/8/23	4/21/23
3341274	Inlet filter high channel	5004	CALL	CLOSE	5 - Urgent	Dustin Trace						4/24/23	4/24/23
3341362	SPS#3 & #9 Discharge Piping Repairs - CAPITAL	5004-SP09	CAP	CLOSE	1 - Low	Richard Eagle	5004-OPS					6/13/23	4/24/23
3341880	SPS#3 & 4 Roof Repairs - CAPITAL	5004-SP03	CAP	CLOSE	1 - Low	Richard Eagle						12/12/23	4/27/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3341965	SPS#3 & #9 Wet Well Hatch Repairs - CAPITAL	5004-SP09	CAP	APPR	1 - Low	Richard Eagle							4/28/23
3352126	Facility Health & Safety Insp Collections PS#01 (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	5/1/23	6/2/23	5/1/23
3352555	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	5/1/23	6/2/23	5/1/23
3353322	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	5/1/23	5/16/23	5/1/23
3353341	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	5/1/23	6/20/23	5/1/23
3353346	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	5/1/23	5/31/23	5/1/23
3353365	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	5/1/23	5/31/23	5/1/23
3353370	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	5/1/23	5/31/23	5/1/23
3353389	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	5/1/23	5/31/23	5/1/23
3353408	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	5/1/23	5/31/23	5/1/23
3353427	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	5/1/23	5/31/23	5/1/23
3353446	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	5/1/23	5/31/23	5/1/23
3353474	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	5/1/23	5/31/23	5/1/23
3353498	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	5/1/23	5/31/23	5/1/23
3353510	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	5/1/23	5/3/23	5/1/23
3353529	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	5/1/23	5/3/23	5/1/23
3353548	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	5/1/23	5/3/23	5/1/23
3353567	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	5/1/23	5/16/23	5/1/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3353598	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	5/1/23	5/4/23	5/1/23
3353617	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	5/1/23	5/4/23	5/1/23
3353750	Meter Level 02 Wet Well Insp/Service PS18 WB (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-UPI	0000291525		METLEV06-A	5/1/23	6/21/23	5/1/23
3353753	MCC Inspection/Service PS02 Wasaga Beach (3y) 5004	5004-SP02	PM	CLOSE	3 - PM		GBAY-UPI	0000082880		MCC01-T	5/1/23	6/5/23	5/1/23
3353756	MCC Inspection/Service PS09 Wasaga Beach (3y) 5004	5004-SP09	PM	CLOSE	3 - PM		GBAY-UPI	0000082774		MCC01-T	5/1/23	5/29/23	5/1/23
3353759	Panel Transfer MCC Insp/Service PS09 WB (3y) 5004	5004-SP09	PM	CLOSE	3 - PM		GBAY-UPI	0000082773		PANTRA01-T	5/1/23	5/29/23	5/1/23
3353770	Panel Transfer MCC Insp/Service PS01 WB (3y) 5004	5004-SP01	PM	CLOSE	3 - PM		GBAY-UPI	0000082830		PANTRA01-T	5/1/23	6/5/23	5/1/23
3354027	Panel PLC Sewage Insp/Service PS09 Wasaga (3y) 5004	5004-SP09	PM	CLOSE	3 - PM		GBAY-UPI	0000082753		PANCON04-T	5/1/23	11/29/23	5/1/23
3383184	Wiski7 Data Review Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM	Angela Pauze	GBAY-PCT			FACREV04-M	5/17/23	8/16/23	5/2/23
3385532	SPS#3 Genset 5-year Service and Repairs - CAPITAL	5004-SP03	CAP	CLOSE	1 - Low	Colin Kasperavicius	5004-OPS	0000082985				12/19/23	5/16/23
3385533	SPS#15 Genset 5-year Service and Repairs - CAPITAL	5004-SP15	CAP	CLOSE	1 - Low	Colin Kasperavicius	5004-OPS	0000092930				12/19/23	5/16/23
3385713	Meter Level Insp/Service PS#10 Wasaga (1y) 5004	5004-SP10	PM	CLOSE	3 - PM		GBAY-UPI	0000327195		METLEV02-A	5/18/23	12/19/23	5/18/23
3385903	SPS#3 Interior Lighting LED Retrofit - CAPITAL	5004-SP03	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						5/18/23
3385905	WPCP Exterior Lighting LED Retrofit - CAPITAL	5004	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						5/18/23
3385907	SPS#9 Interior Lighting LED Retrofit - CAPITAL	5004-SP09	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						5/18/23
3386299	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM	Lauren Orlovski	GBAY-PCT			CLIENTR-02	6/6/23	6/21/23	5/22/23
3386449	High Level Pump Station 10	5004-SP10	CALL	CLOSE	5 - Urgent	Dustin Trace						5/23/23	5/23/23
3386946	SPS#7 Pump Leak/Overload Sensor Repairs - CAPITAL	5004-SP07	CAP	CLOSE	1 - Low	John Bristow	5004-OPS					8/18/23	5/26/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3386948	SPS# 7 & 8 and WPCP Plumbing Repairs - CAPITAL	5004-SP07	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						5/26/23
3397079	Facility Health & Safety Insp Collections PS#01 (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	6/1/23	6/29/23	6/1/23
3397508	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	6/1/23	7/5/23	6/1/23
3398290	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	6/1/23	6/27/23	6/1/23
3398309	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	6/1/23	6/29/23	6/1/23
3398326	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	6/1/23	6/13/23	6/1/23
3398345	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	6/1/23	7/5/23	6/1/23
3398350	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	6/1/23	6/13/23	6/1/23
3398369	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	6/1/23	6/13/23	6/1/23
3398388	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	6/1/23	6/7/23	6/1/23
3398407	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	6/1/23	6/7/23	6/1/23
3398426	Engine Diesel Genset Insp/Service Wasaga B (1y) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-OPS	0000083883		ENGDIE02-A	6/1/23	10/11/23	6/1/23
3398465	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	6/1/23	6/7/23	6/1/23
3398516	Panel Control Pumps Insp/Service PS15 Wasaga B (1y) 5004	5004-SP15	PM	CLOSE	3 - PM	Colin Kasperavicius	GBAY-MC1	0000092926		PANCON06-A	6/1/23	12/12/23	6/1/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3398519	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	6/1/23	6/13/23	6/1/23
3398737	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	6/1/23	6/19/23	6/1/23
3398749	Engine Natural Gas Genset Insp/Srv PS05 WB (1y) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-OPS	0000156631		ENGDIE01-A	6/1/23	12/7/23	6/1/23
3398761	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	6/1/23	6/13/23	6/1/23
3398780	Engine Diesel Genset Insp/Srv PS08 Wasaga B (1y) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-OPS	0000156657		ENGDIE02-A	6/1/23	10/11/23	6/1/23
3398819	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	6/1/23	6/13/23	6/1/23
3398838	Engine Diesel Genset Insp/Service PS07 Wasaga (1y) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-OPS	0000156669		ENGDIE02-A	6/1/23	10/11/23	6/1/23
3398877	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	6/1/23	6/7/23	6/1/23
3398896	Engine Diesel Genset Insp/Service PS06 Wasaga (1y) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-OPS	0000156681		ENGDIE02-A	6/1/23	10/11/23	6/1/23
3398935	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	6/1/23	6/19/23	6/1/23
3398947	Engine Natural Gas Genset Insp/Service PS13 WB (1y) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-OPS	0000156694		ENGDIE01-A	6/1/23	10/6/23	6/1/23
3398978	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	6/1/23	6/19/23	6/1/23
3398997	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	6/1/23	6/14/23	6/1/23
3430607	Turbo Blower comms fail - 5004	5004	CALL	CLOSE	5 - Urgent	John Bristow						5/30/23	6/2/23
3431694	Ps 6 High Level	5004-SP06	CALL	CLOSE	5 - Urgent	Dustin Trace						6/7/23	6/7/23
3432121	Facility Health & Safety Insp Collections PS#01 (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	6/9/23	7/5/23	6/9/23
3432619	OCWA Annual Workplace Inspection PS Wasaga (1y) 5004	5004-SP01	OPER	CLOSE	3 - PM		GBAY-H&S		5004PSTN	HSCWI-A	12/31/23	10/27/23	12/31/23
3433204	PS03 General alarm	5004-SP03	CALL	CLOSE	5 - Urgent	Scott Campbell						6/12/23	6/12/23
3433984	2023 Annual Pump Station Pump Inspections - 5004C	5004-SP09	PM	CLOSE	1 - Low	Richard Eagle	5004-OPS					12/7/23	6/16/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3434336	High Level Pump Station 10	5004-SP10	CALL	CLOSE	5 - Urgent	Dustin Trace						6/19/23	6/19/23
3434675	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM		GBAY-PCT			CLIENTR-02	7/6/23	6/21/23	6/21/23
3434938	WPCP Additional Lights for Exterior Lighting LED Retrofit - CAPITAL	5004	CAP	CLOSE	1 - Low	Richard Eagle						12/12/23	6/22/23
3435849	WPCP Biosolids Sludge Transfer Pit Ultrasonic Level Repairs - CAPITAL	5004	CAP	APPR	2 - Medium	Stephanie Oddie	5004-OPS						6/28/23
3445831	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	7/1/23	7/21/23	7/1/23
3446476	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	7/1/23	7/20/23	7/1/23
3446495	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	7/1/23	7/28/23	7/1/23
3446500	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	7/1/23	7/11/23	7/1/23
3446519	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	7/1/23	8/9/23	7/1/23
3446524	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	7/1/23	8/17/23	7/1/23
3446543	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	7/1/23	7/25/23	7/1/23
3446562	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	7/1/23	7/24/23	7/1/23
3446581	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	7/1/23	7/25/23	7/1/23
3446600	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	7/1/23	7/24/23	7/1/23
3446628	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	7/1/23	7/11/23	7/1/23
3446656	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	7/1/23	7/20/23	7/1/23
3446668	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	7/1/23	7/20/23	7/1/23
3446687	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	7/1/23	7/25/23	7/1/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3446706	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	7/1/23	7/18/23	7/1/23
3446725	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	7/1/23	7/28/23	7/1/23
3446795	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	7/1/23	7/28/23	7/1/23
3446814	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	7/1/23	7/24/23	7/1/23
3446974	Panel Control Pumps Insp/Service PS07 WB (1y) 5004	5004-SP07	PM	CLOSE	3 - PM		GBAY-UPI	0000156667		PANCON06-A	7/1/23	11/30/23	7/1/23
3479947	SPS#3 Pump Replacement - CAPITAL	5004-SP03	CAP	CAN	1 - Low	Colin Kasperavicius	5004-OPS						7/6/23
3480009	Replace Portable half ton hoist - 5004	5004	CAP	CLOSE	1 - Low	John Bristow						11/24/23	7/6/23
3480340	Facility Health & Safety Insp Collections PS#01 (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	7/9/23	8/17/23	7/9/23
3481471	ps3 General Alarm	5004-SP03	CALL	CLOSE	5 - Urgent	Dustin Trace						7/12/23	7/12/23
3481730	ps15 drywall/smoke/control room	5004-SP15	CALL	CLOSE	5 - Urgent	Dustin Trace						7/13/23	7/13/23
3482083	PS 6 - General Alarm	5004-SP06	CALL	CLOSE	5 - Urgent	Angela Pauze						7/16/23	7/16/23
3482084	PS 6 general alarm	5004-SP06	CALL	CLOSE	5 - Urgent	Angela Pauze						7/16/23	7/16/23
3482571	UPS needed at SPS6 and SPS10	5004-SP06	CORR	CLOSE	4 - High	Angela Pauze						10/26/23	7/19/23

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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3482934	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM		GBAY-PCT			CLIENTR-02	8/6/23	8/15/23	7/22/23
3483080	PS1 high level, faulty miltronics signal, low level, 5004C	5004-SP01	CALL	CLOSE	5 - Urgent	Colin Kasperavicius						7/21/23	7/23/23
3483845	5004 - PS1 High/Low Level	5004-SP01	CALL	CLOSE	2 - Medium	Stephanie Oddie						7/27/23	7/27/23
3483972	High level, faulty miltronics read out, PS2, 5004C	5004-SP02	CALL	CLOSE	5 - Urgent	Colin Kasperavicius						7/26/23	7/28/23
3483975	High level, faulty miltronics read out, PS1, 5004C	5004-SP01	CALL	CLOSE	5 - Urgent	Colin Kasperavicius						7/26/23	7/28/23
3493071	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	8/1/23	9/1/23	8/1/23
3493704	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	8/1/23	8/15/23	8/1/23
3493723	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	8/1/23	9/7/23	8/1/23
3493728	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	8/1/23	8/9/23	8/1/23
3493747	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	8/1/23	9/7/23	8/1/23
3493752	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	8/1/23	8/9/23	8/1/23
3493771	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	8/1/23	8/17/23	8/1/23
3493790	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	8/1/23	8/9/23	8/1/23
3493809	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	8/1/23	8/15/23	8/1/23
3493828	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	8/1/23	8/9/23	8/1/23
3493856	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	8/1/23	8/9/23	8/1/23
3493880	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	8/1/23	8/17/23	8/1/23
3493892	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	8/1/23	8/14/23	8/1/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3493911	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	8/1/23	8/14/23	8/1/23
3493930	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	8/1/23	8/9/23	8/1/23
3493949	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	8/1/23	8/10/23	8/1/23
3493980	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	8/1/23	8/10/23	8/1/23
3493999	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	8/1/23	8/9/23	8/1/23
3494059	Lifting Equipment Davit/Hoist Insp/Srv Wasaga (1y) 5105	5004-WWWB	PM	CLOSE	3 - PM		5105NSOP		5004LIFT	LIFDEV01-A	8/1/23	10/6/23	8/1/23
3494194	Battery Bank UPS Inspection PS19 Wasaga Beach (1y) 5004	5004-SP19	PM	CLOSE	3 - PM		GBAY-UPI	0000276829		UPS03	8/1/23	12/4/23	8/1/23
3494211	Meter Level Wet Well Insp/Service PS19 WB (1y) 5004	5004-SP19	PM	CLOSE	3 - PM		GBAY-UPI	0000276815		METLEV06-A	8/1/23	12/19/23	8/1/23
3494214	Meter Level 01 Wet Well Insp/Service PS18 WB (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-UPI	0000291524		METLEV06-A	8/1/23	12/19/23	8/1/23
3494217	MCC Inspection/Service PS19 Wasaga Beach (1y) 5004	5004-SP19	PM	CLOSE	3 - PM		GBAY-UPI	0000276828		MCC01-T	8/1/23	10/27/23	8/1/23
3494220	MCC Inspection/Service PS18 Wasaga Beach (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-UPI	0000276775		MCC01-T	8/1/23	10/27/23	8/1/23
3494223	Panel Control CP1 Insp/Service PS18 Wasaga (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-UPI	0000276820		PANCON06-A	8/1/23	10/27/23	8/1/23
3494226	Panel Lighting A Insp/Service PS19 Wasaga (1y) 5004	5004-SP19	PM	CLOSE	3 - PM		GBAY-UPI	0000276824		PANCON06-A	8/1/23	10/27/23	8/1/23
3494232	Panel Lighting A Insp/Service PS18 Wasaga (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-UPI	0000291522		PANCON06-A	8/1/23	10/27/23	8/1/23
3494264	Pump Submersible Insp/Service PS05 Wasaga (1y) 5004	5004-SP05	PM	CLOSE	3 - PM		GBAY-MC1	0000095977		PUMSUB01-A	8/1/23	10/16/23	8/1/23
3494273	Pump Submersible Insp/Service PS10 Wasaga (1y) 5004	5004-SP10	PM	CLOSE	3 - PM		GBAY-MC1	0000276769		PUMSUB01-A	8/1/23	12/20/23	8/1/23
3494282	Pump Submersible Insp/Service PS18 Wasaga (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-MC1	0000276771		PUMSUB01-A	8/1/23	10/31/23	8/1/23
3494291	Pump Submersible Insp/Service PS18 Wasaga (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-MC1	0000276772		PUMSUB01-A	8/1/23	10/31/23	8/1/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3494300	Pump Submersible Insp/Service PS18 Wasaga (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-MC1	0000276773		PUMSUB01-A	8/1/23	10/31/23	8/1/23
3494309	Pump Submersible Insp/Service PS18 Wasaga (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-MC1	0000276774		PUMSUB01-A	8/1/23	10/31/23	8/1/23
3494318	Pump Submersible Insp/Service PS18 Wasaga (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-MC1	0000276779		PUMSUB01-A	8/1/23	10/31/23	8/1/23
3494327	Pump Subm Sewage Insp/Service PS19 Wasaga (1y) 5004	5004-SP19	PM	CLOSE	3 - PM		GBAY-MC1	0000276825		PUMSUB01-A	8/1/23	10/16/23	8/1/23
3494336	Pump Subm Sewage Insp/Service PS19 Wasaga (1y) 5004	5004-SP19	PM	CLOSE	3 - PM		GBAY-MC1	0000276826		PUMSUB01-A	8/1/23	10/16/23	8/1/23
3494754	Engine Diesel Genset Insp/Srv PS18 Wasaga (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		GBAY-MC1	0000276770		ENGDIE02-A	8/1/23	10/11/23	8/1/23
3494793	Engine Diesel Genset Insp/Srv PS19 Baywood (1y) 5004	5004-SP19	PM	CLOSE	3 - PM		GBAY-MC1	0000276838		ENGDIE02-A	8/1/23	10/11/23	8/1/23
3522326	Float Replacement PS 5 - 5004-SP05	5004-SP05	CAP	CLOSE	4 - High	John Bristow						8/18/23	8/1/23
3522969	5004 - High Level Alarm - SP2 - Call Back	5004-SP02	CALL	CLOSE	5 - Urgent	Stephanie Oddie						8/3/23	8/3/23
3522970	5004 - SP5 - Checks and troubleshooting	5004-SP05	CALL	CLOSE	5 - Urgent	Stephanie Oddie						8/3/23	8/3/23
3523802	Facility Health & Safety Insp Collections PS#01 (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	8/9/23	9/7/23	8/9/23
3524681	PS09 - Car crashed into building	5004-SP09	CALL	CLOSE	5 - Urgent	Angela Pauze						8/10/23	8/10/23
3525213	High Level alarm, low level float active, PS2, 5004-C	5004-SP02	CALL	CLOSE	5 - Urgent	Colin Kasperavicius		0000082862				8/14/23	8/14/23
3526038	ps 2 low level	5004-SP02	CALL	CLOSE	5 - Urgent	Dustin Trace						8/21/23	8/21/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3526048	ps 16 general alarm	5004-SP16	CALL	CLOSE	5 - Urgent	Dustin Trace						8/21/23	8/21/23
3526055	ps 2 low level	5004-SP02	CALL	CLOSE	5 - Urgent	Dustin Trace						8/21/23	8/21/23
3526063	ps 16 general alarm	5004-SP16	CALL	CLOSE	5 - Urgent	Dustin Trace						8/21/23	8/21/23
3526215	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM		GBAY-PCT			CLIENTR-02	9/6/23	9/18/23	8/22/23
3537538	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	9/1/23	10/3/23	9/1/23
3538196	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	9/1/23	9/15/23	9/1/23
3538215	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	9/1/23	9/25/23	9/1/23
3538220	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	9/1/23	9/7/23	9/1/23
3538239	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	9/1/23	9/25/23	9/1/23
3538244	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	9/1/23	9/7/23	9/1/23
3538263	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	9/1/23	9/15/23	9/1/23
3538282	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	9/1/23	9/5/23	9/1/23
3538301	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	9/1/23	9/15/23	9/1/23
3538320	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	9/1/23	9/5/23	9/1/23
3538348	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	9/1/23	9/7/23	9/1/23
3538382	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	9/1/23	9/14/23	9/1/23
3538394	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	9/1/23	9/13/23	9/1/23
3538413	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	9/1/23	9/13/23	9/1/23
3538432	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	9/1/23	9/13/23	9/1/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3538451	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	9/1/23	9/14/23	9/1/23
3538482	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	9/1/23	9/15/23	9/1/23
3538501	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	9/1/23	9/5/23	9/1/23
3538673	MCC Inspection/Service PS04 Wasaga Beach (3y) 5004	5004-SP04	PM	CLOSE	3 - PM		GBAY-UPI	0000083076		MCC01-T	9/1/23	11/3/23	9/1/23
3538685	Panel Transfer Insp/Service PS08 WB (3y) 5004	5004-SP08	PM	CLOSE	3 - PM		GBAY-UPI	0000083011		PANTRA01-T	9/1/23	11/3/23	9/1/23
3538696	Panel Transfer MCC Insp/Service PS04 Wasaga (3y) 5004	5004-SP04	PM	CLOSE	3 - PM		GBAY-UPI	0000083075		PANTRA01-T	9/1/23	11/3/23	9/1/23
3554921	Heater Electric Inspection Route PS01 Wasaga (1y) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS		5004HS01	HEATERINSP	9/1/23	9/25/23	9/1/23
3554935	Heater Inspection Route Sewage PS02 Wasaga (1y) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-OPS		5004HS02	HEATERINSP	9/1/23	9/25/23	9/1/23
3554940	Heater Inspection Route Sewage PS03 Wasaga (1y) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS		5004HS03	HEATERINSP	9/1/23	10/27/23	9/1/23
3554945	Heater Inspection Route Sewage PS04 Wasaga (1y) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-OPS		5004HS04	HEATERINSP	9/1/23	10/20/23	9/1/23
3554950	Heater Inspection Route Sewage PS07 Wasaga (1y) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-OPS		5004HS07	HEATERINSP	9/1/23	9/26/23	9/1/23
3554955	Heater Inspection Route Sewage PS08 Wasaga (1y) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-OPS		5004HS08	HEATERINSP	9/1/23	11/10/23	9/1/23
3554960	Heater Inspection Route Sewage PS09 Wasaga (1y) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-OPS		5004HS09	HEATERINSP	9/1/23	11/10/23	9/1/23
3554965	Heater Inspection Route Sewage PS11 Wasaga (1y) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-OPS		5004HS11	HEATERINSP	9/1/23	10/13/23	9/1/23
3554970	Heater Inspection Route Sewage PS14 Wasaga (1y) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-OPS		5004HS14	HEATERINSP	9/1/23	10/12/23	9/1/23
3554975	Heater Inspection Route Sewage PS18 Wasaga (1y) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-OPS		5004HS18	HEATERINSP	9/1/23	9/25/23	9/1/23
3554980	Heater Inspection Route Sewage PS19 Baywood (1y) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-OPS		5004HS19	HEATERINSP	9/1/23	11/10/23	9/1/23
3560660	Wiski7 Data Review Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM		GBAY-PCT			FACREV04-M	9/16/23	10/9/23	9/1/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3571107	PS2 HL and General, LL alarm active, bad float, 5004-C	5004-SP02	CALL	CLOSE	5 - Urgent	Colin Kasperavicius		0000082862				9/1/23	9/4/23
3571625	RSP #3 Bad Starter Relay 5004-SP02	5004-SP02	CORR	APPR	4 - High	Colin Kasperavicius	GBAY-MC1	0000082871					9/7/23
3571657	SPS#2 Pump 4 Replacement - CAPITAL	5004-SP02	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						9/7/23
3571783	Power fail alarm, Failed UPS, PS 19, 5004-C	5004-SP19	CALL	CLOSE	5 - Urgent	Colin Kasperavicius						9/5/23	9/8/23
3571862	Facility Health & Safety Insp Collections PS (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	9/9/23	9/26/23	9/9/23
3573047	High Level Pump Station 10	5004-SP10	CALL	CLOSE	5 - Urgent	Dustin Trace						9/13/23	9/13/23
3573345	RAS 1 High Level	5004	CALL	CLOSE	5 - Urgent	Dustin Trace		0000326875				9/14/23	9/14/23
3573553	5004 - Wasaga Beach High Level RAS1 & 2	5004	CALL	CLOSE	5 - Urgent	Stephanie Oddie	5004-O&M	0000326875				9/15/23	9/15/23
3573586	SPS#17 Discharge Elbow Repairs - CAPITAL	5004-SP17	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						9/15/23
3573900	5004 - Filter Reject High Call Back	5004	CALL	CLOSE	5 - Urgent	Stephanie Oddie	5004-OPS	0000326875				9/18/23	9/18/23
3574417	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM		GBAY-PCT	0000326875		CLIENTR-02	10/6/23	10/17/23	9/21/23
3575470	SPS 1 general alarm - power failure	5004-SP01	CALL	CLOSE	5 - Urgent	Angela Pauze						9/27/23	9/27/23
3575481	SPS#3 Alarm Dialler Installation - CAPTIAL	5004-SP03	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						9/27/23

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3575483	SPS#7 Alarm Dialler Installation - CAPITAL	5004-SP07	CAP	APPR	1 - Low	Colin Kasperavicius	5004-O&M						9/27/23
3575484	SPS#8 Alarm Dialler Installation - CAPITAL	5004-SP08	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						9/27/23
3575485	SPS#9 Alarm Dialler Installation - CAPITAL	5004-SP09	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						9/27/23
3575487	SPS#14 Alarm Dialler Installation - CAPITAL	5004-SP14	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						9/27/23
3575488	SPS#16 Alarm Dialler Installation - CAPITAL	5004-SP16	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						9/27/23
3575489	SPS#7 Vent Pipe Replacement - CAPTIAL	5004-SP07	CAP	APPR	1 - Low	Colin Kasperavicius	5004-OPS						9/27/23
3575490	WPCP Storage Tank #2 Vent Repair - CAPITAL	5004	CAP	CLOSE	1 - Low	Richard Eagle						12/12/23	9/27/23
3575491	WPCP RAS/WAS 1 Flow Meter Replacement - CAPTIAL	5004	CAP	APPR	1 - Low	John Bristow	5004-OPS						9/27/23
3586265	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	10/1/23	11/1/23	10/1/23
3586940	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	10/1/23	10/12/23	10/1/23
3586959	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	10/1/23	10/31/23	10/1/23
3586964	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	10/1/23	10/12/23	10/1/23
3586983	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	10/1/23	10/31/23	10/1/23
3586988	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	10/1/23	10/12/23	10/1/23
3587007	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	10/1/23	10/12/23	10/1/23
3587026	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	10/1/23	10/6/23	10/1/23
3587045	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	10/1/23	10/6/23	10/1/23
3587064	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	10/1/23	10/6/23	10/1/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3587092	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	10/1/23	10/12/23	10/1/23
3587116	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	10/1/23	10/12/23	10/1/23
3587128	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	10/1/23	10/18/23	10/1/23
3587147	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	10/1/23	10/18/23	10/1/23
3587166	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	10/1/23	10/6/23	10/1/23
3587185	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	10/1/23	10/12/23	10/1/23
3587216	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	10/1/23	10/18/23	10/1/23
3587235	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	10/1/23	10/6/23	10/1/23
3587380	Panel Control MCC Insp/Service PS01 Wasaga (3y) 5004	5004-SP01	PM	CLOSE	3 - PM		GBAY-UPI	0000082818		PANCON04-T	10/1/23	11/17/23	10/1/23
3587680	Panel PLC Sewage Insp/Service PS11 Wasaga (3y) 5004	5004-SP11	PM	CLOSE	3 - PM		GBAY-UPI	0000065896		PANCON04-T	10/1/23	11/17/23	10/1/23
3620605	5004C - Annual Sewage Pumping Stations (ALL) Clean/Pump-Out (1y) - CAPITAL	5004-SP01	CAP	APPR	3 - PM		GBAY-MGR				10/3/23		10/3/23
3621509	Facility Health & Safety Insp Collections PS (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	10/9/23	10/31/23	10/9/23
3622257	Pump fail alarm, power outage, PS18, 5004-SP18	5004-SP18	CALL	CLOSE	5 - Urgent	Colin Kasperavicius						10/8/23	10/9/23
3622712	sump pump motor seized, PS 3, 5004-SP03	5004-SP03	CORR	CLOSE	5 - Urgent	Colin Kasperavicius	GBAY-MC1	0000082979				11/5/23	10/12/23
3623233	PS 19 - RSP 2 alarm	5004-SP19	CALL	CLOSE	5 - Urgent	Angela Pauze						10/16/23	10/16/23
3623945	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM		GBAY-PCT	0000326875		CLIENTR-02	11/6/23	11/10/23	10/22/23
3624427	Wiski7 Data Review Wasaga Beach WPCP (1m) 5004	5004	PM	COMP	3 - PM		GBAY-PCT	0000326875		FACREV04-M	11/9/23	1/3/24	10/25/23
3634186	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			FACINS01-W	11/1/23	12/1/23	11/1/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3634881	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	11/1/23	11/7/23	11/1/23
3634900	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	11/1/23	11/3/23	11/1/23
3634905	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	11/1/23	11/2/23	11/1/23
3634924	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	11/1/23	11/3/23	11/1/23
3634929	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	11/1/23	11/2/23	11/1/23
3634948	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	11/1/23	11/8/23	11/1/23
3634967	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	11/1/23	11/2/23	11/1/23
3634986	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	11/1/23	11/7/23	11/1/23
3635005	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	11/1/23	11/2/23	11/1/23
3635033	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	11/1/23	11/2/23	11/1/23
3635057	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	11/1/23	11/7/23	11/1/23
3635069	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	11/1/23	11/7/23	11/1/23
3635088	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	11/1/23	11/7/23	11/1/23
3635107	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	11/1/23	11/7/23	11/1/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3635126	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	11/1/23	11/7/23	11/1/23
3635157	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	11/1/23	11/7/23	11/1/23
3635176	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	11/1/23	11/2/23	11/1/23
3635233	Drive VFD RAS/PS03 Insp/Service Route WB (1y) 5004	5004-WWWB	PM	CLOSE	3 - PM		GBAY-UPI		5004DVFD	DRIVFD01-A	11/1/23	11/30/23	11/1/23
3635239	Soft Starter Insp/Service Route PS09 Wasaga B (1y) 5004	5004-WWWB	PM	CLOSE	3 - PM		GBAY-UPI		5004SOFT	DRIVFD01-A	11/1/23	11/29/23	11/1/23
3646127	Panel Breaker Main Inspection PS#12 (1y) 5004	5004-SP12	PM	CLOSE	3 - PM	John Bristow	GBAY-UPI	0000327176		PANBRE01-A	11/1/23	12/19/23	11/1/23
3662067	CC01- Nottawa Rd Pump Station - Wasaga Beach WPCP - Alarm Beacon Complaint	5004	PM	CLOSE	5 - Urgent	Angela Pauze	GBAY-OPS					11/8/23	11/3/23
3663196	Facility Health & Safety Insp Collections PS (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	11/9/23	11/17/23	11/9/23
3663876	WSER - Q1 Submission (Due May 15) - Wasaga Beach WPCP- 5004	5004	PM	CLOSE	3 - PM		GBAY-PCT	0000326875	1600WWTP	RP05	11/9/23	11/10/23	11/9/23
3663879	WSER - Q3 Submission (Due November 14) - Wasaga Beach WPCP- 5004	5004	PM	CLOSE	3 - PM		GBAY-PCT	0000326875		RP05	11/14/23	11/10/23	11/9/23
3664035	PS6 general	5004-SP06	CALL	CLOSE	5 - Urgent	Dustin Trace						11/10/23	11/10/23
3665032	SPS#1 Pump Replacement - CAPITAL	5004-SP01	CAP	APPR	1 - Low	Richard Eagle	5004-OPS						11/17/23
3665342	UPS replacement - 5004-SP19	5004-SP19	CAP	COMP	4 - High	John Bristow						1/12/24	11/20/23
3665428	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	CLOSE	3 - PM		GBAY-PCT	0000326875		CLIENTR-02	12/6/23	12/8/23	11/21/23
3666084	SPS 19 GENERATOR FAIL ALARM	5004-SP19	CALL	CLOSE	5 - Urgent	Angela Pauze						11/26/23	11/26/23
3666590	WPCP Generator Building Roof Repair - CAPITAL	5004	CAP	CLOSE	1 - Low	Richard Eagle						12/12/23	11/29/23
3666592	WPCP Building Repairs - CAPITAL	5004	CAP	APPR	1 - Low	Richard Eagle							11/29/23
3666615	PS# 6 Pump #4 Repair CAPITAL	5004-SP06	CAP	COMP	1 - Low	Colin Kasperavicius	GBAY-MC1	0000156688				3/20/24	11/29/23
3666798	SPS#14 Pump 2 Repair - CAPITAL	5004-SP14	CAP	APPR	1 - Low	Colin Kasperavicius	GBAY-MC1	0000083862					11/30/23
3675286	Daily O&M Activities Wasaga Beach Collections (1m) 5004	5004-SP01	OPER	COMP	3 - PM		GBAY-OPS			FACINS01-W	12/1/23	1/4/24	12/1/23
3675948	Engine Diesel Genset Test PS09 (1m) 5004	5004-SP09	PM	CLOSE	3 - PM		5004-C	0000082784		ENGDIE02-M	12/1/23	12/4/23	12/1/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3675967	Panel Annunciator In MCC Testing PS01 (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-OPS	0000082820		PANALA02-M	12/1/23	12/12/23	12/1/23
3675972	Engine Diesel Genset Test PS01 Wasaga (1m) 5004	5004-SP01	PM	CLOSE	3 - PM		5004-C	0000082841		ENGDIE02-M	12/1/23	12/7/23	12/1/23
3675991	Panel Annunciator Testing PS02 Wasaga (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-OPS	0000082863		PANALA02-M	12/1/23	12/12/23	12/1/23
3675996	Engine Diesel Genset Test PS02 Wasaga Beach (1m) 5004	5004-SP02	PM	CLOSE	3 - PM		5004-C	0000082888		ENGDIE02-M	12/1/23	12/7/23	12/1/23
3676015	Engine Diesel Genset Test PS03 Wasaga Beach (1m) 5004	5004-SP03	PM	CLOSE	3 - PM		5004-C	0000082985		ENGDIE02-M	12/1/23	12/5/23	12/1/23
3676034	Engine Diesel Genset Test PS11 Wasaga Beach (1m) 5004	5004-SP11	PM	CLOSE	3 - PM		5004-C	0000083065		ENGDIE02-M	12/1/23	12/5/23	12/1/23
3676053	Engine Diesel Genset Test PS04 Wasaga Beach (1m) 5004	5004-SP04	PM	CLOSE	3 - PM		5004-C	0000083090		ENGDIE02-M	12/1/23	12/5/23	12/1/23
3676072	Engine Diesel Genset Test PS14 Wasaga Beach (1m) 5004	5004-SP14	PM	CLOSE	3 - PM		5004-C	0000083883		ENGDIE02-M	12/1/23	12/5/23	12/1/23
3676120	Engine Diesel Genset Test PS15 Wasaga Beach (1m) 5004	5004-SP15	PM	CLOSE	3 - PM		5004-C	0000092930		ENGDIE02-M	12/1/23	12/7/23	12/1/23
3676144	Engine Natural Gas Genset Test PS05 Wasaga B (1m) 5004	5004-SP05	PM	CLOSE	3 - PM		5004-C	0000156631		ENGNAT01	12/1/23	12/7/23	12/1/23
3676156	Engine Diesel Genset Test PS08 Wasaga Beach (1m) 5004	5004-SP08	PM	CLOSE	3 - PM		5004-C	0000156657		ENGDIE02-M	12/1/23	12/4/23	12/1/23
3676175	Engine Diesel Genset Test PS07 Wasaga Beach (1m) 5004	5004-SP07	PM	CLOSE	3 - PM		5004-C	0000156669		ENGDIE02-M	12/1/23	12/4/23	12/1/23
3676194	Engine Diesel Genset Test PS06 Wasaga Beach (1m) 5004	5004-SP06	PM	CLOSE	3 - PM		5004-C	0000156681		ENGDIE02-M	12/1/23	12/13/23	12/1/23
3676213	Engine Natural Gas Genset Test PS13 Wasaga (1m) 5004	5004-SP13	PM	CLOSE	3 - PM		5004-C	0000156694		ENGNAT01	12/1/23	12/5/23	12/1/23
3676244	Engine Diesel Genset Test PS18 Wasaga Beach (1m) 5004	5004-SP18	PM	CLOSE	3 - PM		5004-C	0000276770		ENGDIE02-M	12/1/23	12/5/23	12/1/23
3676263	Engine Diesel Genset Test PS19 Baywood WB (1m) 5004	5004-SP19	PM	CLOSE	3 - PM		5004-C	0000276838		ENGDIE02-M	12/1/23	12/5/23	12/1/23
3676597	Engine Diesel Sewage Insp/Srv PS09 Wasaga (1y) 5004	5004-SP09	PM	CLOSE	3 - PM		GBAY-MC1	0000082784		ENGDIE02-A	12/1/23	12/19/23	12/1/23
3676636	Engine Diesel Sewage Insp/Srv PS01 Wasaga (1y) 5004	5004-SP01	PM	CLOSE	3 - PM		GBAY-MC1	0000082841		ENGDIE02-A	12/1/23	12/19/23	12/1/23

ONTARIO CLEAN WATER AGENCY
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Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3676675	Engine Diesel Genset Insp/Srv PS02 Wasaga (1y) 5004	5004-SP02	PM	CLOSE	3 - PM		GBAY-MC1	0000082888		ENGDIE02-A	12/1/23	12/19/23	12/1/23
3676714	Engine Diesel Gen Insp/Service PS03 Wasaga (1y) 5004	5004-SP03	PM	CLOSE	3 - PM		GBAY-MC1	0000082985		ENGDIE02-A	12/1/23	12/19/23	12/1/23
3676753	Engine Diesel Gen Insp/Service PS11 Wasaga (1y) 5004	5004-SP11	PM	CLOSE	3 - PM		GBAY-MC1	0000083065		ENGDIE02-A	12/1/23	12/19/23	12/1/23
3676792	Engine Diesel Genset Insp/Srv PS04 Wasaga (1y) 5004	5004-SP04	PM	CLOSE	3 - PM		GBAY-MC1	0000083090		ENGDIE02-A	12/1/23	12/19/23	12/1/23
3676831	Engine Diesel Sewage Insp/Srv PS15 Wasaga (1y) 5004	5004-SP15	PM	CLOSE	3 - PM		GBAY-MC1	0000092930		ENGDIE02-A	12/1/23	12/19/23	12/1/23
3704224	Facility Health & Safety Insp Collections PS (1m) 5004	5004-SP01	OPER	CLOSE	3 - PM		5004-C			HSCWI-MR01	12/9/23	12/12/23	12/9/23
3705782	Pump Station 9 - High Wetwell Alarm	5004-SP09	CALL	CLOSE	5 - Urgent	Angela Pauze						12/15/23	12/15/23
3706419	Meter Level PS12 Wet Well Inspection/Service (1y) 5004	5004-SP12	PM	COMP	3 - PM		GBAY-UPI	0000327175		METLEV02-A	12/21/23	2/2/24	12/21/23
3706524	Wasaga Beach WWTP- PCT Office- 2023 Annual Workplace Inspection Action Item- Declutter Office	5004	OPER	COMP	3 - PM	Michelle Neal	GBAY-PCT	0000326875				1/26/24	12/21/23
3706573	Monthly Performance Reports- Wasaga Beach WPCP (1m) 5004	5004	PM	COMP	3 - PM		GBAY-PCT	0000326875		CLIENTR-02	1/6/24	1/18/24	12/22/23
3707343	RSP#2- Continuous temperature fault on Minicas	5004-SP07	CORR	APPR	4 - High	Colin Kasperavicius	GBAY-MC1	0000326881					12/29/23

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Management System (WMS)

Work Order List

Site: OCWASITE

Work Order	Description	Location	Type	Status	Criticality	Lead	Crew Work Group	Asset	Route	Job Plan	Scheduled Start	Actual Start	Reported Date
3707458	OCWA Annual Workplace Inspection PS Wasaga (1y) 5004	5004-SP01	OPER	APPR	3 - PM		GBAY-H&S		5004PSTN	HSCWI-A	12/31/23		12/31/23

Number of Records: 501

Calibration Reports for 2023

Appendix C

Calibration Reports: Influent and Effluent Flow Meters

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **OCM III**
OPEN CHANNEL FLOW MEASUREMENT

Customer Name:	OCWA- Georgian Bay
Plant Name:	5004-Wasaga Beach WWTP
Site/Plant Address:	30 Woodland Drive Wasaga Beach, ON

Device Information	
Make:	Milltronics
Model:	OCM III
Tag:	N/A
Job Location:	Influent Flow meter
Asset ID:	82748

Service Information	
Date:	September 11, 2023
Report No:	CO1476-2308-01
Job No:	CO1476-2308

Flow Details	
Unit:	m3/day
Flow Range:	0- 58638.35 m3/day
Current Output:	4-20 mA
4 mA Set Point	0 m3/day
20 mA Set Point	58638.35 m3/day

Inst. Reading	AS FOUND	AS LEFT
FLOW (m3/day)	13793.52	582.22

Maintenance Checklist				Remarks
Visual Inspection:	☑	OK	☐ NOT OK	
Electrical Inspection:	☑	OK	☐ NOT OK	

Programming Parameter of Instrument

Parameter	Discription	Value	Parameter	Discription	Value
F0	Access Code	0	P7	Height of Max. Head	0.75
P1	Dimension Unit (m)	3	P32	Totalizer Multiplier	1
P3	Exponential Device	0	P42	Head by OCM III	0
P4	Cal. Method	0	P45	Low Flow Cut-off	0
P5	Flow Unit - m3/day	7	P46	Range at Zero Head	1.146114
P6	Max Flow rate	58638.35	P47	Blanking Distance	0.304826

Test Point Report

Reference Distance (m)	Measured Distance (m)	Calculated Flow (m3/day)	UUT Flow Display (m3/day)	Calculated (mA)	Measured (mA)	Deviaiton (mA)
0.210	0.208	8,277.72	8,156.78	6.82	6.80	-0.02
0.120	0.121	3,500.41	3,545.37	5.19	5.23	0.04

Calculations

Flow Calculations
Q =K H^Exp Where, Q= Discharge Flow, K= 91191.89 Exp = 1.538 H= head
Q = 91272 (0.210)^1.538
Q =8277.72

Instrument Test Information and Results

Input (%)	Calculated Flow(m3/day)	Calculated Input (mA)	Flow on UUT (m3/day)	UUT Measured Output (mA)	Deviation (mA)
0	0.00	4.00	0.01	3.98	-0.02
25	14659.59	8.00	14660.12	8.06	0.06
50	29319.18	12.00	29318.29	11.95	-0.05
75	43978.77	16.00	43979.59	16.05	0.05
100	58638.35	20.00	58637.61	19.97	-0.03

Information of Tools used for Verification of the Instruments

Device Description:	Manufacturer	Model
Electrical Multimeter	Fluke	179

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Program parameters verified Single/Two Point Verification Done
Service Technician :	Tushar Patel
Printed Date:	September 11, 2023
Stamp/Signature	

End of Report

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **OCM III**
OPEN CHANNEL FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Drive
Plant Name:	5004-Wasaga Beach WWTP		Wasaga Beach, ON

Device Information	
Make:	Milltronics
Model:	OCM III
Tag:	N/A
Job Location:	Effluent Flow meter
Asset ID:	82491

Service Information	
Date:	September 11, 2023
Report No:	CO1476-2308-02
Job No:	CO1476-2308

Flow Details	
Unit:	m3/day
Flow Range:	0- 51555.04 m3/day
Current Output:	4-20 mA
4 mA Set Point	0 m3/day
20 mA Set Point	51555.04 m3/day

Inst. Reading	AS FOUND	AS LEFT
FLOW (m3/day)	3912.109	562.25

Maintenance Checklist				Remarks
Visual Inspection:	☑	OK	☐ NOT OK	
Electrical Inspection:	☑	OK	☐ NOT OK	

Programming Parameter of Instrument

Parameter	Discription	Value	Parameter	Discription	Value
F0	Access Code	0	P7	Height of Max. Head	0.69
P1	Dimension Unit (cm)	3	P32	Totalizer Multiplier	1
P3	Exponential Device	0	P42	Head by OCM III	0
P4	Cal. Method -Ratiometric	0	P45	Low Flow Cut-off	0
P5	Flow Unit - m3/Hr	7	P46	Range at Zero Head	1.025
P6	Max Flow rate	51555.04	P47	Blanking Distance	0.3348

Test Point Report

Reference Distance (m)	Measured Distance (m)	Calculated Flow (m3/day)	UUT Flow Display (m3/day)	Calculated (mA)	Measured (mA)	Deviaiton (mA)
0.225	0.222	9,196.30	9,008.39	7.57	7.49	-0.08
0.270	0.272	12,172.89	12,311.85	8.72	8.83	0.11

Calculations

Flow Calculations
Q =K H^Exp Where, Q= Discharge Flow, K= 91191.89 Exp = 1.538 H= head
Q = 91191.89 (0.222)^1.538
Q =9196.30

Instrument Test Information and Results

Input (%)	Calculated Flow(m3/day)	Calculated Input (mA)	Flow on UUT (m3/day)	UUT Measured Output (mA)	Deviation (mA)
0	0.00	4.00	0.00	4.01	0.01
25	12888.76	8.00	12891.23	8.05	0.05
50	25777.52	12.00	25776.36	11.96	-0.04
75	38666.28	16.00	38666.02	15.99	-0.01
100	51555.04	20.00	51553.02	19.97	-0.03

Information of Tools used for Verification of the Instruments

Device Description:	Manufacturer	Model
Electrical Multimeter	Fluke	179

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Program parameters verified Single/Two Point Verification Done

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	September 11, 2023		

End of Report

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **KHRONE**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Drive
Plant Name:	5004-Wasaga Beach WWTP		Wasaga Beach

Device Information		Service Information	
Make:	Khrone	Date:	September 11, 2023
Model:	IFC 090	Report No:	CO1476-2308-03
Serial No.:	4957184	Job No:	CO1476-2308
Tag:	NA		
Job Location:	SEPTAGE INLET	Flow Details	
Asset ID:	82578	Unit:	L/sec
		Flow Range:	0-60
		Current Output:	4-20 mA
Sensor Details		4 mA Set Point	0
Line size:	3 Inch	20 mA Set Point	60
GK:	2.487		
GKL:	NA	Inst. Reading	AS FOUND / AS LEFT
Mounting:	Remote	FLOW (l/sec)	0.00 / 0.00

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Set-Point as Per Calibration KIT	Calculated Flow (l/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)
0	0.00	4.00	0.03	3.99	0.03
A	1.91	4.51	1.89	4.48	-0.02
B	3.81	5.02	3.83	5.04	0.02
C	7.62	6.03	7.65	6.06	0.03
D	19.05	9.08	18.99	9.02	-0.06
E	38.10	14.16	38.06	14.15	-0.04

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Calibrator	Electrical Multimeter	N/A
Manufacturer:	Khrone	Fluke	N/A
Model No:	GS8B	179	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	September 11, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ABB**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr,
Plant Name:	5004-Wasaga Beach WWTP		Wasaga Beach

Device Information		Service Information	
Make:	F&P	Date:	September 11, 2023
Part No:	50XE43AAAABDBA00B2	Report No:	CO1476-2308-4
Serial No.:	4285860403	Job No:	CO1476-2308
Tag:	NA		
Job Location:	Tanker Loading	**Flow Details**	
Asset ID:		Unit:	l/sec
		Flow Range:	0 - 100 l/sec
Sensor Details		Current Output:	4-20 mA
Line size:	6 Inch	4 mA Set Point	0
Mounting:	Remote	20 mA Set Point	67

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	92120.7	92120.7
FLOW (l/sec)	0.00000	0.00000

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	Display Malfunctioning
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	UUT Display (l/sec)	Deviation (l/sec)
1	21.21	0.00	-21.21
2	21.10	0.00	-21.10
3	21.35	0.00	-21.35

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☑ Fail	☐ Not Verified

Overall Remarks:	Display showing error. Electronics Faulty. Measurement Works was not within Specification.

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	September 11, 2023		

End of Report

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ABB**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Drive
Plant Name:	5004-Wasaga Beach WWTP		Wasaga Beach, ON

Device Information		Service Information	
Make:	F&P	Date:	September 11, 2023
Part No:	50XE43AAAABDBA00B2	Report No:	CO1476-2308-5
Serial No.:	4285860401	Job No:	CO1476-2308
Tag:	NA		
Job Location:	WAS FM	Flow Details	
Asset ID:	082204	Unit:	l/sec
		Flow Range:	NA
Sensor Details		Current Output:	4-20 mA
Line size:	6 Inch	4 mA Set Point	0
Mounting:	Remote	20 mA Set Point	NA

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	454109	454112
FLOW (l/sec)	0.00216	0.00253

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	UUT Display (l/sec)	Deviation (l/sec)
1	18.20	17.89	-0.31
2	17.25	16.94	-0.31
3	17.73	17.50	-0.23

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	September 11, 2023		

End of Report

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ABB**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay
Plant Name:	5004-Wasaga Beach WWTP
Site/Plant Address:	30 Woodland Drive Wasaga Beach, ON

Device Information	
Make:	ABB
Part No:	FEW 325
Serial No.:	4231740401
Tag:	NA
Job Location:	RAS Discharge FM
Asset ID:	

Service Information	
Date:	September 11, 2023
Report No:	**CO1476-2308**-6
Job No:	CO1476-2308

Sensor Details	
Line size:	12 Inch
Mounting:	Remote

Flow Details	
Unit:	l/sec
Flow Range:	0 - 694.434 l/sec
Current Output:	4-20 mA
4 mA Set Point	0
20 mA Set Point	694.434

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	2634015	2634148
FLOW (l/sec)	73.24000	74.13000

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	UUT Display (l/sec)	Deviation (l/sec)
1	73.69	74.23	0.54
2	74.93	75.20	0.26
3	72.29	72.87	0.58

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	September 11, 2023		

End of Report

Verification report Promag 400

Endress+Hauser
People for Process Automation

Plant operator: INDUSCONTROL INC.

Device information

Location	WB Supernate
Device tag	WB Supernate
Module name	K323-00
Nominal diameter	DN150 / 6"
Device name	Promag 400
Order code	5W4C1F-16T60/0
Serial number	R803CA16000
Firmware version	02.01.00

Calibration

Calibration factor	1.0463
Zero point	-0.3

Verification information

Operating time (counter)	1089d23h30m17s
Date/time (manually recorded)	11.09.23 12:10
Verification ID	1
Verification mode	Standard verification

Overall verification result*

☑ Passed	Details see next page

*Result of the complete device functionality test via Heartbeat Technology

Confirmation

Heartbeat Verification verifies the function of the flowmeter within the specified measuring tolerance, over the useful lifetime of the device, with a total test coverage > 94 %, and complies with the requirements for traceable verification according to DIN EN ISO 9001:2008 – Section 7.6 a. (attested by TÜV-SÜD Industrieservices GmbH)

Notes

11.09.23		
Date	Operator's signature	Inspector's signature

Verification report Promag 400

Endress+Hauser
People for Process Automation

Plant operator: INDUSCONTROL INC.

Device identification and verification identification

Serial number	R803CA16000
Device tag	WB Supernate
Verification ID	1

Heartbeat Technology

Sensor	☑ **Passed**
Shot time symmetry	☑ Passed
Hold voltage symmetry	☑ Passed
Coil current loss	☑ Passed
Coil current stability	☑ Passed
Coil resistance	☑ Passed
E1 electrode cable	☑ Passed
E2 electrode cable	☑ Passed
EPD electrode cable	☑ Passed
Sensor electronic module (ISEM)	☑ **Passed**
Supply voltage	☑ Passed
Internal voltages	☑ Passed
Linearity and reference voltage	☑ Passed
Offset of electrode measuring circuit	☑ Passed
Hold voltage feedback	☑ Passed
Shot voltage feedback	☑ Passed
Electronic current loss	☑ Passed
Coil circuit measurement	☑ Passed
Shot control circuit	☑ Passed
Electrode signal integrity	☑ Passed
System status	☑ **Passed**
I/O module	☑ **Passed**
Input/output 1	☑ Passed
Input/output 2	? Not done
Input/output 3	? Not done

Plant operator: INDUSCONTROL INC.

Device identification and verification identification

Serial number	R803CA16000
Device tag	WB Supernate
Verification ID	1

Heartbeat Technology

Test item with value	Unit	Actual	Min.	Max.	Visualization
Sensor					
Shot time symmetry deviation		1.0007	0.9000	1.1000	
Hold voltage symmetry deviation		1.0000	0.9000	1.1000	
Coil current loss deviation	%	0.0000	-10.0000	10.0000	
Coil current offset	%	0.0000	-0.1000	0.1000	
Coil current deviation	%	-0.01625	-0.1000	0.1000	
Coil resistance value	Ohm	126.3	50.0	240.0	
E1 electrode impedance	Ohm	212.06			
E2 electrode impedance	Ohm	210.11			
EPD electrode impedance	Ohm	5759.65			
E1/E2 electrode impedance on E1	Ohm	214.03			
E1/E2 electrode impedance on E2	Ohm	212.17			
Sensor electronic module (ISEM)					
Supply voltage 30.0V	V	31.15	27.000	35.000	
Linearity and reference voltage 1		0.9998	0.9900	1.0100	
Linearity and reference voltage 2		0.9996	0.9900	1.0100	
Measuring point offset		-8.2155	-100.0000	100.0000	
Hold voltage feedback value	%	1.22	-10.0	10.0	
Shot voltage feedback value	%	-0.67	-20.0	20.0	
Electronic current loss deviation	%	0.11	-10.0000	10.0000	
Coil circuit value	%	0.00	-1.0	1.0	
Shot control circuit value	%	-0.17	-10.0	10.0	
Electrode signal integrity deviation	%	0.87	-40.0	40.0	

Test item with value	Unit	Actual	Min.	Max.	Visualization
I/O module					
Output 1 value 1	mA	4.0255	3.8600	4.1400	
Output 1 value 2		0.0000	0.0000	0.0000	
Output 2 value 1		0.0000	0.0000	0.0000	
Output 3 value 1		0.0000	0.0000	0.0000	

Plant operator: INDUSCONTROL INC.

Device identification and verification identification

Serial number	R803CA16000
Device tag	WB Supernate
Verification ID	1

Heartbeat Technology

Test item with value	Unit	Actual
Process conditions		
Volume flow value verification	l/s	0.0000
Conductivity value verification	µS/cm	-nan
Electronic temperature	°F	108.6
Current difference potential	V	0.007994
Current potential electrode 1	V	0.03455
Current potential electrode 2	V	0.02182
Current potential electrode Pipe GND	V	0.001796

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ABB**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS01		Pump Station 01

Device Information		Service Information	
Make:	F&P	Date:	September 11, 2023
Part No:	10DX3311AAD17P1A3BA	Report No:	CO1476-2308-07
Serial No.:	4231740101	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS01	Flow Details	
Asset ID:	82845	Unit:	l/sec
		Flow Range:	0 - 100 l/sec
Sensor Details		Current Output:	4-20 mA
Line size:	6 Inch	4 mA Set Point	0
Mounting:	Compact	20 mA Set Point	100

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	2420373	2420376
FLOW (l/sec)	0.00012	0.00015

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	Display Malfunctioning
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	UUT Display (l/sec)	Deviation (l/sec)
1	31.63	30.98	-0.65
2	31.18	30.58	-0.60
3	31.39	30.30	-1.09

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 11, 2023		

End of Report

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ABB**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS02		Pump Station 02

Device Information		Service Information	
Make:	F&P	Date:	September 11, 2023
Part No:	10DX3311AAD17P1A3BA	Report No:	CO1476-2308-08
Serial No.:	42317A0201	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS02		
Asset ID:	82909		

Sensor Details		Flow Details	
Line size:	8 Inch	Unit:	l/sec
Mounting:	Compact	Flow Range:	0 - 200 l/sec
		Current Output:	4-20 mA
		4 mA Set Point	0
		20 mA Set Point	200

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	8347401	8347407
FLOW (l/sec)	52.79115	0.00115

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	Display Malfunctioning
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	UUT Display (l/sec)	Deviation (l/sec)
1	37.96	38.82	0.86
2	51.87	52.89	1.02
3	50.95	51.76	0.81

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 11, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ABB**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS03		Pump Station 03

Device Information		Service Information	
Make:	F&P	Date:	September 11, 2023
Part No:	50PZ126A1X2	Report No:	CO1476-2308-09
Serial No.:	4231740301	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS03		
Asset ID:	82986		

Sensor Details		Flow Details	
Line size:	12 Inch	Unit:	l/sec
Mounting:	Compact	Flow Range:	0 - 600 l/sec
		Current Output:	4-20 mA
		4 mA Set Point	0
		20 mA Set Point	600

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	8518280	8518347
FLOW (l/sec)	0.00	0.00000

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	Display Malfunctioning
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	UUT Display (l/sec)	Deviation (l/sec)
1	77.87	78.36	0.49
2	83.68	84.34	0.66
3	90.23	91.04	0.81

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	September 11, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ABB**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay
Plant Name:	PS04
Site/Plant Address:	30 Woodland Dr, Wasaga Beach
	Pump Station 04

Device Information

Make:	F&P
Part No:	10D1435A
Serial No.:	8005B2046/2/B2
Tag:	NA
Job Location:	PS04
Asset ID:	83093

Service Information

Date:	September 11, 2023
Report No:	CO1476-2308-10
Job No:	CO1476-2308

Sensor Details

Line size:	6 Inch
Mounting:	Compact

Flow Details

Unit:	l/sec
Flow Range:	0 - 100 l/sec
Current Output:	4-20 mA
4 mA Set Point	0
20 mA Set Point	100

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	NA	NA
FLOW (l/sec)	0.00	0.00

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	Display Malfunctioning
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	HMI Display (l/sec)	Deviation (l/sec)
1	16.89	17.2	0.31
2	14.90	15.8	0.90
3	15.23	15.4	0.17

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	September 11, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **KHRONE**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS06		Pumping Station 06

Device Information		Service Information	
Make:	Khrone	Date:	September 12, 2023
Model:	IFC 020	Report No:	CO1476-2308-12
Serial No.:	A0315043	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS06	**Flow Details**	
Asset ID:	156680	Unit:	L/sec
		Flow Range:	0-175
Sensor Details		Current Output:	4-20 mA
Line size:	8 Inch	4 mA Set Point	0
GK:	2.221	20 mA Set Point	175
GKL:	NA		
Mounting:	Remote		

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	2138892	2138946
FLOW (l/sec)	0.01	0.00

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	UUT Display (l/sec)	Deviation (l/sec)
1	30.29	30.36	0.07
2	31.32	31.01	-0.31
3	30.89	31.35	0.46

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **KHRONE** ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS07		Pumping Station 07

Device Information		Service Information	
Make:	Khrone	Date:	September 12, 2023
Model:	IFC 020	Report No:	CO1476-2308-13
Serial No.:	A0265079	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS07		
Asset ID:	156663		

Sensor Details		Flow Details	
Line size:	12 Inch	Unit:	L/sec
GK:	3.2165	Flow Range:	0-350
GKL:	NA	Current Output:	4-20 mA
Mounting:	Remote	4 mA Set Point	0
		20 mA Set Point	350

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	3992483.3	3992519.2
FLOW (l/sec)	0.0	0.2

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Set-Point as Per Calibration KIT	Calculated Flow (l/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)
0	0.00	4.00	0.0	4.00	0.00
A	34.65	5.58	34.7	5.60	0.05
B	69.30	7.17	69.4	7.20	0.11
C	138.60	10.34	138.5	10.32	-0.08
D	346.50	19.84	346.6	19.91	0.10

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Calibrator	Electrical Multimeter	N/A
Manufacturer:	Khrone	Fluke	N/A
Model No:	GS8B	179	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
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VERIFICATION REPORT - **KHRONE**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS08		Pumping Station 08

Device Information		Service Information	
Make:	Khrone	Date:	September 12, 2023
Model:	IFC 020	Report No:	CO1476-2308-14
Serial No.:	A0267294	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS08		
Asset ID:	156653		

Sensor Details		Flow Details	
Line size:	12 Inch	Unit:	L/sec
GK:	6.469	Flow Range:	0-350
GKL:	NA	Current Output:	4-20 mA
Mounting:	Remote	4 mA Set Point	0
		20 mA Set Point	350

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	18632121	18632164
FLOW (l/sec)	161.2	6.7

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Set-Point as Per Calibration KIT	Calculated Flow (l/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)
0	0.00	4.00	0.0	4.02	0.03
A	69.69	7.19	69.8	7.21	0.06
B	139.37	10.37	139.1	10.35	-0.27
C	278.75	16.74	278.6	16.78	-0.15

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Calibrator	Electrical Multimeter	N/A
Manufacturer:	Khrone	Fluke	N/A
Model No:	GS8B	179	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ABB**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS09		Pump Station 09

Device Information		Service Information	
Make:	F&P	Date:	September 12, 2023
Part No:	10D1465PDD21PB31AD1C112	Report No:	**CO1476-2308**-15
Serial No.:	4231740401	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS09	Flow Details	
Asset ID:	82987	Unit:	l/sec
		Flow Range:	0 - 600 l/sec
Sensor Details		Current Output:	4-20 mA
Line size:	14 Inch	4 mA Set Point	0
Mounting:	Compact	20 mA Set Point	600

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	3678690	3678692
FLOW (l/sec)	172.23000	173.15000

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	Display Malfunctioning
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	UUT Display (l/sec)	Deviation (l/sec)
1	173.29	175.01	1.72
2	174.25	175.81	1.56
3	179.39	180.11	0.72

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ABB**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS11		Pump Station 11

Device Information		Service Information	
Make:	Polysonics	Date:	September 12, 2023
Part No:	DHT	Report No:	CO1476-2308-16
Serial No.:	13880	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS11		
Asset ID:	83060		

Sensor Details		Flow Details	
Line size:	NA	Unit:	l/sec
Mounting:	Remote	Flow Range:	0 - 100 l/sec
		Current Output:	4-20 mA
		4 mA Set Point	0
		20 mA Set Point	100

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	14879783	1487984
FLOW (l/sec)	0	0

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	Display Malfunctioning
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	UUT Display (l/sec)	Deviation (l/sec)
1	19.02	19	0.16
2	19.30	20	0.50
3	24.15	25	0.72

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **KHRONE**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS13		Pumping Station 13

Device Information		Service Information	
Make:	Khrone	Date:	September 12, 2023
Model:	IFC 020	Report No:	CO1476-2308-17
Serial No.:	A0126753	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS13		
Asset ID:	156691		

Sensor Details		Flow Details	
Line size:	3 Inch	Unit:	L/sec
GK:	2.598	Flow Range:	0-10
GKL:	NA	Current Output:	4-20 mA
Mounting:	Remote	4 mA Set Point	0
		20 mA Set Point	10

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	13960.4	13960.4
FLOW (l/sec)	NA	NA

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Set-Point as Per Calibration KIT	Calculated Flow (l/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)
0	0.00	4.00	NA	NA	#VALUE!
A	1.99	7.18	NA	NA	#VALUE!
B	3.98	10.37	NA	NA	#VALUE!
C	7.96	16.74	NA	NA	#VALUE!

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Calibrator	Electrical Multimeter	N/A
Manufacturer:	Khrone	Fluke	N/A
Model No:	GS8B	179	N/A
Verification Test Result:	☐ Passed	☑ Fail	☐ Not Verified

Overall Remarks:	Sensor Found Faulty. Measurement Works was not within Specification.

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **KHRONE**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS14		Pumping Station 14

Device Information		Service Information	
Make:	Khrone	Date:	September 12, 2023
Model:	IFC 020	Report No:	CO1476-2308-18
Serial No.:	076504	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS14		
Asset ID:	83867		

Sensor Details		Flow Details	
Line size:	8 Inch	Unit:	L/sec
GK:	4.2143	Flow Range:	0-94.64
GKL:	NA	Current Output:	4-20 mA
Mounting:	Remote	4 mA Set Point	0
		20 mA Set Point	94.64

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	1287954	1287954
FLOW (l/sec)	0.00	0.00

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Set-Point as Per Calibration KIT	Calculated Flow (l/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)
0	0.00	4.00	NA	NA	#VALUE!
A	20.18	7.41	NA	NA	#VALUE!
B	40.35	10.82	NA	NA	#VALUE!
C	80.71	17.64	NA	NA	#VALUE!

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Calibrator	Electrical Multimeter	N/A
Manufacturer:	Khrone	Fluke	N/A
Model No:	GS8B	179	N/A
Verification Test Result:	☐ Passed	☑ Fail	☐ Not Verified

Overall Remarks:	Transmitter Found Faulty. Measurement Works was not within Specification.

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **KHRONE**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS15		Pumping Station 15

Device Information		Service Information	
Make:	Khrone	Date:	September 12, 2023
Model:	IFC 020F	Report No:	CO1476-2308-19
Serial No.:	A0422877	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS-15	Flow Details	
Asset ID:	92555	Unit:	L/sec
		Flow Range:	0-120
Sensor Details		Current Output:	4-20 mA
Line size:	8 Inch	4 mA Set Point	0
GK:	4.0559	20 mA Set Point	120
GKL:	NA		
Mounting:	Remote		

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	1528654	1528667
FLOW (l/sec)	0.01	23.34

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Set-Point as Per Calibration KIT	Calculated Flow (l/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)
0	0.00	4.00	0.01	4.01	0.01
A	19.42	6.59	19.50	6.61	0.08
B	38.84	9.18	38.98	9.21	0.14
C	77.68	14.36	77.52	14.29	-0.16

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Calibrator	Electrical Multimeter	N/A
Manufacturer:	Khrone	Fluke	N/A
Model No:	GS8B	179	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **KHRONE**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS18		Pumping Station 18

Device Information		Service Information	
Make:	Khrone	Date:	September 12, 2023
Model:	IFC 100	Report No:	CO1476-2308-20
Serial No.:	C14500965	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS-18		
Asset ID:	276778		

Sensor Details		Flow Details	
Line size:	12 Inch	Unit:	L/sec
GK:	NA	Flow Range:	0-350
GKL:	7.8474	Current Output:	4-20 mA
Mounting:	Remote	4 mA Set Point	0
		20 mA Set Point	350

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	396328.03	396340.267
FLOW (l/sec)	0.0	10.7

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Set-Point as Per Calibration KIT	Calculated Flow (l/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)
0	0.00	4.00	0.0	4.01	0.02
A	42.27	5.93	42.3	5.95	0.04
B	84.54	7.86	84.5	7.92	-0.06
C	169.07	11.73	169.1	11.79	0.05

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Calibrator	Electrical Multimeter	N/A
Manufacturer:	Khrone	Fluke	N/A
Model No:	GS8B	179	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **KHRONE**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS19		Pumping Station 19

Device Information		Service Information	
Make:	Khrone	Date:	September 12, 2023
Model:	IFC 100	Report No:	CO1476-2308-21
Serial No.:	C12502319	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS-19	Flow Details	
Asset ID:	276822	Unit:	L/sec
		Flow Range:	0-40
Sensor Details		Current Output:	4-20 mA
Line size:	8 Inch	4 mA Set Point	0
GK:	NA	20 mA Set Point	40
GKL:	8.9935		
Mounting:	Remote		

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	344753.2	344778.6
FLOW (l/sec)	0.0	0.0

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Set-Point as Per Calibration KIT	Calculated Flow (l/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)
0	0.00	4.00	0.1	4.02	0.10
A	21.68	10.56	21.7	10.60	0.04

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Calibrator	Electrical Multimeter	N/A
Manufacturer:	Khrone	Fluke	N/A
Model No:	GS8B	179	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ROSEMOUNT** ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay
Plant Name:	PS20
Site/Plant Address:	30 Woodland Dr, Wasaga Beach
	Pumping Station 20

Device Information	
Make:	Rosemount
Model:	8750
Serial No.:	0015868
Tag:	NA
Job Location:	PS20
Asset ID:	291506

Service Information	
Date:	September 12, 2023
Report No:	CO1476-2308-22
Job No:	CO1476-2308

Sensor Details	
Line size:	4 Inch
Flow Cal Tube No.:	0898404808929005
Mounting:	Remote

Flow Details	
Unit:	l/sec
Flow Range:	0 - 50 l/sec
Current Output:	4-20 mA
4 mA Set Point	0
20 mA Set Point	50

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (l)	339399	339401
FLOW (l/sec)	0.00	0.00

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point as Per Calibration KIT	Calculated Flow (f/sec)	Calculated O/P (mA)	UUT Display (f/sec)	UUT Measured Output (mA)	Deviation (f/sec)
0.00	0.00	4.00	0.00	4.01	0.00
3.00	3.00	5.60	2.99	5.58	-0.01
10.00	10.00	9.33	10.01	9.35	0.01
30.00	30.00	20.00	29.98	19.98	-0.02

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Calibrator	Electrical Multimeter	N/A
Manufacturer:	Rosemount	Fluke	N/A
Model No:	8714D	179	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 12, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - **ABB**
ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Dr, Wasaga Beach
Plant Name:	PS21		Pump Station 21

Device Information		Service Information	
Make:	ABB	Date:	October 30, 2023
Part No:	Watermaster	Report No:	CO1476-2308-23
Serial No.:	3K620000371743	Job No:	CO1476-2308
Tag:	NA		
Job Location:	PS21		

Sensor Details		Flow Details	
Line size:	12 inch	Unit:	l/sec
Mounting:	Remote	Flow Range:	0 - 150 l/sec
		Current Output:	4-20 mA
		4 mA Set Point	0
		20 mA Set Point	150

Inst. Reading	AS FOUND	AS LEFT
TOTALIZER (m3)	26704	26708
FLOW (l/sec)	0	34

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	Display Malfunctioning
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Test-Point	Flow Measured on ClampOn Calibrator (l/sec)	UUT Display (l/sec)	Deviation (l/sec)
1	23.79	24	0.58
2	24.92	26	0.79
3	22.71	24	0.89

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 2
Device Description:	Electrical Multimeter	Portable Doppler flow meter	N/A
Manufacturer:	Fluke	Greyline	N/A
Model No:	179	PDFM 5.1	N/A

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Tushar Patel	Stamp/Signature	
Printed Date:	October 30, 2023		

End of Report

Version: 19-12

Induscontrol Inc
3170 Ridgeway Drive, Unit #11
Mississauga, ON L5L 5R4

VERIFICATION REPORT - CHART RECORDER

Customer Name:	OCWA-Georgian Bay	Site/Plant Address:	30 Woodland Drive
Plant Name:	5005-Wasaga Beach WWTP		Wasaga Beach

Device Information		Service Information	
Make:	Bristol Babcock Chart recorder	Date:	September 11, 2023
Model:	4392	Report No:	CO1476-2308-24
Serial No.:	9312-26159	Job No:	CO1476-2308
Tag:	NA		
Job Location:	Chlorine Distribution		
Asset ID:	82035		

Inst. Reading	AS FOUND	AS LEFT
ppm	1.562	1.575

Channel Information	Channel 1	Channel 2	Channel 3
Process	cl2	NA	NA
Unit	ppm	NA	NA
Min. range	0	NA	NA
Max range	5	NA	NA

Maintenance Checklist			Remarks
Visual Inspection:	☑ OK	☐ NOT OK	
Electrical Inspection:	☑ OK	☐ NOT OK	
Sensor Installation:	☑ OK	☐ NOT OK	
Transmitter Installation:	☑ OK	☐ NOT OK	

Instrument Test Information and Results

Flow Input (%)	Calculated Flow (ppm)	Calculated O/P (mA)	UUT Display (ppm)	Measured Output (mA)	Deviation (ppm)
0.00	0.00	4.00	0.00	3.99	0.00
25.00	1.25	8.00	1.26	8.02	0.01
50.00	2.50	12.00	2.52	12.04	0.02
75.00	3.75	16.00	3.73	15.98	-0.02
100.00	5.00	20.00	5.03	20.03	0.03

Information of Tools used for Verification of the Instruments

Details	Tool/Kit 1	Tool/Kit 2	Tool/Kit 3
Device Description:	Electrical Multimeter	Calibrator	NA
Manufacturer:	Fluke	Extech	NA
Model No:	179	PRC30	NA

* Refer Calibration Tools Certificates submittal for more Information

Verification Test Result:	☑ Passed	☐ Fail	☐ Not Verified

Overall Remarks:	Measurement Works within Specification.

Service Technician :	Chetan Parekh	Stamp/Signature	
Printed Date:	September 11, 2023		

End of Report

REPORT NO : CO1254-2108-08

DTM Version: 3.25.00

Flowmeter Verification Certificate Transmitter

OCWA-Georgian Bay	PS-05
Customer	Plant
Order code	Tag Name
PROMAG 50 P DN80	1.0072 - 1.0072
Device type	K-Factor
7502E316000	0
Serial number	Zero point
V2.00.00	V1.04.00
Software Version Transmitter	Software Version I/O-Module
30.10.2023	13:50
Verification date	Verification time

Verification result Transmitter: Passed

Test item	Result	Applied Limits
Amplifier	Passed	Basis: 0.55 %
Current Output 1	Passed	0.05 mA
Pulse Output 1	Not tested	0 P
Test Sensor	Passed	

FieldCheck Details	**Simubox Details**
550911	8714684
Production number	Production number
1.07.08	1.00.01
Software Version	Software Version
04/2023	04/2023
Last Calibration Date	Last Calibration Date

30.10.2023		
Date	Operator's Sign	Inspector's Sign

Overall results:

The achieved test results show that the instrumment is completely functional, and the measuring results lie within +/- 1% of the original calibration. [1)]

The calibration of the Fieldcheck test system is fully traceable to national standards.

1) Prerequisite is an additional proof of electrode integrity with a high voltage test.

Endress+Hauser

People for Process Automation

FieldCheck - Result Tab Transmitter

Customer	**OCWA-Georgian Bay**	Plant	**PS-05**
Order code		Tag Name	
Device type	**PROMAG 50 P DN80**	K-Factor	**1.0072 - 1.0072**
Serial number	**7502E316000**	Zero point	**0**
Software Version Transmitter	**V2.00.00**	Software Version I/O-Module	**V1.04.00**
Verification date	**30.10.23**	Verification time	**13:50**

Verification Flow end value (100 %): 20.106 l/s
Flow speed 4.00 m/s

Passed / Failed	Test item	Simul. Signal	Limit Value	Deviation
	Test Transmitter			
✓	Amplifier	1.005 l/s (5%)	1.50 %	0.92 %
✓		2.011 l/s (10.0%)	1.00 %	0.32 %
✓		10.053 l/s (50.0%)	0.60 %	0.29 %
✓		20.106 l/s (100%)	0.55 %	0.23 %
✓	Current Output 1	4.000 mA (0%)	0.05 mA	0.002 mA
✓		4.800 mA (5%)	0.05 mA	0.002 mA
✓		5.600 mA (10.0%)	0.05 mA	-0.013 mA
✓		12.000 mA (50.0%)	0.05 mA	0.001 mA
✓		20.000 mA (100%)	0.05 mA	-0.002 mA
–	Pulse Output 1	---	---	---
		Start value	**Limits range**	**Measured value**
	Test Sensor			
✓	Coil Curr. Rise	4.200 ms	0.000..12.650 ms	5.402 ms
✓	Coil Curr. Stability		---	---
✓	Electrode Integrity	mV	0.0..300.001 mV	3.262 mV

Legend of symbols

✓	✗	–	?	!
Passed	Failed	not tested	not testable	Attention

FieldCheck: Parameters Transmitter

Customer	**OCWA-Georgian Bay**		Plant	**PS-05**
Order code			Tag Name	
Device type	**PROMAG 50 P DN80**		K-Factor	**1.0072 - 1.0072**
Serial number	**7502E316000**		Zero point	**0**
Software Version Transmitter	**V2.00.00**		Software Version I/O-Module	**V1.04.00**
Verification date	**30.10.2023**		Verification time	**13:50**

Curent Output	**Assign**	**Current Range**	**Value 0_4mA**	**Value 20 mA**		
Terminal 26/27	VOLUME FLOW	4-20 mA activ	0.0 l/s	30.00 l/s		
Pulse Output	**Assign**	**Pulse Value**	**Output signal**	**Pulse width**		
Terminal 24/25	VOLUME FLOW	1000.001 l/P	Passive/Negative	200.01 ms		

Actual System Ident. 131.0

2023 Annual Performance Report

Appendix D

Sludge Quality Analysis

Solids and Nutrients

Facility: WASAGA BEACH WASTEWATER TREATMENT FACILITY
Works: 5004
Period: 01/01/2023 to 12/01/2023

Facility Works Number: *1.20001862E8*
Facility Name: *WASAGA BEACH WASTEWATER TREATMENT FACILITY*
Facility Owner: *Municipality: Town of Wasaga Beach*
Facility Classification: *Class 3 Wastewater Treatment*
Receiver: *Nottawasaga River*
Service Population: *17537.0*
Total Design Capacity: ---
Period Being Reported: 01/01/2023 12/01/2023

Note: all parameters in this report will be derived from the Bslq Station

Month	Total Sludge Hauled (m3)	Avg. Total Solids (mg/L)	Avg. Volatile Solids (mg/L)	Avg. Total Phosphorus (mg/L)	Ammonia (mg/L)	Nitrate (mg/L)	Nitrite (mg/L)	TKN (mg/L)	Ammonia + Nitrate (mg/L)	Potassium (mg/L)
Site	**WASAGA BEACH WASTEWATER TREATMENT FACILITY**									
Station	**Bslq Station only**									
Parameter Short Name	**HauledVol**	**TS**	**VS**	**TP**	**NH3p_NH4p_N**	**NO3-N**	**NO2-N**	**TKN**	**calculation in report - no T/S**	**K**
T/s	**IH Month.Total**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**		**Lab Published Month Mean**
Jan		16,800.000	11,700.000	400.000	202.000	0.500	1.000	1,150.000	101.250	62.000
Feb		16,900.000	12,200.000	510.000	259.000	0.300	0.200	1,150.000	129.650	81.000
Mar		18,250.000	13,500.000	460.000	135.550	32.150	1.350	948.500	83.850	81.500
Apr	2,045.000	18,100.000	13,670.000	255.000	157.700	60.150	1.100	1,270.000	108.925	41.500
May	168.000	17,200.000	12,300.000	468.500	6.400	105.150	7.200	1,095.000	55.775	79.500
Jun		47,200.000	31,300.000	1,430.000	577.000	3.000	3.000	2,570.000	290.000	103.000
Jul		18,000.000	11,700.000	501.000	570.000	3.000	3.000	1,000.000	286.500	75.000
Aug	4,440.400	25,466.667	16,566.667	790.667	379.700	85.333	3.000	1,293.333	232.517	81.000
Sep	2,601.000	55,000.000	33,800.000	2,790.000	902.000	3.000	3.000	3,270.000	452.500	153.000
Oct	3,018.000	51,800.000	31,600.000	1,840.000	940.000	3.000	3.000	2,810.000	471.500	114.000
Nov		51,300.000	30,700.000	2,000.000	290.000	20.000	270.000	1,540.000	155.000	124.000
Dec		51,800.000	30,100.000	2,360.000	381.000	32.000	220.000	1,990.000	206.500	158.000
Average	2,454.480	32,318.056	20,761.389	1,150.431	400.029	28.965	42.988	1,673.903	214.497	96.125
Total	12,272.400	387,816.667	249,136.667	13,805.167	4,800.350	347.583	515.850	20,086.833	2,573.967	1,153.500

Ontario Clean Water Agency
Biosolids Quality Report - Liquid
Digestor Type: AEROBIC
Metals and Criteria

Facility: WASAGA BEACH WASTEWATER TREATMENT FACILITY
Works: 5004
Period: 01/01/2023 to 12/01/2023

Note: all parameters in this report will be derived from the Bslq Station

Month	Arsenic (mg/L)	Cadmium (mg/L)	Cobalt (mg/L)	Chromium (mg/L)	Copper (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Lead (mg/L)	Selenium (mg/L)	Zinc (mg/L)
Site	**WASAGA BEACH WASTEWATER TREATMENT FACILITY**										
Station	**Bslq Station only**										
Parameter Short Name	**As**	**Cd**	**Co**	**Cr**	**Cu**	**Hg**	**Mo**	**Ni**	**Pb**	**Se**	**Zn**
T/s	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**	**Lab Published Month Mean**
Jan	0.100	0.009	0.020	0.120	3.400	0.006	0.070	0.120	0.100	0.100	7.000
Feb	0.100	0.009	0.020	0.130	4.000	0.007	0.090	0.140	0.100	0.100	7.000
Mar	0.100	0.009	0.025	0.145	3.600	0.005	0.070	0.140	0.100	0.100	6.500
Apr	0.100	0.009	0.020	0.100	2.800	0.005	0.050	0.105	0.300	0.100	4.500
May	0.100	0.008	0.020	0.145	3.150	0.005	0.075	0.135	0.100	0.100	5.500
Jun	0.100	0.026	0.060	0.410	9.100	0.017	0.220	0.340	0.300	0.200	17.000
Jul	0.100	0.009	0.030	0.140	3.400	0.004	0.070	0.130	0.100	0.100	6.000
Aug	0.100	0.012	0.037	0.240	5.400	0.009	0.113	0.197	0.133	0.100	9.000
Sep	0.100	0.048	0.110	0.850	18.000	0.031	0.350	0.650	0.500	0.300	33.000
Oct	0.100	0.038	0.070	0.500	12.000	0.021	0.260	0.410	0.300	0.200	21.000
Nov	0.100	0.045	0.090	0.880	14.000	0.026	0.350	0.680	0.400	0.200	25.000
Dec	0.100	0.048	0.120	1.300	17.000	0.039	0.450	0.970	0.500	0.300	32.000
Average	0.100	0.022	0.052	0.413	7.988	0.015	0.181	0.335	0.244	0.158	14.458
Max. Permissible Metal Concentrations (mg/kg of	170.000	34.000	340.000	2,800.000	1,700.000	11.000	94.000	420.000	1,100.000	34.000	4,200.000
Metal Concentrations in Sludge (mg/kg)	3.094	0.693	1.603	12.790	247.153	0.450	5.591	10.357	7.564	4.899	447.376

Ontario Clean Water Agency
Biosolids Quality Report - Liquid - Based on Last 4 Samples
Digestor Type: AEROBIC

Facility: WASAGA BEACH WASTEWATER TREATMENT FACILITY
Works: 5004
Period: 01/01/2023 to 12/01/2023

Note: all parameters in this report will be derived from the Bslq Station

Parameter Short Name	Time Series	09/12/2023	10/03/2023	11/07/2023	12/05/2023	Average	Metal Concentrations in Sludge (mg/kg):	Max. Permissible Metal Concentrations (mg/kg of Solids):
As (mg/L)	Lab Published	0.100	0.100	0.100	0.100	0.100	1.906	170
Cd (mg/L)	Lab Published	0.048	0.038	0.045	0.048	0.045	0.858	34
Co (mg/L)	Lab Published	0.110	0.070	0.090	0.120	0.097	1.848	340
Cr (mg/L)	Lab Published	0.850	0.500	0.880	1.300	0.883	16.827	2800
Cu (mg/L)	Lab Published	18.000	12.000	14.000	17.000	15.250	290.615	1700
Hg (mg/L)	Lab Published	0.031	0.021	0.026	0.039	0.029	0.553	11
Mo (mg/L)	Lab Published	0.350	0.260	0.350	0.450	0.353	6.727	94
Ni (mg/L)	Lab Published	0.650	0.410	0.680	0.970	0.678	12.920	420
Pb (mg/L)	Lab Published	0.500	0.300	0.400	0.500	0.425	8.099	1100
Se (mg/L)	Lab Published	0.300	0.200	0.200	0.300	0.250	4.764	34
Zn (mg/L)	Lab Published	33.000	21.000	25.000	32.000	27.750	528.823	4200
E. Coli: Dry Wt (cfu/g)	Lab Published	7,636.000	193.000	195.000	193.000	485.293	E.Coli average is the GMD	
TS (mg/L)	Lab Published	55,000.000	51,800.000	51,300.000	51,800.000	52,475.000		
VS (mg/L)	Lab Published	33,800.000	31,600.000	30,700.000	30,100.000	31,550.000		
TP (mg/L)	Lab Published	2,790.000	1,840.000	2,000.000	2,360.000	2,247.500		
NO2-N (mg/L)	Lab Published	3.000	3.000	270.000	220.000	124.000		
TKN (mg/L)	Lab Published	3,270.000	2,810.000	1,540.000	1,990.000	2,402.500		
K (mg/L)	Lab Published	153.000	114.000	124.000	158.000	137.250		
NH3p_NH4p_N (mg/L)	Lab Published	902.000	940.000	290.000	381.000	628.250		
NO3-N (mg/L)	Lab Published	3.000	3.000	20.000	32.000	14.500		

ROHES
REGION OF HURONIA
Environmental Services (2013) Ltd.

Wasaga Beach WWTP Report

Sun, 01 Jan 2023 To Sun, 31 Dec 2023

Phone: 705-424-9799
Toll Free: 800-268-6060
Fax: 705-424-6075
info@regionofhuronia.com

Deliveries From Wasaga Beach WWTP To Farm Fields								
Delivered	**Ticket**	**NASM**	**Field**	**Drvr**	**Trck**	**Trlr**	**#Loads**	**Volume In M^3**
19 Apr,2023	76871	24891	Lamers-Field:2	1000	T440	TT017	3	126.00
19 Apr,2023	77379	24891	Lamers-Field:2	127	T011	TT049	3	126.00
19 Apr,2023	76697	24891	Lamers-Field:2	61	T082	TT089	2	84.00
19 Apr,2023	76698	24891	Lamers-Field:2	997	TST	TT063	2	100.00
19 Apr,2023	76699	24891	Lamers-Field:2	997	TST	TT064	1	50.00
19 Apr,2023	76501	24891	Lamers-Field:3	997	TST	TT064	3	150.00
19 Apr,2023	76767	24891	Lamers-Field:3	997	TST	TT063	3	150.00
19 Apr,2023	76870	24891	Lamers-Field:3	1000	T440	TT017	2	84.00
19 Apr,2023	77378	24891	Lamers-Field:3	127	T011	TT049	2	84.00
19 Apr,2023	78200	24891	Lamers-Field:3	61	T082	TT089	3	126.00
19 Apr,2023	78885	24891	Lamers-Field:3	304	T080	TT080	2	84.00
20 Apr,2023	77863	24891	Lamers-Field:1	997	TST	TT063	2	100.00
20 Apr,2023	78718	24891	Lamers-Field:1	270	T081	TT079	2	90.00
20 Apr,2023	78941	24891	Lamers-Field:1	300	T071	TT084	1	42.00
20 Apr,2023	78942	24891	Lamers-Field:1	997	TST	TT024	2	84.00
20 Apr,2023	77862	24891	Lamers-Field:2	997	TST	TT063	3	150.00
20 Apr,2023	78717	24891	Lamers-Field:2	270	T081	TT079	3	135.00
20 Apr,2023	76768	24891	Lamers-Field:2	997	TST	TT024	3	126.00
21 Apr,2023	78203	24891	Lamers-Field:1	61	T082	TT089	4	168.00
21 Apr,2023	76769	24891	Lamers-Field:1	997	TST	TT024	5	210.00
21 Apr,2023	76873	24891	Lamers-Field:1	1000	T440	TT017	4	168.00
21 Apr,2023	77861	24891	Lamers-Field:1	997	TST	TT064	4	200.00
21 Apr,2023	78719	24891	Lamers-Field:1	270	T081	TT079	3	135.00
						Totals for April:	**62**	**2,772.00**
12 May,2023	76885	60173	Grain Bins-Field:1	1000	T440	TT017	4	168.00
12 May,2023	78731	60173	Grain Bins-Field:1	270	T081	TT079	4	180.00
12 May,2023	78912	60173	Grain Bins-Field:1	304	T080	TT080	4	168.00
12 May,2023	79064	60173	Grain Bins-Field:1	127	T060	TT049	4	168.00
12 May,2023	78217	60173	Grain Bins-Field:1	61	T082	TT089	2	84.00
12 May,2023	80991	60173	Grain Bins-Field:1	317	T011	TT022	1	36.40
13 May,2023	80992	60173	Grain Bins-Field:1	317	T011	TT022	3	109.20
13 May,2023	77761	60173	Grain Bins-Field:1	105	T079	TT053	2	72.80
13 May,2023	78914	60173	Grain Bins-Field:1	304	T080	TT080	4	168.00
13 May,2023	78732	60173	Grain Bins-Field:1	270	T081	TT079	3	135.00
13 May,2023	76886	60173	Grain Bins-Field:1	1000	T440	TT017	4	168.00
15 May,2023	76887	60173	Grain Bins-Field:1	1000	T440	TT017	6	252.00
15 May,2023	78850	60173	Grain Bins-Field:1	300	T071	TT084	1	42.00
15 May,2023	78915	60173	Grain Bins-Field:1	304	T080	TT080	6	252.00
15 May,2023	79065	60173	Grain Bins-Field:1	127	T060	TT049	6	252.00
15 May,2023	78220	60173	Grain Bins-Field:1	61	T082	TT089	5	210.00
16 May,2023	80994	60173	Grain Bins-Field:1	317	T011	TT022	1	36.40
16 May,2023	79066	60173	Grain Bins-Field:1	127	T060	TT049	5	210.00
16 May,2023	78916	60173	Grain Bins-Field:1	304	T080	TT080	6	252.00
16 May,2023	78853	60173	Grain Bins-Field:1	300	T071	TT084	5	210.00
16 May,2023	77557	60173	Grain Bins-Field:1	323	T059	TT046	5	182.00
16 May,2023	77684	60173	Grain Bins-Field:1	61	T082	TT089	6	252.00
16 May,2023	76888	60173	Grain Bins-Field:1	1000	T440	TT017	5	210.00
17 May,2023	76889	60173	Grain Bins-Field:1	1000	T440	TT017	4	168.00
17 May,2023	77685	60173	Grain Bins-Field:1	61	T082	TT089	5	210.00
17 May,2023	77558	60173	Grain Bins-Field:1	323	T059	TT046	5	182.00

Deliveries From Wasaga Beach WWTP To Farm Fields								
Delivered	**Ticket**	**NASM**	**Field**	**Drvr**	**Trck**	**Trlr**	**#Loads**	**Volume In M^3**
17 May,2023	78854	60173	Grain Bins-Field:1	300	T071	TT084	5	210.00
17 May,2023	78917	60173	Grain Bins-Field:1	304	T080	TT080	4	168.00
17 May,2023	79067	60173	Grain Bins-Field:1	127	T060	TT049	3	126.00
17 May,2023	78299	60173	Grain Bins-Field:1	273	T072	TT092	1	36.40
19 May,2023	77688	24507	Phil Desroches-Field:F1	61	T082	TT089	1	42.00
19 May,2023	78859	24507	Phil Desroches-Field:F1	300	T071	TT084	1	42.00
19 May,2023	78920	24507	Phil Desroches-Field:F1	304	T080	TT080	1	42.00
19 May,2023	80999	24507	Phil Desroches-Field:F1	317	T011	TT024	1	42.00
						Totals for May:	**123**	**5,086.20**
22 Aug,2023	76410	24112	Draper-Field:1	997	TST	TT063	2	100.00
22 Aug,2023	76784	24112	Draper-Field:1	997	TST	TT064	3	150.00
22 Aug,2023	78330	24112	Draper-Field:1	273	T072	TT092	1	36.40
22 Aug,2023	79199	24112	Draper-Field:1	270	T081	TT079	3	135.00
22 Aug,2023	79257	24112	Draper-Field:1	127	T060	TT049	1	42.00
22 Aug,2023	79575	24112	Draper-Field:1	61	T082	TT089	2	84.00
24 Aug,2023	79580	24112	Draper-Field:1	61	T082	TT089	5	210.00
24 Aug,2023	80959	24112	Draper-Field:1	1000	T440	TT017	4	168.00
24 Aug,2023	79781	24112	Draper-Field:1	300	T071	TT084	4	168.00
24 Aug,2023	79264	24112	Draper-Field:1	127	T060	TT049	1	42.00
24 Aug,2023	79687	24112	Draper-Field:1	304	T080	TT080	4	168.00
24 Aug,2023	79202	24112	Draper-Field:1	270	T081	TT079	1	45.00
24 Aug,2023	77864	24112	Draper-Field:1	997	TST	TT064	1	50.00
24 Aug,2023	76412	24112	Draper-Field:1	997	TST	TT063	1	50.00
25 Aug,2023	79205	24112	Draper-Field:1	270	T081	TT079	2	90.00
25 Aug,2023	79581	24112	Draper-Field:1	61	T082	TT089	5	210.00
25 Aug,2023	79783	24112	Draper-Field:1	300	T071	TT084	5	210.00
25 Aug,2023	79690	24112	Draper-Field:1	304	T080	TT080	5	210.00
25 Aug,2023	80960	24112	Draper-Field:1	1000	T440	TT017	5	210.00
28 Aug,2023	80962	24112	Draper-Field:1	1000	T440	TT017	4	168.00
28 Aug,2023	79692	24112	Draper-Field:1	304	T080	TT080	4	168.00
28 Aug,2023	79583	24112	Draper-Field:1	61	T082	TT089	6	252.00
28 Aug,2023	79269	24112	Draper-Field:1	127	T060	TT049	5	210.00
29 Aug,2023	79585	24112	Draper-Field:1	61	T082	TT089	5	210.00
29 Aug,2023	79694	24112	Draper-Field:1	304	T080	TT080	5	210.00
29 Aug,2023	79786	24112	Draper-Field:1	300	T071	TT084	4	168.00
29 Aug,2023	80966	24112	Draper-Field:1	1000	T440	TT017	5	210.00
29 Aug,2023	79208	24112	Draper-Field:1	270	T081	TT079	2	90.00
31 Aug,2023	79515	24303	Martin-Field:1	105	T079	TT053	1	36.40
31 Aug,2023	79590	24303	Martin-Field:1	61	T082	TT089	3	126.00
31 Aug,2023	79791	24303	Martin-Field:1	300	T071	TT084	2	84.00
31 Aug,2023	80972	24303	Martin-Field:1	1000	T440	TT017	3	126.00
						Totals for August:	**104**	**4,436.80**
01 Sep,2023	80974	24303	Martin-Field:1	1000	T440	TT017	3	126.00
01 Sep,2023	79592	24303	Martin-Field:1	61	T082	TT089	3	126.00
01 Sep,2023	77830	24303	Martin-Field:1	997	TST	TT064	3	150.00
05 Sep,2023	77833	24303	Martin-Field:1	997	TST	TT064	2	100.00
05 Sep,2023	79594	24303	Martin-Field:1	61	T082	TT089	5	210.00
05 Sep,2023	79797	24303	Martin-Field:1	300	T071	TT084	4	168.00
05 Sep,2023	79705	24303	Martin-Field:1	304	T080	TT080	2	84.00
05 Sep,2023	76423	24303	Martin-Field:1	997	TST	TT063	2	100.00
05 Sep,2023	80976	24303	Martin-Field:1	1000	T440	TT017	4	168.00
06 Sep,2023	79700	24303	Martin-Field:1	304	T080	TT080	1	42.00
06 Sep,2023	79798	24303	Martin-Field:1	300	T071	TT084	5	210.00
06 Sep,2023	80186	24303	Martin-Field:1	323	T059	TT018	5	160.00
06 Sep,2023	80978	24303	Martin-Field:1	1000	T440	TT017	5	210.00

Deliveries From Wasaga Beach WWTP To Farm Fields								
Delivered	**Ticket**	**NASM**	**Field**	**Drvr**	**Trck**	**Trlr**	**#Loads**	**Volume In M^3**
06 Sep,2023	77835	24303	Martin-Field:1	997	TST	TT064	2	100.00
06 Sep,2023	79217	24303	Martin-Field:1	270	T081	TT079	5	225.00
06 Sep,2023	79285	24303	Martin-Field:1	127	T060	TT049	1	42.00
06 Sep,2023	79597	24303	Martin-Field:1	61	T082	TT089	2	84.00
07 Sep,2023	79599	24303	Martin-Field:1	61	T082	TT089	2	84.00
07 Sep,2023	80980	24303	Martin-Field:1	1000	T440	TT017	2	84.00
07 Sep,2023	79712	24303	Martin-Field:1	304	T080	TT080	2	84.00
07 Sep,2023	79286	24303	Martin-Field:1	127	T060	TT049	2	84.00
						Totals for September:	**62**	**2,641.00**
16 Oct,2023	79846	23727	Ververs-Field:1	300	T071	TT084	3	126.00
16 Oct,2023	79928	23727	Ververs-Field:1	270	T081	TT018	2	64.00
16 Oct,2023	78433	23727	Ververs-Field:1	1000	T440	TT017	4	168.00
16 Oct,2023	78512	23727	Ververs-Field:1	61	T082	TT089	4	168.00
16 Oct,2023	80055	23727	Ververs-Field:1	127	T060	TT049	4	168.00
17 Oct,2023	80057	23727	Ververs-Field:1	127	T060	TT049	5	210.00
17 Oct,2023	78514	23727	Ververs-Field:1	61	T082	TT089	6	252.00
17 Oct,2023	78573	23727	Ververs-Field:1	304	T080	TT080	5	210.00
17 Oct,2023	78435	23727	Ververs-Field:1	1000	T440	TT017	6	252.00
18 Oct,2023	78437	23727	Ververs-Field:1	1000	T440	TT017	1	42.00
18 Oct,2023	78575	23727	Ververs-Field:1	304	T080	TT080	6	252.00
18 Oct,2023	78517	23727	Ververs-Field:1	61	T082	TT089	1	42.00
18 Oct,2023	80059	23727	Ververs-Field:1	127	T060	TT049	4	168.00
23 Oct,2023	80064	23727	Ververs-Field:1	127	T060	TT049	4	168.00
23 Oct,2023	80323	23727	Ververs-Field:1	304	T080	TT080	2	84.00
23 Oct,2023	78442	23727	Ververs-Field:1	1000	T440	TT017	2	84.00
23 Oct,2023	79991	23727	Ververs-Field:1	105	T079	TT053	1	36.40
23 Oct,2023	79854	23727	Ververs-Field:1	300	T071	TT084	1	42.00
24 Oct,2023	79858	23893	Storage-Field:F1	300	T071	TT084	3	126.00
24 Oct,2023	80067	23893	Storage-Field:F1	127	T060	TT049	4	168.00
24 Oct,2023	80328	23893	Storage-Field:F1	304	T080	TT080	3	126.00
24 Oct,2023	78443	23893	Storage-Field:F1	1000	T440	TT017	3	126.00
25 Oct,2023	78446	23893	Storage-Field:F1	1000	T440	TT017	4	168.00
25 Oct,2023	80329	23893	Storage-Field:F1	304	T080	TT080	5	210.00
25 Oct,2023	80068	23893	Storage-Field:F1	127	T060	TT049	4	168.00
25 Oct,2023	79863	23893	Storage-Field:F1	300	T071	TT084	2	84.00
26 Oct,2023	80071	23893	Storage-Field:F1	127	T060	TT049	3	126.00
26 Oct,2023	80332	23893	Storage-Field:F1	304	T080	TT080	4	168.00
26 Oct,2023	78449	23893	Storage-Field:F1	1000	T440	TT017	3	126.00
						Totals To October:	**99**	**4,132.40**
						Totals To NASM #23727, Farm 'Ververs', Field '1':	**61**	**2,536.40**
						Totals To NASM #23893, Farm 'Storage', Field 'F1':	**38**	**1,596.00**
						Totals To NASM #24112, Farm 'Draper', Field '1':	**95**	**4,064.40**
						Totals To NASM #24303, Farm 'Martin', Field '1':	**71**	**3,013.40**
						Totals To NASM #24507, Farm 'Phil Desroches', Field 'F1':	**4**	**168.00**
						Totals To NASM #24891, Farm 'Lamers', Field '1':	**27**	**1,197.00**
						Totals To NASM #24891, Farm 'Lamers', Field '2':	**20**	**897.00**
						Totals To NASM #24891, Farm 'Lamers', Field '3':	**15**	**678.00**
						Totals To NASM #60173, Farm 'Grain Bins', Field '1':	**119**	**4,918.20**
						Grand Totals:	**450**	**19,068.40**

2023 Annual Performance Report

Appendix E

Records of Bypass, Overflow and Spill Events

Ontario Clean Water Agency
Environmental Incident Report

Facility ID: 5004 EIncidentReport

Facility Name: Wasaga Beach Wastewater Treatment Plant

Address: 30 Woodland Drive

City: Wasaga Beach

Province: Ontario

Postal Code: L9Z2V4

Date of Occurrence: 01/10/2023

Time of Occurrence: 02:12:00 PM

Nature of the Incident

● Level 1 Contingency ○ Level 2 Contingency ○ Level 3 Contingency *Click here To Show the Definitions*

Incident affected: ☐ Air ☒ Water ☐ Land ☐ Nothing

What was discharged or emitted?

☐ Chlorine
☐ Sodium Hypochlorite
☐ Calcium Chloride
☐ Aluminum Compounds (Specify in Other)
☐ Arsenic
☐ Fluoride
☐ Oil/Diesel/Gas
☒ Untreated or partly treated sewage
☐ Odours
☐ Water
☐ Iron Coagulants

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 18000 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

During planned clarifier maintenance activities of placing clarifiers 2 and 3 off-line and bringing clarifiers 1 and 4 online, a momentary high turbidity event caused of a bypass of the disk filter inlet box. The operator noticed that high flow and turbidity of the secondary effluent and inspected the inlet building. The inlet channel and filter box was high, resulting in a brief bypass event of the dick filters at approximately 1412 hrs.

Where did the release go?:

Bypassed Disk Filters into Final UV Disinfection and then to Final Effluent Outfall (Nottawasga River)

If it entered a watercourse: ● Yes ○ No

If it went off site: ● Yes ○ No

Duration of the release?: 8 minutes

Is the release now stopped?: ● Yes ○ No

Was there any damage? (i.e. property and/or environmental): ○ Yes ○ No ● N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

Responding operations staff opened the sand filter inlet valves several turns, turned off the RAS 1 pump and increased RAS 3 flow. The equalization tank gate was dropped to divert raw flow. Operations staff began the manual backwash stations on both the disk filters and lanced the sand filter beds. Inlet channel levels began to drop and the bypass was stopped at 1420 hrs (approximately 8 minutes of bypass).

What actions have been taken to remediate the incident?

Operations staff performed further air lift maintenance, the disk filters were returned to auto, and staff continued to air lance the filters. Secondary effluent that had bypassed the filters (approximately 18m3) was still UV disinfected and samples were collected as per the ECA at 1444hrs. Flow through clarifiers 1 and 4 were stabilized, filters were checked and are now operating normally, Raw influent flow has been returned to normal operating conditions. Future facility optimization activities and maintenance activities are to continue over the next several days. Verbal notification was provide to SAC and the MOH-SMDHU. Due to the rarity of this event, it is not expected to be an ongoing issue.

Was this a reportable spill or discharge?: ● Yes ○ No

If "Yes", at what time was it first reported to the MOE?

MOE SAC- January 10th, 2023 at 1510 hrs

Was it reported to the MOE district office?: ● Yes ○ No

If "Yes", which office/location and who was the contact?: MECP- Barrie District Office- Local Inspector: Darren Haines

Was it reported to MOE SAC?: ● Yes ○ No

If "Yes", at what time was it reported to MOE SAC?:

MOE SAC- January 10th, 2023 at 1510 hrs

Was it reported to Municipality?: ● Yes ○ No

If "Yes", at what time was it reported to Municipality?:

January 10th, 2023 at 1625 hrs via email

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ● No

If "Yes", was it received?: ○ Yes ○ No

Was external emergency assistance requested?: ○ Yes ● No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvment?: ○ Yes ● No

If "Yes", who?: _____

Was the public affected?: ● Yes ○ No

If "Yes", how?: As per the Wasaga Beach WPCP ECA: Downstream Notification must be provided to any potential users: Public Notification of Spills, Bypass and Overflow Downstream User Notification Form was also sent for posting on their Municipal Website on Jnauary 10th, 2023 at 1625hrs.

Updated By: Kristen Tilotta 01/11/2023 10:06:10 AM

Comments:

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SAC Reference Number: 1-2G4TCU
Facility: Wasaga Beach WPCP
Works Number: 120001862
Bypass Location: Bypassed Disk Filters- Disk Filter Inlet Channel
Bypass Date & Time: January 10th, 2023 from 1412 to 1420 hrs
Duration: 8 Minutes
Bypass Contents: Partially Treated, UV Disinfected Secondary Effluent
Approximate Volume: 18 m3

Incident Description
During planned clarifier maintenance activities of placing clarifiers 2 and 3
off-line and bringing clarifiers 1 and 4 online, a momentary high turbidity
event caused of a bypass of the disk filter inlet box. The operator noticed
that high flow and turbidity of the secondary effluent and inspected the inlet
building. The inlet channel and filter box was high, resulting in a brief
bypass event of the dick filters at approximately 1412 hrs.

Actions Taken to Control Incident
Responding operations staff opened the sand filter inlet valves several turns,
turned off the RAS 1 pump and increased RAS 3 flow. The equalization tank gate
was dropped to divert raw flow. Operations staff began the manual backwash
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stations on both the disk filters and lanced the sand filter beds. Inlet channel levels began to drop and the bypass was stopped at 1420 hrs (approximately 8 minutes of bypass).

Corrective Actions
Operations staff performed further air lift maintenance, the disk filters were returned to auto, and staff continued to air lance the filters. Secondary effluent that had bypassed the filters (approximately 18m3) was still UV disinfected and samples were collected as per the ECA at 1444hrs. Flow through clarifiers 1 and 4 were stabilized, filters were checked and are now operating normally, Raw influent flow has been returned to normal operating conditions. Future facility optimization activities and maintenance activities are to continue over the next several days. Verbal notification was provide to SAC and the MOH- SMDHU. Due to the rarity of this event, it is not expected to be an ongoing issue.

Reporting
- January 10th, 2023 at 1510 hrs: Operator Colin Kasperavicius verbally notified the Spills Action Centre of the bypass incident. Spoke with E.I. Anastazia Jagdeo, Incident Report 1-2G4TCU was generated. No further actions advised.
- January 10th, 2023 at 1528 hrs: Operator Colin Kasperavicius verbally notified the Ministry of Health- Simcoe Muskoka District Health Unit of Bypass incident. Spoke with PHI Steve Borgh. No further actions advised.
- January 10th, 2023: Operator Colin Kasperavicius verbally notified PCT (Kristen Tilotta) at 1520 hrs and Acting-SOM (Ian Kemp) at 1525 hrs.
- January 10th, 2023 at 1625 hrs: PCT, Kristen Tilotta notified The Town of Wasaga Beach of the Bypass Incident via email and the Public Notification of Spills, Bypass and Overflow Downstream User Notification Form was also sent for posting on their Municipal Website.
- January 11th, 2023 at 0949 hrs: PCT Kristen Tilotta notified local MECP Inspector Darren Haines of the incident. Left voicemail and instructed to call back if there were any further questions.
- There is a duty to notify and report any unauthorized deposits as per the Fisheries Act, so Environment Canada is copied on this written notification.

Ontario Clean Water Agency
Environmental Incident Report

Facility ID: 5004 EIncidentReport

Facility Name: Wasaga Beach Wastewater Treatment Plant

Address: 30 Woodland Drive

City: Wasaga Beach

Province: Ontario

Postal Code: L9Z2V4

Date of Occurrence: 02/14/2023

Time of Occurrence: 10:45:00 AM

Nature of the Incident

● Level 1 Contingency ○ Level 2 Contingency ○ Level 3 Contingency *Click here To Show the Definitions*

Incident affected: ☐ Air ☒ Water ☐ Land ☐ Nothing

What was discharged or emitted?

☐ Chlorine
☐ Sodium Hypochlorite
☐ Calcium Chloride
☐ Aluminum Compounds (Specify in Other)
☐ Arsenic
☐ Fluoride
☐ Oil/Diesel/Gas
☒ Untreated or partly treated sewage
☐ Odours
☐ Water
☐ Iron Coagulants

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 1000 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

During planned maintenance activities, contractors were on site for disk filter 1 drain plug valve replacement. Disk filter 1 inlet valve was closed and placed out of service. After maintenance was completed, in the process of putting disk filter 1 back online, the water was too low for the backwash pumps to run causing the filters to plug and for 5 minutes the effluent to intermittently overflow the filters into the UV channel. >1 m3 of secondary effluent bypassed the disk filters channel and overflowed into the UV disinfection channel.

Where did the release go?:

Final effluent outfall- Nottawasaga River

If it entered a watercourse: ● Yes ○ No

If it went off site: ● Yes ○ No

Duration of the release?: 5 mins

Is the release now stopped?: ● Yes ○ No

Was there any damage? (i.e. property and/or environmental): ○ Yes ● No ○ N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

Responding operations staff used potable water to fill the effluent box to reach the backwash pump inlet. Operators staff manually backwashed and opened the disk filter 1 inlet valves by 1.5 turns. Intermittent bypass was stopped at 1050 hrs.

What actions have been taken to remediate the incident?

Operations staff continued to monitor the disk filter conditions until they began operating normally again. Returned disk filter 1 to auto once normal conditions stabilized. Secondary effluent that had bypassed the filters was still UV disinfected and samples were collected as per the ECA. Verbal notification was provide to SAC and the MOH- SMDHU (see reporting communication below). Due to the rarity of this event, it is not expected to be an ongoing issue.

Was this a reportable spill or discharge?: ● Yes ○ No

If "Yes", at what time was it first reported to the MOE?

MOE SAC: January 14, 2023 at 1244 hrs

Was it reported to the MOE district office?: ● Yes ○ No

If "Yes", which office/location and who was the contact?: Barrie District Office- MECP local inspector Darren Haines

Was it reported to MOE SAC?: ● Yes ○ No

If "Yes", at what time was it reported to MOE SAC?:

MOE SAC: January 14, 2023 at 1244 hrs

Was it reported to Municipality?: ○ Yes ○ No

If "Yes", at what time was it reported to Municipality?:

- January 14, 2023 at 1348 hrs: notification to The Town of Wasaga Beach of the Bypass Incident via email and the Public Notification of Spills, Bypass and Overflow Downstream User Notification Form was also sent for posting on their Municipal Website.

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ● No

If "Yes", was it received?: ○ Yes ○ No

Was external emergency assistance requested?: ○ Yes ● No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvment?: ○ Yes ● No

If "Yes", who?: _____

Was the public affected?: ○ Yes ● No

If "Yes", how?: No but notification to The Town of Wasaga Beach of the Bypass Incident via email and the Public Notification of Spills, Bypass and Overflow Downstream User Notification Form was also sent for posting on their Municipal Website.

Updated By: Kristen Tilotta 02/14/2023 03:26:00 PM

Comments:

SAC Reference Number: 1-2JO37G
Facility: Wasaga Beach WPCP
Works Number: 120001862
Bypass Location: Bypassed Disk Filters
Bypass Date & Time: February 14, 2023 from 1045 to 1050 hrs
Duration: 5 Minutes (intermittently)
Bypass Contents: Partially Treated, UV Disinfected Secondary Effluent
Approximate Volume: >1 m3

Incident Description
During planned maintenance activities, contractors were on site for disk filter 1 drain plug valve replacement. Disk filter 1 inlet valve was closed and placed out of service. After maintenance was completed, in the process of putting disk filter 1 back online, the water was too low for the backwash pumps to run causing the filters to plug and for 5 minutes the effluent to intermittently overflow the filters into the UV channel. >1 m3 of secondary effluent bypassed the disk filters channel and overflowed into the UV disinfection channel.

Actions Taken to Control Incident
Responding operations staff used potable water to fill the effluent box to

reach the backwash pump inlet. Operators staff manually backwashed and opened the disk filter 1 inlet valves by 1.5 turns. Intermittent bypass was stopped at 1050 hrs.

Corrective Actions
Operations staff continued to monitor the disk filter conditions until they began operating normally again. Returned disk filter 1 to auto once normal conditions stabilized. Secondary effluent that had bypassed the filters was still UV disinfected and samples were collected as per the ECA. Verbal notification was provide to SAC and the MOH- SMDHU (see reporting communication below). Due to the rarity of this event, it is not expected to be an ongoing issue.

Reporting
- January 14, 2023 at 1244 hrs: PCT Kristen Tilotta verbally notified the Spills Action Centre of the bypass incident. Spoke with E.I. Dillon, Incident Report 1-2JO37G was generated. No further actions advised.
- January 14, 2023 at 1259 hrs: PCT Kristen Tilotta verbally notified the Ministry of Health- Simcoe Muskoka District Health Unit of Bypass incident. Spoke with PHI Megan McCabe. No further actions advised.
- January 14, 2023 at 1305 hrs: PCT Kristen Tilotta notified local MECP Inspector Darren Haines of the incident. No further actions advised.
- January 14, 2023 at 1335 hrs: Environmental Inspector (Dillon) from SAC called PCT Kristen Tilotta back requesting some further information. Additional information provided and no further actions were advised.
- January 14, 2023 at 1337 hrs: PHI (Steve Borgh) from the SMDHU called PCT Kristen Tilotta back requesting some further information. Additional information provided and no further actions were advised.
- January 14, 2023 at 1348 hrs: PCT Kristen Tilotta notified The Town of Wasaga Beach of the Bypass Incident via email and the Public Notification of Spills, Bypass and Overflow Downstream User Notification Form was also sent for posting on their Municipal Website.
- There is a duty to notify and report any unauthorized deposits as per the Fisheries Act, so Environment Canada will be copied on the written notification.

Ontario Clean Water Agency
Environmental Incident Report

Facility ID: 5004 EIncidentReport

Facility Name: Wasaga Beach Wastewater Treatment Plant

Address: 30 Woodland Drive

City: Wasaga Beach

Province: Ontario

Postal Code: L9Z2V4

Date of Occurrence: 03/07/2023

Time of Occurrence: 02:42:00 PM

Nature of the Incident

● Level 1 Contingency ○ Level 2 Contingency ○ Level 3 Contingency *Click here To Show the Definitions*

Incident affected: ☐ Air ☒ Water ☐ Land ☐ Nothing

What was discharged or emitted?

☐ Chlorine
☐ Sodium Hypochlorite
☐ Calcium Chloride
☐ Aluminum Compounds (Specify in Other)
☐ Arsenic
☐ Fluoride
☐ Oil/Diesel/Gas
☐ Untreated or partly treated sewage
☐ Odours
☐ Water
☐ Iron Coagulants

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 8000 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

On March 7, 2023 at 1442 hours while operations staff were attempting to test the operational functionality of the chemical cleaning system, a chemical cleaning cycle was initiated during a backwash cycle. The cleaning cycle shutdown the backwash pumps and disk filter rotation, causing a very brief bypass event (less than one minute)

Where did the release go?:

Nottawasaga River

If it entered a watercourse: ● Yes ○ No

If it went off site: ● Yes ○ No

Duration of the release?: 1 minute

Is the release now stopped?: ● Yes ○ No

Was there any damage? (i.e. property and/or environmental): ○ Yes ○ No ● N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

Responding operations staff was already present when the alarm sounded and manual backwashing was immediately initiated. Influent levels dropped below bypass overflow point in less than one minute.

What actions have been taken to remediate the incident?

No further corrective actions required as indicated by the MOH, SAC or the MECP. Secondary effluent that had bypassed the filters was still UV disinfected and a sample was collected as per the ECA. Verbal notification was provide to SAC and the MOH- SMDHU. Due to the rarity of this event, it is not expected to be an ongoing issue. Contractors who installed the disk filters have been contacted to make further corrections and to perform further testing of the chemical cleaning system to ensure that everything is working correctly and no further bypasses occur during the installation of the system.

Was this a reportable spill or discharge?: ● Yes ○ No

If "Yes", at what time was it first reported to the MOE?

March 7, 2023 at 1605 hrs to MOE- SAC

Was it reported to the MOE district office?: ● Yes ○ No

If "Yes", which office/location and who was the contact?: MECP Barrie District Office- local inspector Darren Haines on March 8 at 1415 hrs

Was it reported to MOE SAC?: ● Yes ○ No

If "Yes", at what time was it reported to MOE SAC?:

March 7, 2023 at 1605 hrs to MOE- SAC

Was it reported to Municipality?: ● Yes ○ No

If "Yes", at what time was it reported to Municipality?:

March 8, 2023: SOM Richard Eagle notified The Town of Wasaga Beach of the Bypass Incident. Town was sent via email the Public Notification of Spills, Bypass and Overflow Downstream User Notification Form for posting on their Municipal Website at 1053 hrs.

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ● No

If "Yes", was it received?: ○ Yes ○ No

Was external emergency assistance requested?: ○ Yes ● No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvment?: ○ Yes ● No

If "Yes", who?: _____

Was the public affected?: ● Yes ○ No

If "Yes", how?: As per the ECA any potential downstream users must be notified. Town was sent via email the Public Notification of Spills, Bypass and Overflow Downstream User Notification Form for posting on their Municipal Website at 1053 hrs on March 8, 2023

Updated By: Kristen Tilotta 03/08/2023 03:19:32 PM

Comments:

SAC Reference Number: 1-32F6Z3
Facility: Wasaga Beach WPCP
Works Number: 120001862
Bypass Location: Disk Filters
Bypass Date & Time: March 7, 2023 from 1442 to 1442 hrs
Duration: Less than a minute
Bypass Contents: Partially Treated, UV Disinfected Secondary Effluent
Approximate Volume: >8 m3 (overestimate, due to the short duration difficult to assess flow plus not all flow at the time bypassed the filters)

Incident Description
On March 7, 2023 at 1442 hours while operations staff were attempting to test the operational functionality of the chemical cleaning system, a chemical cleaning cycle was initiated during a backwash cycle. The cleaning cycle shutdown the backwash pumps and disk filter rotation, causing a very brief bypass event (less than one minute).

Actions Taken to Control Incident
Responding operations staff was already present when the alarm sounded and manual backwashing was immediately initiated. Influent levels dropped below bypass overflow point in less than one minute.

Corrective Actions
No further corrective actions required as indicated by the MOH, SAC or the

MECP. Secondary effluent that had bypassed the filters was still UV disinfected and a sample was collected as per the ECA. Verbal notification was provide to SAC and the MOH- SMDHU (see reporting communication below). Due to the rarity of this event, it is not expected to be an ongoing issue. Contractors who installed the disk filters have been contacted to make further corrections and to perform further testing of the chemical cleaning system to ensure that everything is working correctly and no further bypasses occur during the installation of the system.

Reporting
- March 7, 2023 at 1605 hrs: Operator Colin Kasperavicius verbally notified the Spills Action Centre of the bypass incident. Spoke with E.I. Lorianne Green, Incident Report 1-32F6Z3 was generated. No further actions advised.
- March 7, 2023 at 1624 hrs: Operator Colin Kasperavicius verbally notified the Ministry of Health- Simcoe Muskoka District Health Unit of Bypass incident. Left voicemail for on-call PHI.
- March 7, 2023 at 1700 hrs: Operator Colin Kasperavicius received a call back from the Ministry of Health- Simcoe Muskoka District Health Unit- PHI Cheryl Walt about the incident. Colin provided details. No further actions advised.
- March 8, 2023 at 1415 hrs: PCT Kristen Tilotta notified local MECP Inspector Darren Haines. No further actions advised.
- March 8, 2023: SOM Richard Eagle notified The Town of Wasaga Beach of the Bypass Incident. Town was sent via email the Public Notification of Spills, Bypass and Overflow Downstream User Notification Form for posting on their Municipal Website at 1053 hrs.
- There is a duty to notify and report any unauthorized deposits as per the Fisheries Act, so Environment Canada will be copied on the written notification.

Ontario Clean Water Agency
Environmental Incident Report

Facility ID: 5004 EIncidentReport

Facility Name: Wasaga Beach Wastewater Treatment Plant

Address: 30 Woodland Drive

City: Wasaga Beach

Province: Ontario

Postal Code: L9Z2V4

Date of Occurrence: 05/12/2023

Time of Occurrence: 06:30:00 AM

Nature of the Incident

○ Level 1 Contingency ● Level 2 Contingency ○ Level 3 Contingency *Click here To Show the Definitions*

Incident affected: ☐ Air ☐ Water ☒ Land ☐ Nothing

What was discharged or emitted?

☐ Chlorine
☐ Sodium Hypochlorite
☐ Calcium Chloride
☐ Aluminum Compounds (Specify in Other)
☐ Arsenic
☐ Fluoride
☐ Oil/Diesel/Gas
☒ Untreated or partly treated sewage
☐ Odours
☐ Water
☐ Iron Coagulants

Other: NASM Certified and Land Ready Biosolids Material

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 1400000 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

On May 12, 2023 at approximately 0630 hrs, Region of Huronia Environmental Services (ROHES) had arrived on site at the WPCP to haul biosolids from Sludge Storage Tower #1 to apply the NASM certified biosolids, which was ready for field application, to land. Upon arrival ROHES and operations staff had discovered that check-valve failure had led to the biosolids contents spilling out from the valve/sludge transfer pumps and out onto the surrounding area in the WPCP complex towards adjacent MNR parkland. Operations Manager Richard Eagle received a call from the Town at 0649 hrs to notify OCWA that the Town had received a call from a resident regarding a possible sewage spill on the north side of the WPCP. Richard Eagle notified on-call operator Angela Pauze at 0655hrs of the potential incident.

Where did the release go?:

On Land- Area surrounding the Biosolids Building/Complex towards adjacent MNR Parkland

If it entered a watercourse: ○ Yes ● No

If it went off site: ● Yes ○ No

Duration of the release?: Unknown

Is the release now stopped?: ● Yes ○ No

Was there any damage? (i.e. property and/or environmental): ○ Yes ○ No ● N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

Operators responded by stopping the sludge pump, re-valving the flow to Sludge Storage 2 and redirecting flow back into the process. RHOES sucker truck began cleaning up the area adjacent to the building (sludge loading arm concrete pad area). The Senior Operations Manager contacted the MNR site supervisor to request access to the adjacent MNR land for further clean-up in the bush area. MNR granted access permission, further clean-up of the area to continue. All trails in the parkland/forest were closed to public access.

What actions have been taken to remediate the incident?

- Further cleanup of the spilled biosolids to continue throughout the day - Biosolids material is NASM certified and was ready for field application. A sample was collected on May 8, 2023 prior to field application as per NASM guidelines. Results can be shared once received. - Verbal notification was provided to the MNR, SAC, MOH-SMDHU and local MECP inspector (see reporting communication below). - Operators staff to check the alarming system (high level float) - Operations staff to perform root cause analysis on why valve failure occurred.

Was this a reportable spill or discharge?: ● Yes ○ No

If "Yes", at what time was it first reported to the MOE?

May 12, 2023 at 1233 hrs to Spills Action Centre (SAC)

Was it reported to the MOE district office?: ● Yes ○ No

If "Yes", which office/location and who was the contact?: MECP- Barrie District Office to local inspector Darren Haines

Was it reported to MOE SAC?: ● Yes ○ No

If "Yes", at what time was it reported to MOE SAC?:

May 12, 2023 at 1233 hrs to SAC

Was it reported to Municipality?: ● Yes ○ No

If "Yes", at what time was it reported to Municipality?:

Township was aware of potential spill around 0655 hrs on May 12, 2023

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ● No

If "Yes", was it received?: ○ Yes ○ No

Was external emergency assistance requested?: ○ Yes ● No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvment?: ○ Yes ● No

If "Yes", who?: _____

Was the public affected?: ○ Yes ● No

If "Yes", how?: Public access to MNR parkland/trails and forest was closed

Updated By: Kristen Tilotta 05/12/2023 01:45:55 PM

Comments:

SAC Reference Number: 1-3GIJH8
Facility: Wasaga Beach WPCP
Works Number: 120001862
Spill Location: On Land- area surrounding the Biosolids Building and adjacent MNR parkland
Spill Date & Time: Start Time: Unknown Start Time. Discovered May 12, 2023 at 0630 hrs
Duration: Unknown
Spill Contents: Biosolids Material- NASM certified for and ready of land application
Approximate Volume: 1,400 m3

Incident Description
On May 12, 2023 at approximately 0630 hrs, Region of Huronia Environmental Services (RHOES) had arrived on site at the WPCP to haul biosolids from Sludge Storage Tower #1 to apply the NASM certified biosolids, which was ready for

field application, to land. Upon arrival RHOES and operations staff had discovered that check-valve failure had led to the biosolids contents spilling out from the valve/sludge transfer pumps and out onto the surrounding area in the WPCP complex towards adjacent MNR parkland. Operations Manager Richard Eagle received a call from the Town at 0649hrs to notify OCWA that the Town had received a call from a resident regarding a possible sewage spill on the north side of the WPCP. Richard Eagle notified on-call operator Angela Pauze at 0655hrs of the potential incident.

Actions Taken to Control Incident
Operators responded by stopping the sludge pump, re-valving the flow to Sludge Storage 2 and redirecting flow back into the process. RHOES sucker truck began cleaning up the area adjacent to the building (sludge loading arm concrete pad area). The Senior Operations Manager contacted the MNR site supervisor to request access to the adjacent MNR land for further clean-up in the bush area. MNR granted access permission, further clean-up of the area to continue. All trails in the parkland/forest were closed to public access.

Corrective Actions
- Further cleanup of the spilled biosolids to continue throughout the day
- Biosolids material is NASM certified and was ready for field application. A sample was collected on May 8, 2023 prior to field application as per NASM guidelines. Results can be shared once received.
- Verbal notification was provided to the MNR, SAC, MOH-SMDHU and local MECP inspector (see reporting communication below).
- Operators staff to check the alarming system (high level float)
- Operations staff to perform root cause analysis on why valve failure occurred.

Reporting
- May 12, 2023 at 0649 hrs Town of Wasaga Beach notified OCWA about a possible sewage spill on the north side of the WPCP.
- May 12, 2023 at 0655hrs Richard Eagle notified on-call operator Angela Pauze of the potential incident.
- May 12, 2023 at 0852 hrs: Operator Colin Kasperavicius verbally notified SPCM of confirmed spill incident.
- May 12, 2023 at approximately 1155 hrs: Senior Operations Manager- Richard Eagle notified and requested access to the MNR parkland from the site supervisor for remedial action clean-up of forest area. Access was provided. Public access to the forest/walking trails was closed.
- May 12, 2023 at 1233 hrs: SPCM Kristen Tilotta verbally notified the Spills Action Centre (SAC) and spoke with Environmental Officer Nigel. No further actions advised. Incident #1-3GIJH8 assigned.
- May 12, 2023 at 1236 hrs: SPCM Kristen verbally notified the Ministry of Health- Simcoe Muskoka District Health Unit of Spill incident. Spoke with PHI Megan McCabe. No further actions advised.
- May 12, 2023 at 1245 hrs: SPCM Kristen Tilotta verbally notified local MECP Inspector Darren Haines. No immediate actions advised.

Ontario Clean Water Agency
Environmental Incident Report

Facility ID: 5004

EIncidentReport

Facility Name: Wasaga Beach Wastewater Treatment Plant

Address: 30 Woodland Drive

City: Wasaga Beach

Province: Ontario

Postal Code: L9Z2V4

Date of Occurrence: 07/13/2023

Time of Occurrence: 09:00:00 AM

Nature of the Incident

● Level 1 Contingency ○ Level 2 Contingency ○ Level 3 Contingency *Click here To Show the Definitions*

Incident affected: ☐ Air ☒ Water ☐ Land ☐ Nothing

What was discharged or emitted?

☐ Chlorine
☐ Sodium Hypochlorite
☐ Calcium Chloride
☐ Aluminum Compounds (Specify in Other)
☐ Arsenic
☐ Fluoride
☐ Oil/Diesel/Gas
☒ Untreated or partly treated sewage
☐ Odours
☐ Water
☐ Iron Coagulants

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 1000 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

On July 13, 2023 there was a heavy rain event. At 08:19 operators received a text "Filter Inlet High Level"

Where did the release go?:

Nottawasaga River

If it entered a watercourse: ● Yes ○ No

If it went off site: ● Yes ○ No

Duration of the release?: 10 minute

Is the release now stopped?: ● Yes ○ No

Was there any damage? (i.e. property and/or environmental): ○ Yes ● No ○ N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

At 09:00 an operator entered the Filter Building to find the inlet channel overflowing. At 09:05 the sand filter inlets were opened.

What actions have been taken to remediate the incident?

No further corrective actions required as indicated by the MOH, SAC or the MECP. Secondary effluent that had bypassed the filters was still UV disinfected and a sample was collected as per the ECA. Verbal notification was provide to SAC and the MOH- SMDHU.

Was this a reportable spill or discharge?: ● Yes ○ No

If "Yes", at what time was it first reported to the MOE?

Reported to MECP-SAC at 1420 hrs on July 13, 2023

Was it reported to the MOE district office?: ● Yes ○ No

If "Yes", which office/location and who was the contact?: Barrie MECP District Office- Darren Haines on July 13, 2023 at 1415 hrs

Was it reported to MOE SAC?: ● Yes ○ No

If "Yes", at what time was it reported to MOE SAC?:

Reported to MECP-SAC at 1420 hrs on July 13, 2023

Was it reported to Municipality?: ● Yes ○ No

If "Yes", at what time was it reported to Municipality?:

Reported to Town of Wasaga Beach at 1315 hrs on July 13, 2023 via email

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ● No

If "Yes", was it received?: ○ Yes ○ No

Was external emergency assistance requested?: ○ Yes ● No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvment?: ○ Yes ● No

If "Yes", who?: _____

Was the public affected?: ○ Yes ● No

If "Yes", how?: _____

Updated By: Kristen Tilotta 07/14/2023 03:24:34 PM

Comments:

SAC Reference Number: 1-3MRSYC
Facility: Wasaga Beach WPCP
Works Number: 120001862
Bypass Location: Disk Filters
Bypass Date & Time: March 7, 2023 from 1442 to 1442 hrs
Duration: roughly 10 minutes
Bypass Contents: Partially Treated, UV Disinfected Secondary Effluent
Approximate Volume: less than 1 m3 (overestimate, due to the short duration difficult to assess flow plus not all flow at the time bypassed the filters).

Incident Description
On July 13, 2023 there was a heavy rain event. At 08:19 operators received a text "Filter Inlet High Level".

Actions Taken to Control Incident
At 09:00 an operator entered the Filter Building to find the inlet channel overflowing. At 09:05 the sand filter inlets were opened.

Corrective Actions
No further corrective actions required as indicated by the MOH, SAC or the MECP. Secondary effluent that had bypassed the filters was still UV disinfected and a sample was collected as per the ECA. Verbal notification was provide to SAC and the MOH- SMDHU (see reporting communication below).

Reporting
- July 13, 2023 at 1415 hrs: Process & Compliance Technician, Angela Pauze, left local MECP Inspector Darren Haines a voicemail.
- July 13, 2023 at 1420 hrs: Process & Compliance Technician, Angela Pauze, verbally notified the Spills Action Centre of the bypass incident. Spoke with Alim Ahan, Incident Report 1-3MRSYC was generated. No further actions advised.
- July 13, 2023 at 1432 hrs: Process & Compliance Technician, Angela Pauze, verbally notified the Ministry of Health- Simcoe Muskoka District Health Unit of Bypass incident. Left voicemail.
- July 13, 2023 at 1519 hrs: Process & Compliance Technician, Angela Pauze,

received a call back from the Ministry of Health- Simcoe Muskoka District Health Unit- PHI Pauline Loo about the incident. Angela provided details. No further actions advised.
-
- July 13, 2023 at 1335 hrs: SOM Richard Eagle notified The Town of Wasaga Beach of the Bypass Incident via email.
- There is a duty to notify and report any unauthorized deposits as per the Fisheries Act, so Environment Canada will be copied on the written notification.

Ontario Clean Water Agency
Environmental Incident Report

Facility ID: 5004

EIncidentReport

Facility Name: Wasaga Beach Wastewater Treatment Plant

Address: 30 Woodland Drive

City: Wasaga Beach

Province: Ontario

Postal Code: L9Z2V4

Date of Occurrence: 07/20/2023

Time of Occurrence: 07:22:00 PM

Nature of the Incident

● Level 1 Contingency ○ Level 2 Contingency ○ Level 3 Contingency *Click here To Show the Definitions*

Incident affected: ☐ Air ☐ Water ☐ Land ☐ Nothing

What was discharged or emitted?

☐ Chlorine
☐ Sodium Hypochlorite
☐ Calcium Chloride
☐ Aluminum Compounds (Specify in Other)
☐ Arsenic
☐ Fluoride
☐ Oil/Diesel/Gas
☒ Untreated or partly treated sewage
☐ Odours
☐ Water
☐ Iron Coagulants

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 100 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

On July 20, 2023 there was a heavy rain event. At 18:58 on call operator received a text "Filter Inlet High Level". On call operator arrived to find evidence of a filter bypass event.

Where did the release go?:

Nottawasga River

If it entered a watercourse: ● Yes ○ No

If it went off site: ● Yes ○ No

Duration of the release?: 33 minutes

Is the release now stopped?: ● Yes ○ No

Was there any damage? (i.e. property and/or environmental): ○ Yes ● No ○ N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

Operator arrived on site and opened Sand Filter 3 inlet from partially to fully open, Disk Filter 1 & 2 inlets opened one more turn. Bypass event ended.

What actions have been taken to remediate the incident?

No further corrective actions required as indicated by the MOH, SAC or the MECP. Secondary effluent that had bypassed the filters was still UV disinfected and a sample was collected as per the ECA.

Was this a reportable spill or discharge?: ● Yes ○ No

If "Yes", at what time was it first reported to the MOE?

July 20, 2023 at 2210 hrs: operator verbally notified Spills Action Centre (SAC), Environmental Officer, Julian.

Was it reported to the MOE district office?: ● Yes ○ No

If "Yes", which office/location and who was the contact?: July 21, 2023 at 15:25 hrs: Process Compliance Technician verbally notified Darren Haines (Barrie District Office)

Was it reported to MOE SAC?: ● Yes ○ No

If "Yes", at what time was it reported to MOE SAC?:

July 20, 2023 at 2210 hrs: operator verbally notified Spills Action Centre (SAC), Environmental Officer, Julian.

Was it reported to Municipality?: ● Yes ○ No

If "Yes", at what time was it reported to Municipality?:

July 21,2023 at 1510 hrs: SOM notified the Town of Wasaga Beach Public Works Director via email

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ● No

If "Yes", was it received?: ○ Yes ○ No

Was external emergency assistance requested?: ○ Yes ● No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvment?: ○ Yes ● No

If "Yes", who?: _____

Was the public affected?: ○ Yes ● No

If "Yes", how?: _____

Updated By: Kristen Tilotta 07/24/2023 08:58:25 AM

Comments:

SAC Reference Number: 1-3NPNQK
Facility: Wasaga Beach WPCP
Works Number: 120001862
Bypass Location: Disk Filters
Bypass Date & Time: July 20, 2023 from 1922 to 1955 hrs
Duration: approximately 33 minutes
Bypass Contents: Partially Treated, UV Disinfected Secondary Effluent
Approximate Volume: approximately 100 L

Incident Description
On July 20, 2023 there was a heavy rain event. At 18:58 on call operator received a text "Filter Inlet High Level".

Actions Taken to Control Incident
On call operator arrived to find evidence of a filter bypass event:
" Sand Filter 3 inlet from partially to fully open
" Disk Filter 1 & 2 inlets opened one more turn
" Took appropriate grab samples

Corrective Actions
No further corrective actions required as indicated by the MOH, SAC or the MECP. Secondary effluent that had bypassed the filters was still UV disinfected and a sample was collected as per the ECA. Verbal notification was provide to SAC and the MOH- SMDHU (see reporting communication below).

Reporting
- July 20, 2023 at 2210 hrs: Operations Supervisor (OS), Colin Kasperavicius verbally notified Spills Action Centre (SAC), Environmental Officer, Julian. No further actions advised
- July 20, 2023 at 2225 hrs: OS, Colin Kasperavicius, verbal notified Simcoe Muskoka District Health Unit (SMDHU) Answering Service, Shanyn. No further actions advised

- July 20, 2023 at 2238 hrs: OS, Colin Kasperavicius, verbally notified, Public Health Inspector (PHI) Ty Le. No further actions advised.
- July 21,2023 at 1510 hrs: SOM Richard Eagle emailed Wasaga Beach Public Works Director, Kevin Lalonde
- July 21, 2023 at 15:25 hrs: Process Compliance Technician, Angela Pauze verbally notified Environmental Officer, Darren Haines. No further actions advised

- There is a duty to notify and report any unauthorized deposits as per the Fisheries Act, so Environment Canada is copied on the written notification.

Ontario Clean Water Agency
Environmental Incident Report

Facility ID: 5004 EIncidentReport

Facility Name: Wasaga Beach Wastewater Treatment Plant
Address: 30 Woodland Drive
City: Wasaga Beach
Province: Ontario
Postal Code: L9Z2V4
Date of Occurrence: 12/21/2023
Time of Occurrence: 11:19:00 AM

Nature of the Incident

● Level 1 Contingency ○ Level 2 Contingency ○ Level 3 Contingency *Click here To Show the Definitions*

Incident affected: ☐ Air ☒ Water ☐ Land ☐ Nothing

What was discharged or emitted?

☐ Chlorine
☐ Sodium Hypochlorite
☐ Calcium Chloride
☐ Aluminum Compounds (Specify in Other)
☐ Arsenic
☐ Fluoride
☐ Oil/Diesel/Gas
☒ Untreated or partly treated sewage
☐ Odours
☐ Water
☐ Iron Coagulants

Other: _____

If this was a discharge, spill or emission...

If a liquid, approximately what quantity was released?: 1090 Litres

If a gas, approximately what quantity was released?: _____

If a solid, approximately what quantity was released?: _____ Kg

What was the source of release?:

Disc Filter 2 back wash pump motor faulted, causing it to bypass

Where did the release go?:

The release went into the Notawasaga River

If it entered a watercourse: ● Yes ○ No

If it went off site: ● Yes ○ No

Duration of the release?: 3 minutes

Is the release now stopped?: ● Yes ○ No

Was there any damage? (i.e. property and/or environmental): ○ Yes ● No ○ N/A

If "Yes", describe below and fill out "Insurance Claim" report

Action(s) Taken

What actions were taken to control the incident?

Disc Filter 2 was taken out of service

What actions have been taken to remediate the incident?

Disc Filter 2 Backwash pump motor overload switch replacement

Was this a reportable spill or discharge?: ● Yes ○ No

If "Yes", at what time was it first reported to the MOE?

December 21, 2023 at 14:36 hours, PCT, Angela Pauze, called Environmental Officer, Darren Haines. No further actions advised.
December 21, 2023 at 14:48 hours, PCT, Angela Pauze, Simcoe Public Health Inspector, Mona Ziaee. No further actions advised.

Was it reported to the MOE district office?: ● Yes ○ No

If "Yes", which office/location and who was the contact?: Barrie District Office of the MECP

Was it reported to MOE SAC?: ● Yes ○ No

If "Yes", at what time was it reported to MOE SAC?:

December 21, 2023 at 14:21 hours, PCT, Angela Pauze, called Spills Action Centre (SAC), spoke to Environmental Officer, Dylan Wenzel. On further actions advised

Was it reported to Municipality?: ● Yes ○ No

If "Yes", at what time was it reported to Municipality?:

December 21, 2023 at 15:15 hours the municipality was emailed the bypass notification
December 21, 2023 at 16:33 hours the municipality communications officer was emailed the Public Notification

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ● No

If "Yes", was it received?: ○ Yes ○ No

Was external emergency assistance requested?: ○ Yes ● No

If "Yes", from who?: ☐ Fire Department ☐ Equipment Suppliers ☐ Canutec
☐ Ambulance or Hospital ☐ MOE ☐ Coast Guard
☐ Police ☐ Municipality

Other: _____

Was there any media involvment?: ○ Yes ● No

If "Yes", who?: _____

Was the public affected?: ○ Yes ○ No

If "Yes", how?: _____

Updated By: Angela Pauze 12/22/2023 09:40:53 AM

Comments:

Good Day,

This is the written notification concerning a Bypass Incident of Partially Treated, UV Disinfected Effluent at Wasaga Beach WPCP, December 21, 2023.

SAC Reference Number: 1-JUFCA
Facility: Wasaga Beach WPCP
Works Number: 120001862
Bypass Location: Disk Filter #2
Bypass Date & Time: December 21, 2023 from 11:19 to 11:21 hrs:
Duration: approximately 3 minutes
Bypass Contents: Partially Treated, UV Disinfected Secondary Effluent
Approximate Volume: approximately 1090 L

Incident Description
December 21, 2023, Disc Filter 2 back wash pump motor faulted, causing it to bypass

Actions Taken to Control Incident
" Disc Filter 2 was taken out of service
" Took appropriate grab samples

Corrective Actions
" Backwash pump motor overload switch replacement
No further corrective actions required as indicated by the MOH, SAC or the MECP. Secondary effluent that had bypassed the filters was still UV disinfected and a sample was collected as per the ECA. Verbal notification was provide to SAC and the MOH- SMDHU (see reporting communication below).

Reporting
- December 21, 2023 at 14:21 hours, PCT, Angela Pauze, called Spills Action Centre (SAC), spoke to Environmental Officer, Dylan Wenzel. On further actions advised

- December 21, 2023 at 14:36 hours, PCT, Angela Pauze, called Environmental Officer, Darren Haines. No further actions advised.
- December 21, 2023 at 14:48 hours, PCT, Angela Pauze, Simcoe Public Health Inspector, Mona Ziaee. No further actions advised.

- There is a duty to notify and report any unauthorized deposits as per the Fisheries Act, so Environment Canada is copied on this written notification.

Please find attached a copy of the Environmental Incident Report for your records. Results from sampling will be shared once received from the lab.

If there are any questions or comments, please let me know.

Kind regards,

Angela Pauzé (she/her)
Process & Compliance Technician
Georgian Bay and South Simcoe Hub
Georgian Highlands Region
Ontario Clean Water Agency (OCWA)
Cell: 705-715-7241
Tel: 705-429-2525
Fax: 705-429-7967
Email: apauze@ocwa.com

2023 Annual Performance Report

Appendix F

Notice of Modification to Sewage Works (Limited Operational Flexibility)

Ontario

Ministry of
the Environment

Notice of Modification to Sewage Works

RETAIN COPY OF COMPLETED FORM AS PART OF THE ECA AND SEND A COPY TO THE WATER SUPERVISOR (FOR MUNICIPAL PLANTS) OR DISTRICT MANAGER (FOR INDUSTRIAL PLANTS)

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

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

ECA Owner	ECA number	Issuance Date (mm/dd/yy)	Notice number
Town of Wasaga Beach	5523-A3ZQQ8	11/18/15	1

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

(Attach a detailed description of the sewage works)

Continue with the addition of a bio-engineered industrial waste degrader XLR8 to the aerobic digesters for odour control as per ECA No. 5523-A3ZQQ8 and past the one year pilot study.

Description shall include:

1. A detail description above of the modifications and/or operations to the sewage works (e.g. sewage work component, location, size, equipment type/model, material, process name, etc.)
2. An assessment of the anticipated environmental effects
3. Updated versions of, or amendments to, all relevant technical documents required by this ECA that are affected by the modifications as applicable, e.g. site plan, design brief, drawings, emergency and spill prevention plan, etc.

Part 3 – Declaration by Professional Engineer

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

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

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

Name (Print)	PEO License Number
Hank Andres	100074097
Signature	**Date (mm/dd/yy)**
Hank Andres	03/30/2016

Name of Employer

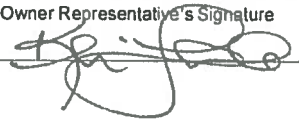
Ontario Clean Water Agency

Part 4 – Declaration by Owner

I hereby declare that:

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

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

Name of Owner Representative (Print)	Owner representative's title (Print)
KEVIN LALONDE	DIRECTOR OF PUBLIC WORKS
Owner Representative's Signature	**Date (mm/dd/yy)**
	03/30/2016

2023 Annual Performance Report

Appendix G

2024 Sampling Schedule

2024 Sampling Calendar

Wasaga Beach Water Pollution Control Plant (Org #5004)

Class III WWT Class II WWC -ECA #5669-BWJPYC

JANUARY						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
1	2	**3-W;BiW;M**	4	5	6	7
8	9	**10-W**	11	12	13	14
15	6	**7-W;BiW**	18	19	20	21
22	23	**24-W**	25	26	27	28
29	30	**31-W;BiW**				

FEBRUARY						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
			1	2	3	4
5	6	**7-W;M**	8	9	10	11
12	13	**14-W;BiW**	15	16	17	18
19	20	**21-W**	22	23	24	25
26	27	**28-W;BiW**	29			

MARCH						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
				1	2	3
4	5	**6-W;M**	7	8	9	10
11	12	**13-W;BiW**	14	15	16	17
18	19	**20-W**	21	22	23	24
25	26	**27-W;BiW**	28	29	30	31

APRIL						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
1	2	**3-W;M;AL**	4	5	6	7
8	9	**10-W;BiW**	11	12	13	14
15	16	**17-W**	18	19	20	21
22	23	**24-W;BiW**	25	26	28	28
29	30					

MAY						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
		1-W;M	2	3	4	5
6	7	**8-W;BiW**	9	10	11	12
13	14	**15-W**	16	17	18	19
20	21	**22-W;BiW**	23	24	25	26
27	28	**29-W**	30	31		

JUNE						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
					1	2
3	4	**5-W;BiW;M**	6	7	8	9
1	11	**12-W**	13	14	15	16
17	18	**19-W;BiW**	20	21	22	23
24	25	**26-W**	27	28	29	30

Stat Holiday/Weekend
Sample Day

W=Weekly; **BiW**= Bi-Weekly; **M**=Monthly; **AL**=Accute Lethality;

If you are NOT able to sample on the scheduled day, call your PCT as soon as possible

S:\Wasaga\Compliance\03 WATER FACILITIES\12 WASAGA BEACH (Town of)\01 OPERATIONAL\1-1 Sampling Schedule & Calendar\Sampling Calendar_Wasaga Beach WPCP_2024_2023.12.04.xlsx

Revised 2023-12-19

2024 Sampling Calendar

Wasaga Beach Water Pollution Control Plant (Org #5004)

Class III WWT Class II WWC -ECA #5669-BWJPYC

JULY						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
1	2	**3-W;BiW;M**	4	5	6	7
8	9	**10-W**	11	12	13	14
15	16	**17-W;BiW**	18	19	20	21
22	23	**24-W**	25	26	27	28
29	30	**31-W;BiW**				

AUGUST						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
			1	2	3	4
5	6	**7-W;M**	8	9	10	11
12	13	**14-W;BiW**	15	16	17	18
19	20	**21-W**	22	23	24	25
26	27	**28-W;BiW**	29	30	31	

SEPTEMBER						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
						1
2	3	**4-W;M**	5	6	7	8
9	10	**11-W;BiW**	12	13	14	15
16	17	**18-W**	19	20	21	22
23	24	**25-W;BiW**	26	27	28	29
30						

OCTOBER						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
	1	**2-W;M**	3	4	5	6
7	8	**9-W;BiW**	10	11	12	13
14	15	**16-W**	17	18	19	20
21	22	**23-W;BiW**	24	25	26	27
28	29	**30-W**	31			

NOVEMBER						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
				1	2	3
4	5	**6-W;BiW;M**	7	8	9	10
11	12	**13-W**	14	15	16	17
18	19	**20-W;BiW**	21	22	23	24
25	26	**27-W**	28	29	30	

DECEMBER						
M	**T**	**W**	**TH**	**F**	**St**	**Su**
						1
2	3	**4-W;BiW;M**	5	6	7	8
9	10	**11-W**	12	13	14	15
16	17	**18-W;BiW**	19	20	21	22
23-W	24	25	26	27	28	29
30-W;BiW	31					

Stat Holiday/Weekend
Sample Day

W=Weekly**; BiW**= Bi-Weekly**; M**=Monthly**; AL**=Accute Lethality**;**

If you are NOT able to sample on the scheduled day, call your PCT as soon as possible

2024 Laboratory Sampling Requirements: **Wasaga Beach DRINKING WATER SYSTEM**

O.Reg 170/03, Large Municipal Residential System, Approximate Population: 24,862

Org #: 5004/5005, Works #:220002137

Revised: 2023-12-19

Frequency	Timeframe	Source	Parameters
WEEKLY	Every Tuesday	RW (Powerline Well 2)	E. Coli; Total Coliform
		RW (Powerline Well 3)	E. Coli; Total Coliform
		RW (Powerline Well 4)	E. Coli; Total Coliform
		RW (Jenetta Well 1)	E. Coli; Total Coliform
		RW (Jenetta Well 2)	E. Coli; Total Coliform
		RW (Jenetta Well 3)	E. Coli; Total Coliform
		TW (Powerline)	E. Coli; Total Coliform; HPC
		TW (Jenetta)	E. Coli; Total Coliform; HPC
		9 DW[a]	E. Coli; Total Coliform; HPC(3)
QUARTERLY	Third Tuesday of July	TW (Powerline)	Nitrates; Nitrites
		TW (Jenetta)	Nitrates; Nitrites
		DW	THMs; HAAs
SEMI-ANNUAL	Third Tuesday of January	4 DW[b]	Alkalinity; pH
	Third Tuesday of July	4 DW[b]	Alkalinity; pH
36 MONTHS (2024)	Third Tuesday of January	TW (Powerline & Jenetta)	Schedule 23[c]; Schedule 24[c]
36 MONTHS (2026)	Third Tuesday of January	4 DW	Lead[b,d]
	Third Tuesday of July	4 DW	Lead[b,d]
60 MONTHS (2028)	First Tuesday of July	TW (Powerline)	Sodium[e]; Fluoride[e]
		TW (Jenetta)	Sodium[e]; Fluoride[e]

Unless specified, samples listed are required by O.Reg 170/03.

Specific sample dates for this calendar year are included in the Sampling Calendar and take into consideration stat holidays etc.

[a]Number of samples dependent on population (O.Reg 170/03, Schedule 10-2) and [b](O.Reg 170/03, Schedule 15.1-5)

[c]The last TW Schedule 23; Schedule 24 samples were collected on 2021-01-28, and is due again in Janaury, 2024

[d]System qualifies for relief from plumbing and is on a reduced lead sampling plan (O.Reg 170/03). Last lead samples were collected Jan 20 and July 21, 2023

[e]Last 60 Month TW Sodium, Fluoride collected on 2023-07-18, and are due again in July, 2028

2024 Laboratory Sampling Requirements: **Wasaga Beach Water Pollution Control Plant**

Class III WWT & Class II WWC -ECA #5669-BWJPYC

Org #: 5006, Works #:120001862

Revised: 2023-12-18

Frequency	Timeframe	Source	Parameters
WEEKLY	Every Wednesday[d]	Influent[a] (24hr Composite)	BOD_5, TSS, TP, TKN, Alkalinity
		Final Effluent (24hr Composite)	TP, NH_3 + NH_4 (TAN)
		Final Effluent (Grab)	E.Coli, pH, Temperature
		Final Effluent (Calculated)	Un-ionized Ammonia
BI-WEEKLY	Every Other Wednesday	Final Effluent[e] (24hr Composite)	CBOD5, TSS
MONTHLY	First Wednesday of each Month	Aerobic Sludge[b] (Grab)	TS, TP, TAN. Nitrate & Nitrite as Nitrogen, Metal Scan (Arsenic, Cadmium, Cobalt, Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Potassium, Selenium, Zinc), Ecoli
Annual[c]	Second Tuesday of Wednesday	Final Effluent (Grab)	Rainbow Trout Single Concentration

Unless specified, samples listed are required under ECA #5669-BWJPYC

Specific sample dates for this calendar year are included in the Sampling Calendar and take into consideration stat holidays etc.

[a]ECA minimum requirements for influent sampling is monthly, proactive sampling suggested by POTs team of weekly influent sampling, including alkalinity

[b]ECA minimum requirements is Quarterly; Sludge is sampled and analyzed according to Section 98.0.3 of the Nutrient Management Act, 2002. Note: Two samples shall be taken during the two-month period before the transfer date. At least one of them shall be taken during the one-month period before the transfer date. More frequent sampling may be required depending on the transfer date. Preference is to take sample monthly.

[c]Reference Wastewater Systems Effluent Regulations (WSER) Section 11(1). Sampling frequency based on the total effluent deposited from the previous calendar year (>2,500 to ≤50,000 m3/day). Wasaga Beach WPCP qualifies for the reduced sampling (yearly) frequency for Acute Lethality Testing under WSER regulations (11(6)).

[d]Under the ECA, Section 9(d) a schedule for sampling shall be created, and revised and updated every year through rotation of the day of the week/month for the scheduled

[e]ECA minimum requirements for final effluent sampling is monthly for CBOD5 and TSS, proactive sampling suggested by POTs team of bi-weekly sampling for these parameters

As per ECA 5669-BWJPYC, Section 9(c) i. Weekly mean once every week; ii. Monthly means once every month; and iii. Quarterly means once every three months.