

March 31, 2023

Mark Smith, Water Compliance Supervisor Ministry of the Environment and Climate Change 3rd floor, 101 17th Street East Owen Sound, Ontario N4K 0A5

RE: 2022 Annual Performance Report, Requirement for Wiarton Sewage Lagoon System under the following Environmental Compliance Approval ECA 6045-ARDJS7

Dear Mr. Smith,

The Ontario Clean Water Agency entered into an agreement with the Town of South Bruce Peninsula to operate and maintain the Wiarton Wastewater Treatment System.

Please see attached for the 2022 Annual Performance Report for the Wiarton Sewage Lagoon System which covers the reporting period of January 1, 2022 to December 31, 2022. This report was completed in accordance with the requirements set out in ECA 6045-ARDJS7.

Should you require further clarification of information regarding this report, please feel free to contact me.

Sincerely,

Leo-Paul Frigault Senior Operations Manager Ontario Clean Water Agency Grey Bruce Hub



WIARTON WASTEWATER TREATMENT PLANT

ANNUAL PERFORMANCE REPORT

For the period of JANUARY 1, 2022 TO DECEMBER 31, 2022

Prepared by the Ontario Clean Water Agency For The Corporation of the Town of South Bruce Peninsula

Table of Contents

1.	Sys	System Description						
2.	Monitoring Data							
	2.1	Sampling Frequency						
	2.2	Effluent Limits						
	2.3	Comparison of Data to Limits/Design Values6						
	2.4	Effluent Objectives						
	2.5	Comparison of Data to Effluent Objectives9						
	2.6	Effluent Monitoring						
	2.7	Influent Monitoring						
	2.8	Additional Monitoring Parameters12						
	2.8	3.1 Flows						
	2.8	3.2 TKN						
	2.9	Success & Adequacy of the System13						
3.	Ор	erating Challenges & Corrective Actions13						
4.	Ma	ajor Maintenance & Emergency Repairs14						
5.	Eff	luent Quality Assurance/Control Measures14						
6.	Cal	libration & Maintenance						
7.	Slu	dge Generation and Handling15						
8.	Septage Receiving Works							
9.	Со	mmunity Complaints						
10	. E	By-passes, Spills, Overflows and Abnormal Discharge Events						
11	. 1	Notice of Modifications						

Appendices

Appendix A: Performance Assessment Report
Appendix B: Calibration Reports
Appendix C: Community Complaints
Appendix D: Effluent By-pass Reports
Appendix E: Septage Laboratory Results

1. System Description

The Wiarton Wastewater Treatment System began operating in its present configuration in 2016. The facility includes a three (3)-cell Moving Bed Bioreactor System (MBBR), a three (3)-cell (6ha.) waste stabilization lagoon system that is aerated and operated in series configuration, a Dynasand Filtration System and a UV disinfection System.

The collection system serves the former Town of Wiarton. All raw sewage, including waste from the Wiarton Water Filtration Plant sewage pump station is collected at Sewage Pump Station no. 1 (SPS no.1) located at the intersection of George and Taylor Street. SPS no.1 is equipped with two (2) 60 hp 1775 rpm sewage pumps located in a dry well each with a rated capacity of 103.0 L/s at a TDH of 29.0 m (one duty, one standby) and a combined rated capacity of 130 L/s at a TDH of 39.0 m. The dry well is equipped with a forcemain air relief and vacuum relief valve. The sewage is then pumped to Sewage Pump Station no.2 (SPS no.2) located at the intersection of Taylor and Elm Street. SPS no.2 is equipped with three (3) 90 hp sewage pumps located in a wet well each with a rated capacity of 116 L/s at a TDH of 30.5 m (one (1) duty, two (2) standby), and two pumps in parallel having a rated capacity of 164.81 L/sec at a TDH of 36.68m (two (2) duty, one (1) standby). From there, the raw sewage is pumped to a three (3)-cell MBBR System and then flows to a three (3)-cell waste stabilization lagoon system which provides effluent polishing. Coagulant is injected at the MBBR effluent to provide precipitation of phosphorous in the lagoons. The discharge from lagoon cell #3 is continuous.

The Septage Receiving Station has controlled access and a magnetic flow meter to record volumes of septage being received. The Septage Receiving Station discharges to the MBBR.

Sodium Hypochlorite solution dosing is performed (before filtration and UV disinfection) for seasonal chlorination of lagoon effluent for control of algae growth between May and September of each year.

Disinfection that utilizes the UV disinfection system is only required from May 15 to September 15 but is currently being operated year round.

Discharge from the lagoon filter building is directed to Colpoy Bay through a 300 mm discharge pipe on Mary Street and Isaac Street (original). A 200mm backup effluent discharge pipe is located on Taylor Street. Both pipes intersect at the discharge pipe located at George and Tyson Streets.

An overview of the Wiarton Wastewater Treatment System can be found in Table 1 and a summary of the monitoring program can be found in Table 2.

Facility Name	Wiarton Wastewater Treatment Plant
Facility Type	MBBR 3-cell, Aerated Lagoon3-cell, Sand Filtration, UV
	disinfection with pumping stations (3)
Plant Classification	П
Works Number	110000819
Rated Capacity	4,400 m³/day
Number of Households	1,100
Receiving Water	Colpoy's Bay (Georgian Bay)
Environmental Compliance Approval	ECA 6045-ARDJS7 Issued November 23, 2017
Certificate of Approval	8-1028-99-006 (Air)

Table 1. Wiarton Wastewater Treatment System Overview

2022 Annual Performance Report

Town of South Bruce Peninsula: Wiarton Wastewater Treatment Plant ECA 6045-ARDJS7

Table 2.	Monitoring F	Program	for V	Viarton	WWTP
----------	--------------	---------	-------	---------	------

Source	Parameter	Frequency	Method
Influent	Flow (m ³)	Daily	Flow Meter
innuent	BOD ₅ , TSS, TP, TKN	Bi-Weekly	External Analysis
	Flow (m ³)	Daily	Flow Meter
	CBOD₅, TSS, TKN, Total Ammonia Nitrogen (TAN), Total Phosphorus	Bi-Weekly	External Analysis
	E. Coli	Bi-Weekly	External Analysis
Effluent	pH, Temperature	Bi-Weekly	In-House & External Analysis
	Temperature	Bi-Weekly	In-House & External Analysis
	Un-ionized Ammonia (WSER)	Quarterly	External Analysis
	Flow (m ³)	Daily	Flow Meter
Septage	BOD5, Total Suspended Solids, Total Phosphorous, Total Kjeldahl Nitrogen, Total Ammonia Nitrogen (TAN), Chemical Oxygen Demand Organics: Acetone, Benzene, Ethylbenzene, Isopropyl alcohol, Methyl alcohol, Methylene Chloride, Methyl ethyl, ketone, Toluene, Xylene	Monthly	External Analysis
	Metals: Aluminum, Arsenic, Barium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Tin, Zinc	Quarterly	External Analysis
MDDD	DO, pH, Temperature, Ammonia*	Daily	Online analyzers
IVIDDK	BOD, TSS, Alkalinity, Total Phosphorous*	Bi-Weekly	External Analysis

*Not required by ECA 6045-ARDJS7

2. Monitoring Data

ECA 6045-ARDJS7, Section 11.4 requires

- (a). a summary and interpretation of all Influent and Imported Sewage monitoring data, including sewage characteristics, flow rates and a comparison to the values used in the design of the Works;
- (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;

2.1 Sampling Frequency

Both raw sewage and effluent are sampled on a regular basis. The sampling types and frequencies are summarized in Table 3, 4 and 5. The sampling frequencies either meet or exceed the requirements set out in ECA 6045-ARDJS7.

Table 3.	Raw Sewage	Monitoring -	- Sampling	Frequencies	as Required
	nan oenage		o a mp m o		aoneganea

Parameter	Sample Type	Frequency
BOD ₅	Grab	Monthly
Total Suspended Solids	Grab	Monthly
Total Phosphorous	Grab	Monthly
Total Kjeldahl Nitrogen	Grab	Monthly

Table 4. Effluent Sampling Monitoring – Sampling Frequencies as Required

Parameters	Sample Type	Frequency
CBOD₅	8-hr Composite	Bi-weekly
Total Suspended Solids	8-hr Composite	Bi-weekly
Total Phosphorous	8-hr Composite	Bi-weekly
Total Ammonia Nitrogen (TAN)	8-hr Composite	Bi-weekly
E. Coli	Grab	Bi-weekly
рН	Grab	Bi-weekly
Temperature	Grab	Bi-weekly

Table 5. Imported Sewage Monitoring – Sampling Frequencies as Required by Schedule D of ECA 6045

 ARDJS7

Parameters	Sample	Frequency
	Туре	
BOD ₅	Grab	Monthly
Total Suspended Solids	Grab	Monthly
Total Phosphorous	Grab	Monthly
Total Kjeldahl Nitrogen	Grab	Monthly
Total Ammonia Nitrogen (TAN)	Grab	Monthly
Chemical Oxygen Demand	Grab	Monthly
Organics: Acetone, Benzene, Ethylbenzene, Isopropyl alcohol, Methyl	Grab	Monthly
alcohol, Methylene chloride, Methyl ethyl, ketone, Toluene, Xylene		
Metals: Aluminum, Arsenic, Barium, Cadmium, Calcium, Chromium, Cobalt,	Grab	Quarterly
Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium,		
Selenium, Silver, Sodium, Tin, Zinc		

2.2 Effluent Limits

The effluent limits that are to be met as per ECA 6045-ARDJS7 for the Wiarton Sewage Treatment Lagoon are found in Table 6.

2022 Annual Performance Report

Town of South Bruce Peninsula: Wiarton Wastewater Treatment Plant ECA 6045-ARDJS7

Effluent Parameter	Monthly Average Concentration (mg/L) *	Monthly Average Waste Loading (kg/day)			
CBOD ₅	15	66			
Total Suspended Solids	15	66			
Total Phosphorous as P	0.3	1.32			
Total Ammonia Nitrogen (May 1 to October 31)	3	13.2			
Total Ammonia Nitrogen (November 1 to April 30)	6	26.4			
рН	Maintained between 6.0 to 9.5, inclusive, at all times				
E. Coli	Not to exceed 200 cfu/100 mL geo to Septe	metric mean density from May 15 mber 15			

Table 6. Effluent Limits as per ECA 6045-ARDJS7.

*Under ECA 6045-ARDJS7 "Monthly Average Effluent Concentration" means the arithmetic mean of all Single Sample Results of the concentration of a contaminant in the Final Effluent sampled or measured during a calendar month, weighted by the quantity of the Final Effluent discharged per the days deemed to be represented by each sample

2.3 Comparison of Data to Limits/Design Values

Analytical and monitoring data for the Wiarton Wastewater Treatment System is stored in OCWA's WISKI7 data management system. Annual and monthly averages for flows, CBOD, BOD₅, Suspended Solids, Total Phosphorous as P, Nitrogen-series and E.coli can be found in Appendix A. Comparisons of analytical data from effluent samples to the effluent limits show the following removal efficiencies:

Parameter	Annual Average Concentration	Annual Average Removal Efficiency
CBOD ₅	2.33	n/a
Total Suspended Solids	4.89	95.8%
Total Phosphorous	0.03	95.0%

Table 7. 2022 Effluent Annual Average Concentrations and Removal Efficiencies

The following is a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Table 8.

		CB	OD₅		Tota	al Suspe	nded Sol	lids	Тс	otal Pho	sphorou	JS		Total Ammonia Nitrogen (TAN) E. Coli				oli
2022	Monthly Average (mg/L)	Within Limits (15 mg/L)	Monthly Average Loading (kg/d)	Within Limits (66 kg/day)	Monthly Average (mg/L)	Within Limits (15 mg/L)	Monthly Average Loading (kg/d)	Within Limits (66 kg/day)	Monthly Average (mg/L)	Within Limits (0.3 mg/L)	Monthly Average Loading (kg/d)	Within Limits (1.32 kg/day)	Monthly Average (mg/L)	Within Limits (Nov 1 to Apr 1 - 6.0 mg/L & May 1 to Oct 31 – 3.0 mg/L)	Monthly Average Loading (kg/d)	Within Limits (Nov 1 to Apr 1 - 13.2 kg/day & May 1 to Oct 31 – 26.4 kg/day)	Mean Geometric Density (cfu/100 mL)	Within Limits (200 cfu/100 mL)
January	2.0	Yes	1.8	Yes	5.4	Yes	4.7	Yes	0.03	Yes	0.03	Yes	0.14	Yes	0.12	Yes	<2.0	Yes
February	3.9	Yes	4.5	Yes	8.9	Yes	10.3	Yes	0.03	Yes	0.03	Yes	0.97	Yes	0.85	Yes	<2.0	Yes
March	2.5	Yes	5.0	Yes	8.0	Yes	15.7	Yes	0.05	Yes	0.04	Yes	1.01	Yes	0.89	Yes	<2.0	Yes
April	2.4	Yes	4.8	Yes	9.3	Yes	18.4	Yes	0.03	Yes	0.06	Yes	0.11	Yes	0.22	Yes	<2.0	Yes
May	3.6	Yes	2.2	Yes	5.8	Yes	3.5	Yes	0.03	Yes	0.02	Yes	0.14	Yes	0.08	Yes	3.96	Yes
June	3.3	Yes	2.4	Yes	3.7	Yes	2.7	Yes	0.03	Yes	0.02	Yes	0.10	Yes	0.07	Yes	<2.0	Yes
July	2.0	Yes	1.7	Yes	2.4	Yes	2.0	Yes	0.03	Yes	0.03	Yes	0.10	Yes	0.09	Yes	<2.0	Yes
August	2.0	Yes	2.1	Yes	3.7	Yes	3.8	Yes	0.03	Yes	0.03	Yes	0.13	Yes	0.10	Yes	<2.0	Yes
September	2.0	Yes	1.3	Yes	3.5	Yes	2.4	Yes	0.03	Yes	0.02	Yes	0.13	Yes	0.08	Yes	<2.0	Yes
October	2.0	Yes	3.7	Yes	2.9	Yes	5.3	Yes	0.03	Yes	0.06	Yes	0.12	Yes	0.23	Yes	<2.0	Yes
November	2.0	Yes	2.0	Yes	4.0	Yes	4.1	Yes	0.03	Yes	0.03	Yes	0.23	Yes	0.24	Yes	1.4	Yes
December	2.0	Yes	3.7	Yes	4.0	Yes	7.4	Yes	0.03	Yes	0.06	Yes	0.33	Yes	0.60	Yes	<2.0	Yes

Table 8. Comparison of Wiarton Wastewater Treatment System Monitoring Data to Effluent Limits, 2022

*"Monthly Average Effluent Concentration" means the arithmetic mean of all Single Sample Results of the concentration of a contaminant in the Final Effluent sampled or measured during a calendar month, weighted by the quantity of the Final Effluent discharged per the days deemed to be represented by each sample

During the reporting period there was no reportable instance where the sewage lagoon system exceeded the effluent limits set out in the ECA.

Another measure of effluent quality is pH, as per ECA 6045-ARDJS7 the effluent pH is to remain within the range of 6.0 and 9.5 at all times. In 2022, the effluent was within the effluent limits and ranged from 7.34 to 8.95 with an annual average of 8.24. A monthly summary of pH can be found in Table 9.

	Average	Minimum	Maximum						
January	8.54	8.39	8.68						
February	8.25	8.09	8.40						
March	8.43	8.33	8.54						
April	8.82	8.61	8.95						
May	8.56	8.46	8.60						
June	8.19	8.03	8.31						
July	8.23	7.70	8.65						
August	8.13	7.76	8.45						
September	7.82	7.45	8.14						
October	8.19	7.95	8.31						
November	7.74	7.34	8.14						
December	7.88	7.39	8.14						

Table 9. Monthly Summary of pH for the Wiarton Wastewater Treatment System, 2022

2.4 Effluent Objectives

The effluent objectives as per ECA 6045-ARDJS7 for the Wiarton Wastewater Treatment Lagoon are found in Table 10.

Effluent Parameter	Monthly Average Concentration (mg/L) *	Monthly Average Waste Loading (kg/day)
CBOD ₅	10	n/a
Total Suspended Solids	10	n/a
Total Phosphorous as P	0.15	n/a
Total Ammonia Nitrogen (May 1 to October 31)	3	n/a
Total Ammonia Nitrogen (November 1 to April 30)	6	n/a

 Table 10. Effluent Objectives as per ECA 6045-ARDJS7.

*Under ECA 6045-ARDJS7 "Monthly Average Effluent Concentration" means the arithmetic mean of all Single Sample Results of the concentration of a contaminant in the Final Effluent sampled or measured during a calendar month, weighted by the quantity of the Final Effluent discharged for the days deemed to be represented by each sample 2022 Annual Performance Report

Town of South Bruce Peninsula: Wiarton Wastewater Treatment Plant ECA 6045-ARDJS7

2.5 Comparison of Data to Effluent Objectives

ECA 6045-ARDJS7, Section 11.4 requires:

 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;)
 g) a summary of efforts made to achieve the design objectives;

The Owner shall make an assessment of the issues and recommendations for pro-active actions if any is required under the following situations and include in the annual report to the Water Supervisor:

• a. when any of the design objectives is not achieved more than 50% of the time in a year;

During the reporting period, the CBOD₅ monthly averages remained within the effluent objective of 10 mg/L 100% of the time producing an annual average of 2.48 mg/L and an annual average loading of 2.93 kg/d. During the 2015 reporting periods while operating without the MBBR, the Lagoon system produced an average CBOD₅ of 7.39 mg/L and an average loading of 13.30 kg/d. The addition of the MBBR process has helped decrease the annual average concentration by 66% and the average loading of CBOD₅ by 78%.

During the reporting period, the Total Suspended Solids monthly averages remained within the effluent objective of 10 mg/L, 100% of the time, producing an annual average of 5.13 mg/L and an annual average loading of 6.69 kg/d. During the 2015 reporting periods while operating without the MBBR, the Lagoon system produced an average Total Suspended Solids result of 11.89 mg/L and an average loading of 17.50 kg/d.

The MBBR process helped eliminating approximately 57% of the annual average concentration and approximately 62% of the average loading of Total Suspended Solids.

During the reporting period, the Total Phosphorus monthly averages remained within the system objective of 0.15 mg/L, 100% of the time, producing an annual average of 0.03 mg/L and an annual average loading of 0.04 kg/day. During the 2015 reporting periods while operating without the MBBR, the Lagoon system produced an average Total Phosphorus result of 0.31 mg/L and an average loading of 0.36 kg/day. The MBBR process helped eliminating approximately 90% of the annual average concentration and approximately 89% of the average loading of Total Phosphorus.

During the reporting period, the Total Ammonia Nitrogen monthly averages remained within the system objectives of 3 mg/L and 6 mg/L, 100% of the time, producing an annual average of 0.29 mg/L and an average loading of 0.30 kg/day. During the 2015 reporting period while operating without the MBBR, the Lagoon system produced an annual average Total Ammonia Nitrogen result of 4.20 mg/L and an average of 6.56 kg/day. The MBBR process helped eliminating approximately 93% of the annual average concentration and approximately 95% of the average loading of Total Ammonia Nitrogen.

All of the design objectives in the ECA were achieved 100% of the time during the reporting period.

Refer to Table 11 for detailed laboratory analysis results in comparison to the effluent objectives.

Table 11. Comparison of Warton Wastewater Treatment System Wontoning Data to Endent Objectives, 2022								
	CBOD₅		Total Suspended Solids		Total Phosphorous		Total Ammonia Nitrogen (TAN)	
2022	Monthly Average* (mg/L)	Within Objective (10 mg/L)	Monthly Average* (mg/L)	Within Objective (10 mg/L)	Monthly Average* (mg/L)	Within Objective (0.15 mg/L)	Monthly Average* (mg/L)	Within Objective**
January	2.0	Yes	5.4	Yes	0.03	Yes	0.14	Yes
February	3.9	Yes	8.9	Yes	0.03	Yes	0.97	Yes
March	2.5	Yes	8.0	Yes	0.05	Yes	1.01	Yes
April	2.4	Yes	9.3	Yes	0.03	Yes	0.11	Yes
May	3.6	Yes	5.8	Yes	0.03	Yes	0.14	Yes
June	3.3	Yes	3.7	Yes	0.03	Yes	0.10	Yes
July	2.0	Yes	2.4	Yes	0.03	Yes	0.10	Yes
August	2.0	Yes	3.7	Yes	0.03	Yes	0.13	Yes
September	2.0	Yes	3.5	Yes	0.03	Yes	0.13	Yes
October	2.0	Yes	2.9	Yes	0.03	Yes	0.12	Yes
November	2.0	Yes	4.0	Yes	0.03	Yes	0.23	Yes
December	2.0	Yes	4.0	Yes	0.03	Yes	0.33	Yes

Table 11.	Comparison of Wiarton	Wastewater ¹	Treatment Syste	em Monitoring	Data to Effluent O	bjectives, 2022

*"Monthly Average Effluent Concentration" means the arithmetic mean of all Single Sample Results of the concentration of a contaminant in the Final Effluent sampled or measured during a calendar month, weighted by the quantity of the Final Effluent discharged per the days deemed to be represented by each sample

**TAN Objectives are: Nov 1 to Apr 1 - 6.0 mg/L & May 1 to Oct 31 - 3.0 mg/L

2.6 Effluent Monitoring

The total effluent flow in 2022 was 453,418 m^3 with an annual average daily flow of 1,246 m^3 /day.

Total effluent flows in 2022 have slightly increased in comparison to 2021, while the annual average daily flow has slightly decreased (448,909 m³ and 1,230 m³/day).

2.7 Influent Monitoring

ECA 6045-ARDJS7, Section 11.4. a) a summary and interpretation of all Influent and Imported Sewage monitoring data, including sewage characteristics, flow rates and a comparison to the values used in the design of the Works;

Parameter	Minimum	Average	Maximum
BOD5 (mg/L)	10	102.9	375
TSS (mg/L)	32	134.8	332
TKN (mg/L)	0.8	14.5	37.3
Total Phosphorous	0.06	2.00	5.10

 Table 12: Influent Characteristics

In 2022, approximately 2,467 m³ of septage was received by the Wiarton Wastewater Treatment System. This is higher than 2021 (2,110 m³) and 2020 (1,642 m³) volumes. ECA 6045-ARDJS7 requires monthly septage samples to be tested for BOD₅, Total Suspended Solids, Total Phosphorous, Total Kjeldahl Nitrogen, Total Ammonia Nitrogen (TAN), Chemical Oxygen Demand, Organics and Metals (Quarterly). Biochemical Oxygen Demand (BOD₅), Total Phosphorus and Chemical Oxygen Demand are fairly stable; Total Suspended Solids, Total Kjeldahl Nitrogen (TKN) and Total Ammonia seem to vary significantly between samples. Refer to Appendix E for Septage Laboratory Results.

Table 13: Septage Receiving Characteristics

Parameter	Minimum	Maximum
Biochemical Oxygen Demand (BOD5) [mg/L]	455	3,300
Total Suspended Solids [mg/L]	158	6,810
Chemical Oxygen Demand [mg/L]	1,380	15,100
Ammonia+Ammonium (N) [mg/L]	1.2	429
Total Kjeldahl Nitrogen [as N mg/L]	48.8	563
Phosphorus (total) [mg/L]	5.2	69.4
Isopropyl Alcohol [µg/L]	<5000	<5000
Methyl alcohol [µg/L]	<5000	6,700
Acetone [µg/L]	92	<1200
Benzene [µg/L]	<0.5	<20
Ethylbenzene [µg/L]	<0.5	<20
Methylene Chloride [ug/L]	<0.5	<20
Methyl ethyl ketone [µg/L]	89	<800
Toluene [µg/L]	15.3	116

Xylene (total) [μg/L]	<0.5	<20
o-xylene [µg/L]	<0.5	<20
m/p-xylene [µg/L]	<0.5	<20
Aluminum (mg/L)	0.25	1.49
Arsenic (mg/L)	0.002	0.006
Barium (mg/L)	0.05	0.15
Cadmium (mg/L)	0.000	0.003
Calcium (mg/L)	79.8	151
Chromium (mg/L)	0.001	0.006
Cobalt (mg/L)	0.000	0.004
Copper (mg/L)	0.09	0.82
Iron (mg/L)	5.00	9.69
Lead (mg/L)	0.002	0.009
Magnesium (mg/L)	26.5	43.9
Manganese (mg/L)	0.18	0.38
Mercury (mg/L)	0.0000	0.0001
Nickel (mg/L)	0.004	0.013
Potassium (mg/L)	41.1	173
Selenium (mg/L)	0.001	0.002
Silver (µg/L)	<0.05	3.00
Zinc (mg/L)	0.16	2.69

2.8 Additional Monitoring Parameters

The following parameters do not have effluent limits or objectives but are monitored on a regular basis (see Section 2.1 for sampling frequency) as required by ECA 6045-ARDJS7.

2.8.1 Flows

The Owner shall make an assessment of the issues and recommendations for pro-active actions if any is required under the following situations and include in the annual report to the Water Supervisor:

• b. when the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity.

The total influent flow in 2022 was 528,904 m³ with an annual average daily flow of 1,503 m³/day, which is 34.2% of the recommended rated capacity of 4,400 m³/day. Total influent flows in 2022 has slightly decreased while the average daily flow has slightly increased in comparison to 2021 (569,090 m³ and 1,490 m³/day). The daily influent flow remained within the recommended rated capacity 98.6% (i.e. 346 out of 351 days) of the time during 2022.

A summary of the average and maximum daily flows (not including the Septage Receiving and MBBR Bypasses) on a monthly basis can be found in Table 14. It should be noted that a maximum or average day flow for the month does not indicate that the rated capacity was exceeded for every day of the entire month. Daily flows which exceeded the recommended rated capacity were typically due to high precipitation. For more detailed information regarding flows, refer to Appendix A.

2022	Maximum Daily Raw Sewage Flow (m ³ /d)	Average Daily Raw Sewage Flow (m ³ /d)	Annual Average (m³/d)	Within Limits of Rated Capacity (4,400 m ³ /d)
January	1,361	1,029		
February	2,611	1,373		
March	5,780	2,680		
April	2,708	2,038		
May	1,705	1,124		
June	1,542	1,094	1 5 0 1	Vac
July	1,031	901	1,501	res
August	3,098	1,225		
September	4,446	1,046		
October	3,775	1,716		
November	4,541	1,616		
December	6,064	2,010		

Table 14.	Average Daily	Raw Sewage	Flows by	Month for 2022
	Average Dan	y naw Sewage	110 10 0	y 10101101 2022

2.8.2 TKN

A parameter which is monitored on a regular basis but does not have effluent limits or objectives is TKN. The annual average TKN has slightly increased from 2021. Values still remain lower than 2015 (0.78 mg/L in 2021, 0.99 mg/L in 2020, 1.01 mg/L in 2019, 0.83 mg/L in 2018, 1.16 mg/L in 2017, 3.46 mg/L in 2016, and 4.75 mg/L in 2015).

Table 15.	Monitoring	Parameters	for Wiarton	Wastewater	Treatment	System,	, 2022
-----------	------------	------------	-------------	------------	-----------	---------	--------

Parameters	Average	Minimum	Maximum
Total Kjeldahl Nitrogen (N mg/L)	0.80	0.50	2.10

2.9 Success & Adequacy of the System

Based upon a review of the analytical and monitoring data in comparison to the effluent limits and objectives it can be concluded that the Wiarton Wastewater Treatment System is performing adequately and successfully. The system shows a high removal efficiency and was within effluent limits. Regular monitoring and necessary process changes will continue to be made to best optimize the system and enable the system to be within the effluent objectives for a greater period of time.

3. Operating Challenges & Corrective Actions

ECA 6045-ARDJS7, Section 11.4. c) a summary of all operating issues encountered and corrective actions taken; (ECA 6045-ARDJS7)

All required bypass reporting was completed and Operations staff were able to maintain good overall performance of the sewage lagoon system. See Section 10 for more information and Appendix D for Bypass Reports.

2022 Annual Performance Report

Town of South Bruce Peninsula: Wiarton Wastewater Treatment Plant ECA 6045-ARDJS7

4. Major Maintenance & Emergency Repairs

ECA 6045-ARDJS7, 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;

• MBBR maintenance – Drained to clean screens

5. Effluent Quality Assurance/Control Measures

ECA 6045-ARDJS7, Section 11.4. e) requires a summary of any effluent quality assurance or control measures undertaken;

All laboratory raw sewage and effluent samples (Section 3.1) are analyzed by SGS Canada Inc., which is an ISO 17025 accredited laboratory. Calibrations and preventative maintenance are performed on facility equipment and monitoring equipment, see Section 6 for more details. In addition to sample analysis, preventative maintenance is scheduled for key equipment in the sewage lagoon system and pumping stations on at least a monthly basis. Maintenance activities were scheduled within the work management system.

OCWA as the Operating Authority (on behalf of the Owner) has made best efforts to control the effluent quality in a manner that it remains within the Effluent Objectives in the ECA. The measures taken to support these efforts include:

- Continuous monitoring equipment
- Regular plant inspections/checks
- Laboratory (3rd party) analysis of influent, effluent and septage receiving samples
- Data review
- Process optimization and adjustments (as required)
- Scheduled/preventative maintenance
- Repairs (as necessary)

6. Calibration & Maintenance

ECA 6045-ARDJS7, Section 11.4.f. requires a summary of the calibration and maintenance carried out on all Influent, Imported Sewage and Final Effluent monitoring equipment;

All in-house monitoring equipment was calibrated as per manufacturer's recommendations. Monitoring and metering equipment was also calibrated by a third party and is done so on an annual basis. In addition to sample analysis, preventative maintenance is scheduled for all equipment at the sewage lagoon system and pumping stations on at least a monthly basis. Maintenance activities were scheduled within the work management system (WMS).

On June 14, 2022, Indus Controls performed an annual third party instrument verification of the influent, final effluent, Septage Receiving and sewage pumping station #1 and #2 flowmeters. All flow meters passed the annual verification with percent errors of less than 5%. All records for calibrations/ verifications can be found in Appendix B. On May 3, 2022, HACH performed an annual third party instrument verification of the DO probes, and pH analyzers. All

instrumentation passed the annual verification. All records for calibrations/verifications can be found in Appendix B.

7. Sludge Generation and Handling

ECA 6045-ARDJS7, 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;

Since the facility is a sewage lagoon system, accumulated sludge is stored in the lagoon cells. No sludge was disposed of in 2022 and no sludge is expected to be removed in 2023.

8. Septage Receiving Works

In 2022, approximately 2,467 m³ of septage was received by the Wiarton Wastewater Treatment System. The septage was received from various sources including:

- Owen Sound Septic Services
- Grey Bruce Septic Services
- Bluewater Sanitation

The total monthly volume of septage received can be found in Table 16.

Month	Total Volume of Septage Received (m ³)
January	205.77
February	261.15
March	288.94
April	129.34
May	167.95
June	160.97
July	91.16
August	155.95
September	102.97
October	131.60
November	118.36
December	181.72

Table 16. Total Volume of Septage Received in 2022

9. Community Complaints

ECA 6045-ARDJS7, Section 11.4.i) a summary of any complaints received and any steps taken to address the complaints;

During 2022, ten (10) community complaints for the Wiarton Wastewater Treatment System were received. The majority of complaints are due to blocked sewer laterals. A detailed summary of the community complaints and the steps taken to address the complaint can be found in Appendix C.

10. By-passes, Spills, Overflows and Abnormal Discharge Events

ECA 6045-ARDJS7, Section 11.4.j) requires a summary of all Bypasses, Overflows, spills within the meaning of Part X of EPA and abnormal discharge events, and other abnormal operating conditions;

There was zero (0) spills in 2022 at the Wiarton Wastewater Treatment System. During the reporting period, three (3) bypasses of final effluent (total volume of 21,167 m³) being discharged without receiving all of the required treatment were reported. One (1) overflow of raw sewage (total volume of 65 m³) was reported. All required information was recorded and the appropriate notifications were made to the Spills Action Centre, Ministry of Environment, Conservation and Parks (MECP), Ministry of Health and Long Term Care, the Town of South Bruce Peninsula and Environment Canada. Refer to Table 17 and Table 18 for a summary and Appendix D for detailed bypass and overflow reports.

ECA 6045-ARDJS7 requires that Quarterly bypass/overflow reports are to be submitted to the Water Supervisor. All 2022 quarterly reports were submitted to the Water Supervisor by the deadlines specified in the ECA and have been included in Appendix D.

	Tir	ne	Duration	Volume	Treatment	Samples	Posson for	Impact of Event	Mitigation
Date	ate Start End HH:MM (m ³) Process Collected Bypassed	Collected	Bypass						
March 28- April 5, 2022	March 28 14:20 PM	April 5 14:30 PM	72 Hours	21, 062	MBBR	Yes	The screens between MBBR cell 1 and 2 were plugged. The MBBR was shut down and bypassed before it spilled over.	Raw sewage discharge from the (3)-cell MBBR System bypass was directed to the (3)-cell waste stabilization lagoon system which provides effluent polishing. Flow from the lagoons was then directed into the sand filtration system and through the UV disinfection system before it was released into Colpoy's Bay.	The screens and the cells of the MBBR were cleaned before being put back online

 Table 17. Bypass Events

April 13, 2022	April 13 01:05 AM	April 13 01:40 AM	35 minutes	74.67	UV disinfection	Yes	Power failure causing UV system failure	Filter treated effluent released to effluent outfall	n/a
May 21, 2022	May 21, 2022 04:22 AM	May 21, 2022 05:10 AM	48 minutes	30	UV disinfection	Yes	Power failure causing UV system failure	Filter treated effluent released to effluent outfall	n/a

Table 18. Overflow Events

	Tir	ne	Duration	Volume	Treatment	Samples		Impact of Event	Mitigation
Date	Start	End	HH:MM	(m³)	Process Bypassed	Collected	Reason for Bypass		
August 7, 2022	12:30	14:05	1 hour 35 minutes	65	Colpoy's Bay	Raw sewage	Yes	Power bump caused issues with MCC components. This caused the pumps at pump station #1 to fail and air lock following a high flow event.	n/a

11. Notice of Modifications

ECA 6045-ARDJS7, Section 11.4. k.) a copy of all Notice of Modifications to Sewage Works submitted to the Water Supervisor under paragraph 1.d. of Condition 10, with a summary report on status of implementation of all modification.

No Notices of Modifications were submitted to the Water Supervisor during the reporting period.



Appendix A

Performance Assessment Report



Performance Assessment Report

From 1/1/2022 to 12/31/2022

5620 WIARTON WASTEWATER TREATMEN	T LAGOON 110	0000819														
	1 / 2022	2/ 2022	3/ 2022	4/ 2022	5/ 2022	6/ 2022	7/ 2022	8/ 2022	9/ 2022	10/ 2022	11/ 2022	12/ 2022	<total></total>	<avg></avg>	<max></max>	<-Criteria->
Flows																
Raw Flow: Total - Raw Sewage m³/d	31,906.90	39,811.97	83,076.61	61,127.92	34,831.27	18,602.97	27,943.06	37,974.74	31,385.31	52,791.24	46,480.16	62,299.80	528,231.95			0.00
Raw Flow: Avg - Raw Sewage m³/d	1,029.25	1,372.83	2,679.89	2,037.60	1,123.59	1,094.29	901.39	1,224.99	1,046.18	1,702.94	1,602.76	2,009.67		1,504.93		4,400.00
Raw Flow: Max - Raw Sewage m³/d	1,360.59	2,611.07	5,779.70	2,707.68	1,705.36	1,541.67	1,031.28	3,097.81	4,445.76	3,761.04	4,527.04	6,064.14			6,064.14	0.00
Raw Flow: Count - Raw Sewage m ³ /d	31.00	28.00	31.00	30.00	31.00	17.00	31.00	31.00	30.00	31.00	29.00	31.00	351.00			0.00
Eff. Flow: Total - Effluent m³/d	27,275.00	32,480.00	60,717.00	59,226.00	18,506.00	22,066.00	26,576.00	42,493.00	20,142.00	57,174.00	29,535.00	57,228.00	453,418.00			0.00
Eff. Flow: Avg - Effluent m³/d	879.84	1,160.00	1,958.61	1,974.20	596.97	735.53	857.29	1,370.74	671.40	1,844.32	1,018.45	1,846.06		1,242.24		4,400.00
Eff. Flow: Max - Effluent m ³ /d	1,311.00	1,922.00	3,354.00	4,083.00	1,645.00	3,182.00	2,518.00	3,342.00	1,702.00	4,127.00	3,013.00	5,710.00			5,710.00	0.00
Eff Flow: Count - 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
Eff: Avg cBOD5 - Effluent mg/L	< 2.00 <	3.50 <	2.20 <	2.40 <	3.20 <	2.00 <	2.00 <	2.00 <	2.00 <	2.00 <	2.00 <	2.00		< 2.33 <	3.50	20.00
Eff: # of samples of cBOD5 - Effluent	2.00	2.00	5.00	5.00	5.00	2.00	3.00	3.00	2.00	2.00	2.00	3.00	36.00			0.00
Loading: cBOD5 - Effluent kg/d	< 1.760 <	4.060 <	4.309 <	4.738 <	1.910 <	1.471 <	1.715 <	2.741 <	1.343 <	3.689 <	1.969 <	3.692		< 2.78 <	4.74	
Biochemical Oxygen Demand: BOD5								·								
Raw: Avg BOD5 - Raw Sewage mg/L	145.00 <	104.00	40.67	135.50	90.00	151.67	127.00 <	108.67 <	19.00 <	11.00	53.00	252.50		103.17	252.50	0.00
Raw: # of samples of BOD5 - Raw Sewage	2.00	2.00	3.00	2.00	2.00	3.00	2.00	3.00	2.00	2.00	2.00	2.00	27.00			0.00
Total Suspended Solids: TSS			, <u></u> ,			. <u></u>								,_	<u>.</u>	
Raw: Avg TSS - Raw Sewage mg/L	126.00	168.50	91.67	140.50	119.00	205.00	174.50	125.00	38.00	61.00	103.00	256.50		134.06	256.50	0.00
Raw: # of samples of TSS - Raw Sewage	2.00	2.00	3.00	2.00	2.00	3.00	2.00	3.00	2.00	2.00	2.00	2.00	27.00			0.00
Eff: Avg TSS - Effluent mg/L	5.50	8.50	6.40	8.00	3.60	4.00 <	2.33	4.00	3.50	3.00	4.00 <	3.33		4.89	8.50	24.00
Eff: # of samples of TSS - Effluent	2.00	2.00	5.00	5.00	5.00	2.00	3.00	3.00	2.00	2.00	2.00	3.00	36.00			0.00
Loading: TSS - Effluent kg/d	4.839	9.860	12.535	15.794	2.149	2.942 <	2.000	5.483	2.350	5.533	3.938 <	6.154		6.13	15.79	
Percent Removal: TSS - Raw Sewage %	95.63	94.96	93.02	94.31	96.97	98.05	98.66	96.80	90.79	95.08	96.12	98.70			98.70	0.00
Total Phosphorus: TP															-	
Raw: Avg TP - Raw Sewage mg/L	3.26	2.65	0.90	2.69	2.84	3.07	2.39	2.36	0.11	0.28	1.15	2.22		1.99	3.26	0.00
Raw: # of samples of TP - Raw Sewage	2.00	2.00	3.00	2.00	2.00	3.00	2.00	3.00	2.00	2.00	2.00	2.00	27.00			0.00
Eff: Avg TP - Effluent mg/L	< 0.03 <	0.04 <	0.04 <	0.03 <	0.03 <	0.03 <	0.03 <	0.03 <	0.04 <	0.03 <	0.03 <	0.03		< 0.03 <	0.04	0.50
Eff: # of samples of TP - Effluent	2.00	2.00	5.00	5.00	5.00	2.00	3.00	3.00	2.00	2.00	2.00	3.00	36.00			0.00
Loading: TP - Effluent kg/d	< 0.026 <	0.041 <	0.078 <	0.059 <	0.019 <	0.022 <	0.026 <	0.041 <	0.023 <	0.055 <	0.030 <	0.055		< 0.04 <	0.08	

03/22/2023

Page 1 of 2



Performance Assessment Report

From 1/1/2022 to 12/31/2022

Percent Removal: TP - Raw Sewage %	99.08	98.68	95.56	98.88	98.87	99.02	98.74	98.73	66.67	89.29	97.38	98.65			99.08	0.00
Nitrogen Series																
Raw: Avg TKN - Raw Sewage mg/L	22.60	20.25	6.93	17.70	22.40	23.33	16.20	19.43	1.15	2.30	1.80	16.50		14.22	23.33	0.00
Raw: # of samples of TKN - Raw Sewage	2.00	2.00	3.00	2.00	2.00	3.00	2.00	3.00	2.00	2.00	2.00	2.00	27.00			0.00
Eff: Avg TAN - Effluent mg/L	< 0.15	0.90	0.60 <	: 0.10 <	0.14 <	0.10 <	0.10 <	0.10	< 0.15	< 0.10	0.25	0.27	<	. 0.25	.90	8.00
Eff: # of samples of TAN - Effluent	2.00	2.00	5.00	5.00	5.00	2.00	3.00	3.00	2.00	2.00	2.00	3.00	36.00			0.00
Loading: TAN - Effluent kg/d	< 0.132	1.044	1.175 <	: 0.197 <	0.084 <	0.074 <	0.086 <	0.137	، 0.101	< 0.184	0.246	0.492	<	. 0.33	: 1.18	
Eff: Avg NO3-N - Effluent mg/L	5.02	5.92	5.45	3.07	0.76 <	0.12	0.29	0.13	< 0.16	2.56	2.84	5.18		2.62	5.92	0.00
Eff: # of samples of NO3-N - Effluent	2.00	2.00	5.00	5.00	5.00	2.00	3.00	3.00	2.00	2.00	2.00	3.00	36.00			0.00
Eff: Avg NO2-N - Effluent mg/L	< 0.04	0.29	< 0.11 <	< 0.03 <	0.03 <	0.03 <	0.03 <	0.03	< 0.03	< 0.05 <	. 0.04	0.09	<	: 0.07 <	: 0.29	0.00
Eff: # of samples of NO2-N - Effluent	2.00	2.00	5.00	5.00	5.00	2.00	3.00	3.00	2.00	2.00	2.00	3.00	36.00			0.00
Disinfection																
Eff: GMD E. Coli - Effluent cfu/100mL	2.00	2.00	1.78	1.68	3.96	2.00	2.00	2.00	2.00	2.00	1.41	2.00				

03/22/2023

Page 2 of 2



Appendix B Calibration Reports



Account Number / No. de Compte: 40 Customer / Client: ON Phone / Téléphone: 51	302465 NTARIO CLEAN WATER AGENCY 9-534-1610	Contact Name / Nom du Contact: LEO-PAUL FRIGAULT Fax: Email Address / Adresse: lfrigault@ocwa.com					
Location: ON Or	ITARIO CLEAN WATER AGENCY , 897 BAYVIEW ST, tario, N0H 2T0, CA	, WIARTON, Technician / Technicien: Ste Purchase Order / Bon de Commande: 5.	phen Bilton 844/5620				
/ork Order Number / Numéro de Con	nmande: WO-01272464 - Visit - PPV	Date of Service / Date de service: 5/3/	/2022				
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag				
LPV417.99.00002	1720E LR TURBIDITY SENSOR, HACH	040100000409	Filter 2 Turbidity				
s found reading: 0.022 ntu, gain 0. andard at 20 ntu (Lot A1270 exp nit is performing to specifications	67, cleaned, inspected, replaced lamp, photocell and c sep23), new gain 0.62, verified with Hach formazin star	able, confirmed lamp voltage, zeroed elec dard at 1 ntu (Lot A2013 exp feb24), reads	tronics, calibrated with Hach formazi s 0.987, as left reading: 0.042 ntu,				
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag				
LPV417.99.00002	1720E LR TURBIDITY SENSOR, HACH	04100004817	Raw Water Turbidity				
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag				
LPV417.99.00002	1720E LR TURBIDITY SENSOR, HACH	04020000688	Filter 1 Turbidity				
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag 211066				
	Notes	000100020100	21.000				
Product / Produit	Product / Produit Description	y ceil: 0.012, unit is performing within spec	Asset Tag				
4650000	00 2100P PORTABLE TURBIDIMETER	021100028695	211065				
Found, the condition of the turbidi e turbidimeter was calibrated using ablcal standards. After PM servic ad performance and condition were	Notes meter was good The turbidimeter was inspected, the e g StablCal standards (lot A1256 exp Jan23). The turbid e was completed, the as left empty cell reading of the tu e within specifications.	exterior and the optics chamber were clean limeter was verified with DI water (0.09), 10 urbidimeter was 0.01. The turbidimeter has	ed, the batteries were replaced, and 0 NTU (10.1) and 800 NTU (801) s been restored to normal operation,				
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag				
LXV440.53.10002	AISE SC W RFID (USA)	1653164	Ait-207/tit-206				
s found, the condition of the probe placed the sensor cartridge and gr as completed, the as left reading c ere within specifications.	Notes was expired cartridge and the sample readings were: asket were replaced. A new sensor code was entered, f the analyzer was 3.0 mg/L NH4-N and 9.9 K. The pro	161.3 mg/L NH4-N and 198.2 K. The prob and the electronic operation was verified u be has been restored to normal operation,	e was cleaned, inspected, and sing a test cartridge. After PM servic and its performance and condition				

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag
5440000	00 CL17 FINAL ASSEMBLY W/KITS	030800007905	Finished Water Clearwell Free
found, the condition of the CL17 lorimeter was cleaned and inspect y/L. The results were within the ac e analyzer has been restored to n	Notes was good, the firmware version was 1.4, and the instrun ted. Tubing, fittings, and the stir magnet were replaced. cceptable tolerance. After PM service was completed, ti ormal operation, and its performance and condition wer	nent reading was 1.71 mg/L. A new ma The results of a grab sample were: Df he firmware version was 1.4, the as left e within specifications.	aintenance kit was installed, and the R900 read 1.65 mg/L, analyzer read 1.7 reading of the analyzer was 1.70 mg/L
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag Raw Water Total chlorine
s found, the condition of the CL17 v lorimeter was cleaned and inspect g/L. The results were within the ac the analyzer has been restored to n	Notes was good, the firmware version was 1.4, and the instrun ted. Tubing, fittings, and the stir magnet were replaced. cceptable tolerance. After PM service was completed, the ormal operation, and its performance and condition were	nent reading was 0.86 mg/L. A new ma The results of a grab sample were: Df he firmware version was 1.4, the as left e within specifications.	aintenance kit was installed, and the R900 read 1.65 mg/L, analyzer read 0.7 reading of the analyzer was 0.86 mg/L
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag
DPD1P1	Digital pH Sensor, PEEK, Convertible	000907430223	Raw Water ph
Product / Produit DPD1R1	Product / Produit Description Digital pH Sensor, Ryton, Convertible	Serial Number / No. de Série 1603440861	Asset Tag Ait-205
BI BIRT	Notes	1003440001	All-203
Placed, and the probe was refilled ter PM was -55.92 mV/pH. The m 01 - 4.01, 7 - 7.00, 10 - 10.01. Afte he probe has been restored to norr	with standard cell solution. Following PM service, the p easurement performance of the probe following service er PM service, calibration, and verification were complet nal operation, and its performance and condition were v Product / Produit Description	Serial Number / No. de Série	Asset Tag
5940060	00 DR/2400 PORTABLE, NO POWER	020800000418	
s found the condition of the meter v ar23. Verification results were as t d2 1.291 (1.260 ±0.100), Std3 1.89 .607 ±0.050), Std2 1.187 (1.177 ±0	Notes vas good, I cleaned optic cup area, tested operation and follows: 420nm: Std1 0.667 (0.627 ±0.050), Std2 1.244 94 (1.870 ±0.150); 560nm: Std1 0.662 (0.646 ±0.050), S 0.100), Std3 1.740 (1.730 ±0.150). Unit is performing wi	d verified wavelength accuracy using DI (1.219 ±0.100), Std3 1.812 (1.795 ±0.1 Std2 1.269 (1.259 ±0.100), Std3 1.867 (thin specifications	R Check secondary standards Lot A106 [50); 520nm: Std1 0.664 (0.651 ±0.050) (1.852 ±0.150); 610nm: Std1 0.611
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag
DR2700-01	oo db DR2700 SPECTROPHOTOMETER	1297470	
s found, the condition of the instrum spection procedure was performed 2.8 Abs = 3.006, NG 9/1 @ 1.555 A G 20/2 @ 807.0 +/- 2nm = 807.0 nm	Notes nent was good and the firmware version was 1.07. The I. The optical performance was verified using LZV537 F Abs +/- 3% = 1.557, NG 5/2 @ 0.619 Abs +/- 3% = 0.62' m. After PM service, the analyzer was restored to norma	instrument was cleaned, the VIS lamp ilters. (kit 5123 exp 31Oct23) Certifica 1, NG 11/2 @ 0.320 Abs +/- 3% = 0.322 al operation and its performance and co	was replaced, and a field service titon results were as follows: KV450/3 2, HO @ 360.9 nm +/- 2 nm = 360.2 nm andition were within specifications.
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag

Notes

as found: in new condition, cleaned, inspected, replaced batteries, calibrated pn probe sn 221302562394, slope 57.92, as left reads 4ph: 4.06, 7ph: 7.01, 10ph: 10.10. also serviced LDO probe sn 072062595291, replaced ldo kit, set to factory calibration, as left reads 8.80 mg/l in air. unit performing as expected

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag
NONHACHINSTR	FIELD SERVICE USE ONLY-NonHach Serialized Instr	7107857	DEPOLOX 5 Finished Water
T Depolox chlorine analyzer: a	is found reading: 1.32 mg/l, verified calibration within 5% wi	th Hach DR900 standard	
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag
9020000	ASSY, PROBE, LDO MODEL 2, HACH	160630000026	Ait-204
found, the condition of the prob ibration code was transferred to mpleted the as left reading of the re within specifications.	ie was good,, the sample reading was 8.61 O2. The probe v the probe via RFID calibration cap. An air calibration was e probe was 7.19 O2 and the gain factor was 0.98. The pro	vas cleaned, inspected, and the sens performed, and the recorder output w be has been restored to normal oper	sor cap and gasket were replaced. A ne vas confirmed. After PM service was ration, and its performance and conditio
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag
9020000	ASSY, PROBE, LDO MODEL 2, HACH	160630000028	Ait-202
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag
9020000	ASSY, PROBE, LDO MODEL 2, HACH	160630000021	Ait-203
Product / Produit		Serial Number / No. de Série	Asset Tag
4677000	00 POCKET COLOR. CHLORINE REPL.INST	OCWA-XXX839	
Found, the control of the meter placed), sample cup, and samp fault calibration was restored, ar condary standards results as fol stored to normal operation, and perceduct / Produit	Product / Produit Description	Secial Number / No. de Série	Asset Tag
5870000	rr oo POCKET CLRMTR II CHLORINE SYSTEM	031000003585	ASSELTAG
found, the condition of the mete nple cup, and sample cell retain ibration was restored, and wave condary standards results as fol tored to normal operation, and	Notes er was good. The exterior, sample compartment, and optics ning springs. The batteries were replaced, and the battery elength accuracy was verified using PCII SpecCheck Secon Ilows: Std1: 0.23 (0.24 +/- 0.09) Std2: 0.91 (0.91 +/-0.10) , S performance and condition were within specifications.	were cleaned. The meter was inspe terminals were inspected. The opera dary Standard. (Parameter of PCII) Std3: 1.60 (1.60 +/- 0.14). After serv	ected, including the interference filter, tion was tested, the factory default Lot A1271 oct23. Verification of ice was completed, the meter was
Deadland (Deadle)		Control Number (Number (Number)	A W.
5870000	rr oo POCKET CLRMTR II CHLORINE SYSTEM	17030E324555	Asset Tag
0010000	Notes	11000L027000	
found, the condition of the meter mple cup, and sample cell retain libration was restored, and wave condary standards results as fol stored to normal operation, and	er was good. The exterior, sample compartment, and optics ning springs. The batteries were replaced, and the battery elength accuracy was verified using PCII SpecCheck Secon llows: Std1: 0.24 (0.24 +/- 0.09) Std2: 0.94 (0.91 +/-0.10), s performance and condition were within specifications.	were cleaned. The meter was inspe terminals were inspected. The opera dary Standard. (Parameter of PCII) Std3: 1.59 (1.60 +/- 0.14). After serv	ected, including the interference filter, tion was tested, the factory default Lot A1271 oct23. Verification of ice was completed, the meter was

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag						
4677000	00 POCKET COLOR. CHLORINE REPL.INST	OCWA-XXX35484	WIARTON WTP						
Notes									
As found, the condition of the meter was good. The exterior, sample compartment, and optics were cleaned. The meter was inspected, including the interference filter (replaced), sample cup, and sample cell retaining springs. The batteries were replaced, and the battery terminals were inspected. The operation was tested, the factory default calibration was restored, and wavelength accuracy was verified using PCII SpecCheck Secondary Standard. (Parameter of PC) Lot A1271 oct23. Verification of secondary standards results as follows: Std1: 0.23 (0.22 +/- 0.09) Std2: 0.85 (0.84 +/-0.10), Std3: 1.47 (1.48 +/- 0.14). After service was completed, the meter was restored to normal operation, and performance and condition were within specifications.									
Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag						

As found, the condition of the analyzer was good, the firmware version was 1.39(current) and sample reading was 0.045 NTU. The sample cell, cell compartment, and the analytical unit were inspected and cleaned. The sample vial and desiccant were replaced. A calibration using 20 NTU StablCal (Vaa961 Lot a1270 exp mar23) was performed. The gain values were within specifications. After service was completed, the TU5300 sample reading was 0.018 NTU. The analyzer has been restored to normal operation, and the performance and condition are within specifications.

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag					
Notes								

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag						
	Notes								

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag							
	Notes									

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag							
	Notes									

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag
	Notes		

	Induscontrol Inc 3170 Ridgeway D Mississauga, ON,	rive Unit 11 L5L 5R4	VEF ELECTRO	RIFICATION I D-MAGNETIC	REPORT - KHR C FLOW MEASU	ONE JREMENT
Customer Name:	OCWA- Grey Brue	ce Hub			Taylor Street, Wiart	on ON
Plant Name:	Wiarton -PS1		- Site/Plant A	ddress:		
			_			
<u>Devi</u>	ce Information			Serv	ice Information	
Make:	Khrone		Date:		June 14, 2022	
Model:	IFC10D		Report No:		CO1338-2206-20	
Order Code:	NA		Job No:		CO1338-2206	
Serial No.:	A9911651		-			
Tag:	NA DO#4		-	<u> </u>	low Details	
Job Location:	PS#1		Unit:		LPS	
Asset ID:	105372		- Curront Out	put:	0-200	
Se	nsor Details		4 mA Set P	pui.	0	
Line size:	8 Inch		20 mA Set	Point	200	
GKL:	4.505					
Mounting:	Remote		Inst. Readin	a	AS FOUND	AS LEFT
			TOTALIZER	R (m3)	7366831	7366835
			FLOW (L/S)		-0.22	-0.23
					·	
Mainte	nance Checklist			Re	emarks	
Visual Inspection:	⊠ OK	NOT OK				
Electrical Inspection:	⊡ OK	NOT OK				
Sensor Installation:	⊡ ОК	NOT OK				
Transmitter Installation:	☑ OK	□ NOT OK				
		Instrument Test Inf	ormation and Res	ults		
				1.11.17		
Set-Point as Per Calibration KIT	Calculated Flow (L/S)	Calculated O/P (mA)	UUT Display (L/S)	Measured Output (mA)	Devia (L/\$	ition S)
0	0.00	4.00	0.02	4.03	-0.0)2
А	10.78	4.86	10.91	4.96	-0.1	3
В	21.57	5.73	21.67	5.79	-0.2	0
С	43.14	7.45	43.34	7.57	-0.2	20
D	107.84	12.63	108.12	12.71	-0.2	28
	Informa	tion of Tools used for	Verification of the	Instruments		
Details	To	ol/Kit 1	Tool/	/Kit 2	Tool/I	Kit 3
Device Description:	Calibrator		Electrical Multime	eter	N/.	Α
Manufacturer:	Khrone		Fluke		N/.	A
Model No:	GS8B		179		N/.	Α
	* Refer Cal	ibration Tools Certific	ates submittal for	more Information	1	
Verification Test Result:	☑ Pa	assed		Fail	Not Ve	rified
Overall Remarks:	Measurement Wo	rks within Specificatio	on.			
Service Technician :	Pavan Patel		Stamp	o/Signature	8	/
Printed Date:	June 14, 2022	End	l of Report		Varian	10.12
		Enc			version	19-12

	Induscontrol Inc 3170 Ridgeway D Mississauga, ON,	rive Unit 11 L5L 5R4	VER ELECTRO	RIFICATION I D-MAGNETIC	REPORT - KHR C FLOW MEASU	ONE JREMENT
Customer Name:	OCWA- Grey Brue	ce Hub	Site/Diant Ac	ldroop;	Taylor Street, Wiar	ton,ON
Plant Name:	Wiarton -PS2		- Sile/Plant At	Juless.		
			_			
Devi	ce Information			Serv	ice Information	
Make:	Khrone		Date:		June 14, 2022	
Model:	IFC10D		Report No:		CO1338-2206-21	
Order Code:	NA		Job No:		CO1338-2206	
Serial No.:	A9817181					
Tag:	NA			E	low Details	
Job Location:	PS#2		Unit:		L/SEC	
Asset ID:	165385		Flow Range:		0-250	
			Current Outp	out:	4-20 mA	
Se	nsor Details		4 mA Set Po	pint	0	
Line size:	10 Inch		20 mA Set F	Point	250	
GKL:	4.544		_			
Mounting:	Remote		Inst. Reading	1	AS FOUND	AS LEFT
			TOTALIZER	(m3)	2166941	2166945
			FLOW (L/S)		-1.13	-1.03
Mainte	nance Checklist			Re	emarks	
Visual Inspection:	⊠ OK	NOT OK				
Electrical Inspection:	⊠ OK	NOT OK				
Sensor Installation:	☑ OK	NOT OK				
Transmitter Installation:	⊡ OK	NOT OK				
	1	Instrument Test Inf	ormation and Resu	llts	1	
Set-Point as Per Calibration KIT	Calculated Flow (L/S)	Calculated O/P (mA)	UUT Display (L/S)	UUT Measured Output (mA)	Devia (L/:	ation S)
0	0.00	4.00	0.05	4.06	-0.0	05
	17.00	5.09	16.83	5.01	0.1	7
B	33.99	6.18	33.23	6.07	0.7	76
	67.99	8.35	67.63	8.24	0.3	36
 	169.97	14.88	169.40	14.67	0.5	57
D : "	Informa	ation of Tools used for	r verification of the	Instruments		
Details		ol/Kit 1		Kit 2	I 00l/	Kit 3
Device Description:	Calibrator		Electrical Multime	ter	N/	A
Manufacturer:	Khrone		Fluke		N/	A
Model No:	G28R		179		N/	A
	* Refer Cal	libration Tools Certific	ates submittal for n	nore Information		
Verification Test Result:	Pa Pa	assed		Fail	□ Not Ve	erified
Overall Remarks:	Measurement Wo	rks within Specificatio	n.			
Service Technician :	Pavan Patel		Stamp	/Signature	8	/
	JUILE 14, 2022	End	of Report		Version: 1	9-12

REPORT NO: CO1338-2206-22

Verification report



Verification report flowmeter

Plant operator	Induscontrol Inc
Device information	
Location Wiarton WWTP	Device tag FIT-104
Module name Promag L	Nominal diameter DN300 / 12"
Device name Promag 400	Order code 5L4C3H-2RW5/0
Serial number KC1E9919000	Firmware version 01.05.05
Calibration	
Calibration factor 1.3133	Zero point -4
Verification information	

Operating time 2225d04h59m02s Verification ID 7	Date/time 14.06.22 09:32
Verification results	
Overall result	Passed
Detailed results	See next page

Overall result: Result of the complete device functionality test via Heartbeat Technology

Notes

Validity of the verification report is only given:

For devices with the Heartbeat Verification enabled software option

For verifications, carried out by the Endress+Hauser Service, or an authorized Endress+Hauser service provider

14.06.22

Date

Inspectors signature

Operator's signature

Verification report



Verification report flowmeter

Serial number: KC1E9919000

Verification detailed results Verification ID 7

Sensor	\checkmark	Passed	
Coil current shot time	\checkmark	Passed	
Coil hold voltage	\checkmark	Passed	
Coil current	\checkmark	Passed	
Sensor electronic module	\checkmark	Passed	
Reference voltage	\checkmark	Passed	
Linearity of electrode measuring circuit	\checkmark	Passed	
Offset of electrode measuring circuit		Passed	
I/O module	\checkmark	Passed	

REPORT NO: CO1338-2206-23

Verification report



Verification report flowmeter

Plant operator	Induscontrol Inc
Device information	
Location	Device tag
Wiarton WWTP	FIT-105
Module name	Nominal diameter
Promag L	DN200 / 8"
Device name	Order code
Promag 400	5L4C2H-3K91/0
Serial number	Firmware version
KC1E9819000	01.05.05
Calibration	
Calibration factor	Zero point
1.0880	0
Verification information	

Operating time 2224d21h29m05s Verification ID 9	Date/time 14.06.22 09:40
Verification results	
Overall result	Passed
Detailed results	See next page

Overall result: Result of the complete device functionality test via Heartbeat Technology

Notes

Validity of the verification report is only given:

For devices with the Heartbeat Verification enabled software option

For verifications, carried out by the Endress+Hauser Service, or an authorized Endress+Hauser service provider

14.06.22

Date

Inspectors signature

Operator's signature

Verification report



Verification report flowmeter

Serial number: KC1E9819000

Verification detailed results Verification ID 9

Sensor	\checkmark	Passed	
Coil current shot time	\checkmark	Passed	
Coil hold voltage	\checkmark	Passed	
Coil current	\checkmark	Passed	
Sensor electronic module	\checkmark	Passed	
Reference voltage	\checkmark	Passed	
Linearity of electrode measuring circuit	\checkmark	Passed	
Offset of electrode measuring circuit	\checkmark	Passed	
I/O module	\checkmark	Passed	

REPORT NO: CO1338-2206-24

Verification report



Verification report flowmeter

Plant operator	Induscontrol Inc
Device information	
Location Wiarton WWTP	Device tag FIT-301
Module name Promag L	Nominal diameter DN100 / 4"
Device name Promag 400	Order code 5L4C1H-40D6/0
Serial number KC1EF119000	Firmware version 01.05.05
Calibration	
Calibration factor 1.3799	Zero point -4
Verification information	

Operating time 2225d14h25m28s	Date/time 14.06.22 09:50
Verification ID 7	
Verification results	
Overall result	Passed
Detailed results	See next page

Overall result: Result of the complete device functionality test via Heartbeat Technology

Notes

Validity of the verification report is only given:

For devices with the Heartbeat Verification enabled software option

For verifications, carried out by the Endress+Hauser Service, or an authorized Endress+Hauser service provider

14.06.22

Date

Inspectors signature

Operator's signature

Verification report



Verification report flowmeter

Serial number: KC1EF119000

Verification detailed results Verification ID 7

Sensor	\checkmark	Passed	
Coil current shot time	\checkmark	Passed	
Coil hold voltage	\checkmark	Passed	
Coil current	\checkmark	Passed	
	_		
Sensor electronic module	\checkmark	Passed	
Reference voltage	\checkmark	Passed	
Linearity of electrode measuring circuit	\checkmark	Passed	
Offset of electrode measuring circuit	\checkmark	Passed	
I/O module	\checkmark	Passed	

VERIFICATION REPORT- PARSHALL FLUME OPEN CHANNEL FLOW MEASUREMENT

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

Customer Name:	OCWA-Grey Bruce Hub		_	Site/Plant Address:	59 Park St,
Plant Name:	STP		-	Site/Fiditi Address.	Ripley, Ontrario N0G 2R0
			-		
	Device Information			Se	ervice Information
Make:	Milltronics			Date:	June 14, 2022
Model:	Multiranger Plus		-	Report No:	CO1338-2206-25
Order Code:	N/A		-	Job No:	CO1338-2206
Serial No.:	050W023466		-		
Tag:	NA		-		Flow Details
Job Location:	Final Effluent Discharge		-	Unit:	m3/h
			-	Flow Range:	0-591.9 m3/h
Inst. Reading	AS FOUND	AS LEFT		Current Output:	4-20 mA
TOTALIZER (m3)	6153	6153		4 mA Set Point	0 m3/h
FLOW (m3/h)	137.9	137.2	-	20 mA Set Point	591.9 m3/h
, , ,	Maintananaa Chaaklist		- 	Bon	
Visual Increation:				Keil	Idiks
Visual Inspection.					
Electrical inspection.	⊠ UK				
		Programming Para	meter of Instru	ument	
Parameter	Discription	Value	Parameter	Discription	Value
F0	Access Code	2.71828	P40	Parshall Flume	1.00
P1	Dimension Unit (cm)	2.000	P41	flow rate (per hr)	3.00
P2	Mode	5	P42	OCM exponent	1.50
P3	Empty Distance	50.38 cm	P43	Flume dimension	0
P4	Span	20 cm	P45	Maximum head	20 cm
P5	near blanking	30	P46	Maximum flow rate	591.9 m3/hr
-					
	li	nstrument Test Info	ormation and R	Results	
Input (%)	Calculated Flow(m3/h)	Calculated Input (mA)	Flow on Panel Meter Display (m3/h)	UUT Measured Output (mA)	Deviation (%)
0	0.00	4.00	0.00	4.00	0.00
25	147.98	8.00	148.07	8.05	0.00
50	295.95	12.00	294.87	11.96	0.01
75	443.93	16.00	442.95	15.94	0.01
100	591.90	20.00	591.76	19.99	0.00
	Information	n of Tools used for	Verification of	the Instruments	·
Device Description:	Manufacture	er		Model	Serial No:
Electrical Multimeter	Fluke		179		As per Provided
Verification Test Result:	☑ Passed			Fail	Not Verified
Overall Remarks:	Program parameters verified	. Measurement woi	rks as per spe	cification.	
Service Technician :	Pavan Patel		-	Stamp/Signature	<i>Q</i> /
Printed Date:	June 14, 2022			Gramp/Orginature	0
		End of Report		Version: 19-12	



Appendix C Community Complaints


WIARTON WWTL Logbook							
Entry Time	Label	Entry Text	Operator	Created Time			
2022-01-22 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 08:20-11:00 OIC: Billy Shearer (bshearer) 14:00-15:30 OIC: Billy Shearer (bshearer)	Billy Shearer	Jan 22, 2022 3:26 PM			
2022-01-22 11:21:00		Preformed system checks at PS1, PS2,MBBR, blower and filter bindings.	Billy Shearer	Jan 22, 2022 11:23 AM			
2022-01-22 15:26:00		Called for blocked service at 448 Scott street. Cleared blockage then inspected with camera. Found root infiltration, will need to be addressed.	Billy Shearer	Jan 22, 2022 3:28 PM			



WIARTON WWTL Logbook							
Entry Time	Label	Entry Text	Operator	Created Time			
2022-03-16 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 07:00-15:30 Duty OIC: Daniel Caesar (dcaesar) 07:00-11:03 OIT: Meet Patel (mpatel)	Meet Patel	Mar 16, 2022 8:10 AM			
2022-03-16 08:11:00	Facility Checks	System checks and operational readings complete at pumping station - #1, - #2, blower building, filter building and MBBR building. Reviewed daily report and drained compressors. Cleaned the DO probe for Cell 1 at MBBR. pH sensor under maintenance alarm at MBBR.	Meet Patel	Mar 17, 2022 8:07 AM			
2022-03-16 11:45:00	Facility Checks	DO's, pH, temperature taken from lagoon cells 1, 2 and 3.	Daniel Caesar	Mar 16, 2022 11:48 AM			
2022-03-16 16:00:00	Maintenance	Received a call for 495 Scott St for sanitary sewer back up. Restored flow for homeowner. Was unable to see cause of blockage due to sitting water. Will follow up tomorrow.	Daniel Caesar	Mar 16, 2022 4:08 PM			
2022-03-17 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 07:00-15:30 Duty OIC: Daniel Caesar (dcaesar) 07:00-11:00 OIT: Meet Patel (mpatel)	Meet Patel	Mar 17, 2022 7:53 AM			
2022-03-17 08:06:00	Facility Checks	System checks and operational readings complete at pumping station - #1, - #2, blower building, filter building and MBBR building. Reviewed daily report and drained compressors. Cleaned the DO probe for Cell 1 at MBBR.	Meet Patel	Mar 17, 2022 8:07 AM			
2022-03-17 09:30:00	Maintenance	Power auger and camera sewer lateral at 495 Scott St. cleared blockage but 1 meter section of no corrode pipe still needs to be replaced.	Daniel Caesar	Mar 17, 2022 2:04 PM			
2022-03-17 12:30:00	Maintenance	Adjustment made to cells 1,2 and 3, air flow. Will monitor for next little while.	Daniel Caesar	Mar 17, 2022 2:05 PM			
2022-03-17 14:00:00	Maintenance	Bar screen cleaning complete at PS 1, with Cole H.	Daniel Caesar	Mar 17, 2022 2:06 PM			



WIARTON WWTL Logbook									
Entry Time	Label Entry Text Operator								
2022-05-26 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 07:00-15:30 Duty OIC: Daniel Caesar (dcaesar) 07:00-10:00 OIT: Meet Patel (mpatel) 18:30-04:00 OIC: Billy Shearer (bshearer)	10-23:59 ORO: James Learn (jlearn)Billy Shearer10-15:30 Duty OIC: Daniel Caesar (dcaesar)210-10:00 OIT: Meet Patel (mpatel)730-04:00 OIC: Billy Shearer (bshearer)7						
2022-05-26 07:40:00	Facility Checks	System checks and operational readings complete at pumping station - #1, - #2, blower -, MBBR - and filter - building. Reviewed daily report.	Meet Patel	May 26, 2022 12:48 PM					
2022-05-26 10:17:00		Called in by community complaint of sewage seeping up from force main. Drained force main and repair with 12" repair clamp.	Billy Shearer	May 27, 2022 10:33 AM					
2022-05-26 11:00:00	Sampling	By weekly samples collected for sewage. Raw and MBBR effluent was collected due to Filter Building being offline.	Daniel Caesar	May 26, 2022 11:22 AM					
2022-05-26 14:30:00	Maintenance	Bar screen cleaning complete at PS 1.	Daniel Caesar	May 26, 2022 2:30 PM					



WIARTON WWTL Logbook						
Entry Time	Label	Entry Text	Operator	Created Time		
2022-06-09 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 07:00-15:30 Duty OIC: Daniel Caesar (dcaesar) 09:00-12:00 OIT: Meet Patel (mpatel)	Meet Patel	Jun 9, 2022 1:09 PM		
2022-06-09 10:00:00	Inspection	Performed a sewer lateral camera inspection for Mary street project.	Meet Patel	Jun 9, 2022 1:11 PM		
2022-06-09 11:00:00	Community Complaint, Inspection	Addressed sewer backup at 495 Scott street. Performed a camera inspection and removed the blockage.	Meet Patel	Jun 9, 2022 1:14 PM		
2022-06-09 12:00:00	Facility Checks	System checks and operational readings complete at pumping station -#1, -#2, blower-, MBBR- and filter- building. Reviewed daily report.	Meet Patel	Jun 9, 2022 1:09 PM		



WIARTON WWTL Logbook										
Entry Time	Label	Entry Text	Operator	Created Time						
2022-07-10 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 09:00-11:00 Duty OIC: Billy Shearer (bshearer) 21:45-00:00 OIC: Billy Shearer (bshearer)	Billy Shearer	Jul 11, 2022 6:05 AM						
2022-07-10 06:06:00		Called to 489 Frank st for blocked sewer. Got camera in to 70 ft, then it goes black. Tried push snake unsuccessfully.	d to 489 Frank st for blocked sewer. Got camera in to 70 ft, t goes black. Tried push snake unsuccessfully.							
2022-07-10 09:37:00		Performed system checks at PS1,PS2, MBBR, blower and filter buildings, cleaned cell 2 DO sensor	Billy Shearer	Jul 10, 2022 9:38 AM						
2022-07-11 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 07:00-08:00 OIT: Meet Patel (mpatel) 07:00-15:30 Duty OIC: Daniel Caesar (dcaesar) 11:30-15:30 OIT: Meet Patel (mpatel)	Meet Patel	Jul 11, 2022 3:16 PM						
2022-07-11 07:45:00	Facility Checks	System checks and operational readings complete at pumping station -#1, -#2, blower-, MBBR- and filter- building. Reviewed daily report and drained compressors.	Meet Patel	Jul 11, 2022 8:14 AM						
2022-07-11 07:55:00	Maintenance	Cleaned DO probe for cell #2 and adjusted air flow to cells at MBBR. Cleaned blower air intake screen.	Meet Patel	Jul 11, 2022 8:15 AM						
2022-07-11 13:00:00	Maintenance	Corrected sanitary sewer blockage at 489 Frank St. Fiber optics conduit hit the sewer lateral and collapsed it. Replaced approx 4 ft of pipe. flow has been restored.	Daniel Caesar	Jul 11, 2022 1:11 PM						
2022-07-11 15:15:00	Maintenance	Locate sanitary sewer main on Mary street between Brown and Hunter. Sanitary sewer laterals are marked.	Daniel Caesar	Jul 11, 2022 3:20 PM						



WIARTON WWTL Logbook							
Entry Time	Label	Entry Text	Operator	Created Time			
2022-07-24 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 07:00-15:30 Duty OIC: Andrew Bellamy (abellamy) 08:00-09:00 OIT: Meet Patel (mpatel) 16:35-21:30 OIT: Meet Patel (mpatel)	Meet Patel	Jul 24, 2022 9:33 PM			
2022-07-24 09:00:00	Facility Checks	System checks and operational readings complete at pumping station -#1, -#2, blower-, MBBR- and filter- building. Reviewed daily report and drained compressors.	Meet Patel	Jul 24, 2022 8:36 PM			
2022-07-24 21:30:00	Call-in, Community Complaint, Wiarton WWTL	Received a call for sewer backup at 244 Division street. Arrived on site and talked to homeowner. Pre inspection performed by plumber but exact location of blockage was unknown. Removed the toilet and accessed the sewer lateral for camera inspection. Found 2 clean outs installed. Found a thick patch of FOG at the junction of lateral and sanitary. Cleaned and restored access to sanitary.	Meet Patel	Jul 24, 2022 9:41 PM			



WIARTON WWTL Logbook							
Entry Time	Label	Operator	Created Time				
2022-08-05 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 07:00-15:30 Duty OIC: Daniel Caesar (dcaesar)	Daniel Caesar	Aug 5, 2022 2:19 PM			
2022-08-05 11:00:00	Facility Checks	Daily operations complete at PS 1, PS 2, Blower Building, MBBR and Filter Building. Review daily report and drain compressors.	Daniel Caesar	Aug 5, 2022 2:20 PM			
2022-08-05 17:35:00	Call-in	Received call for 429 Claude St, for a backed up sewer. Homeowner wanted the lateral inspected. Responded to call and camera lateral. Pipe is pulled from coupling where municipal meets private. Offset pipe is right inline with new fiber optics conduit.	Daniel Caesar	Aug 5, 2022 5:36 PM			



WIARTON WWTL Logbook								
Entry Time Label Entry Text Operator Creat								
2022-10-17 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 07:00-15:30 Duty OIC: Andrew Bellamy (abellamy) 07:00-15:30 OIT: Meet Patel (mpatel)	Meet Patel	Oct 17, 2022 10:31 AM				
2022-10-17 00:00:00	Community Complaint	Resident at 307 Berford street concerned about sewer backup. Sewer not backing up at this moment.	Meet Patel	Oct 17, 2022 10:32 AM				
2022-10-17 09:00:00	Facility Checks	System checks and operational readings complete at pumping station -#1, -#2, blower-, filter-, and MBBR building. Reviewed daily report and drained compressors.	Meet Patel	Oct 17, 2022 2:30 PM				

From:	Leo-Paul Frigault
To:	Brianna Collins: Karen Cameron (karen.cameron@southbrucepeninsula.com)
Cc:	Matthew Fraser: Daniel Caesar: Billy Shearer: Karla Young
Subject:	Sewer lateral blockage - 509 Berford Street Wiarton
Date:	November-22-22 4:23:31 PM
Attachments:	509 Berford Sanitary Drawing Overview.pdf

Good afternoon Brianna and Karen,

The Town of South Bruce Peninsula reported a sewer backup occurring at 509 Berford Street this morning at 11:40 AM. Operators contacted the owners who confirmed that a plumber had already been onsite and determined that the blockage was a municipal issue. Operators gathered tools and equipment and arrived on site at approximately 12:15 PM and exposed the sewer cleanout located on the North side of the building (see drawing attached). Operators then pushed the sewer camera and lockage at approximately 52 feet from the cleanout (under municipal concrete sidewalk. The sewer jush rod was then used to dislodge the soft blockage and re-establish sewer flow. The sewer flateral was then re-inspected using the sewer camera and confirmed that soft blockage was cause by root infiltration at a pipe joint. Operators then used to heave the power auger to clear remaining roots and soft blockage and re-inspected the lateral using the sewer camera.

Regards,

Leo

Léo-Paul Frigault

Senior Operations Manager Grey Bruce Hub 897 Bayview Street Wiarton, ON TEL: 519 534 1610 CELL: 519 379 2225



WIARTON WWTL Logbook							
Entry Time	Label	Entry Text	Operator	Created Time			
2022-11-23 00:00:00		00:00-23:59 ORO: James Learn (jlearn) 07:00-15:30 Duty OIC: Daniel Caesar (dcaesar) 07:00-15:30 OIC: Matthew Fraser (mfraser2)	Matthew Fraser	Nov 23, 2022 7:09 AM			
2022-11-23 09:15:00	Facility Checks	Daily operation of plant and readings complete at PS 1, PS 2, Blower Building, MBBR and Filter Building. Review daily report and drain compressors.					
2022-11-23 11:00:00	Maintenance	Restored flow for 525 Frank St sewer later. Offset pipe at the clean out causing the blockage. Used mechanical auger and camera sewer later to the main to verify blockage was removed. ALL OK.	Daniel Caesar	Nov 23, 2022 11:12 AM			
2022-11-23 12:30:00	Maintenance	Cleaned bar rack at PS1 with D. Caesar and C. Hutchinson.	Matthew Fraser	Nov 23, 2022 12:53 PM			
2022-11-23 14:45:00	Maintenance	Cleaned UV sensor at Filter Building. Adjustment made to Filter Building influent valve. ALL OK.	Daniel Caesar	Nov 23, 2022 2:51 PM			



Appendix D Effluent By-Pass Reports

From:	Karla Young
To:	<u>"Graham, Robert G. (MECP)";</u> "Smith, Mark (MECP)"
Cc:	Leo-Paul Frigault; Camille Leung; Mike Mortimer
Subject:	2022 Q1 - Bypass Overflow Event Summary - Wiarton WWTP (110000819) - Town of South Bruce Peninsula
Date:	May-13-22 1:14:00 PM
Attachments:	2022.03.28 WiartonWPCP Bypass of MBBR_E1#6665-CCXPUN.pdf LabResults.pdf

Good Afternoon,

Under ECA 6045-ARDJS7, a quarterly summary report shall be submitted for Bypass Event(s) and Overflows that occur at the Wiarton Wastewater Treatment Plant.

Bypass Events

The ECA requires the submission of a summary report of the Bypass Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the beginning of the Bypass;
- the location of the Bypass and the treatment process(es) bypassed;
- the reason(s) for the Bypass;
- the date and time of the end of the Bypass;
- the measured or estimated volume of Bypass;
- Samples collected;
- Assessment of the impact of the Event(s) on Final Effluent, plant operation and the receiver;
- Planned mitigation strategies, as appropriate.

	Tir	ne	Duration	Volume	Treatment	Samples	Reason	Impact of Event Mitigation Raw sewage discharge from the	
Date	Start	End	HH:MM	(M ³)	Bypassed Collected	ior Bypass	Impact of Event	Miligation	
March 28-April 5, 2022	March 28 14:20 PM	April 5 14:30 PM	72 Hours	21, 062 m3	MBBR	Yes	The screens between MBBR cell 1 and 2 were plugged. The MBBR was shut down and bypassed before it spilled over.	Raw sewage discharge from the (3)-cell MBBR System bypass was directed to the (3)- cell waste stabilization lagoon system which provides effluent polishing. Flow from the lagoons was then directed into the sand filtration system and through the UV disinfection system before it was released into Colpoy's Bay.	The screens and the cells of the MBBR were cleaned before being put back online

Overflow Events

The ECA requires the submission of a summary report of the Overflow Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year:

February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the beginning of the Overflow;
- the location of the Overflow and the receiver and disinfection status of the Overflow;
- the reason(s) for the Overflow;
- the date and time of the end of the Overflow;
- the measured or estimated volume of Overflow;
- the mitigation measures taken;
- Samples collected;
- Assessment of the impact of the Event(s) on plant operation and the receiver;
- Planned mitigation strategies, as appropriate.

Data	Tir	ne	Duration	Volume	Dessiver	Disinfection	Samples	Reason	Impact	Mitigation:
Date	Start	End	HH:MM	(M ³)	Receiver	Overflow	Conected	Overflow	of Event	Planned
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Thanks,

Karla

Karla Young Process & Compliance Technician Grey-Bruce/Bruce Hubs Georgian Highlands Region **Ontario Clean Water Agency** <u>kyoung@ocwa.com</u> (519) 374 - 5782

Ontario Clean Water Agency Environmental Incident Report

Facility ID:	5620	EIncidentRep ort
Facility Name:	Wiarton Wastewater Treatment Lagoon	
Address:	441048 Elm St	
City:	Wiarton	
Province:	Ontario	
Postal Code:	NOH 2TO	
Date of Occurrence:	03/28/2022	
Time of Occurrence:	02:20:00 PM	
• Level 1 Contingence	y O Level 2 Contingency O Level 3 Contingency Click here To Sho	ow the Definitions
Incident affected: A	Ir 🖄 Water 🗋 Land 🛄 Nothing	
What was discharged o Chlorine Sodium Hypochlori Calcium Chloride Aluminum Compou Arsenic Fluoride	or emitted? Dil/Diesel/Gas te Odours nds (Specify in Other) Untreated or partly treated sewage Odours Water Iron Coagulants	
	Other:	
<u>If this was a discharge, sp</u>	<u>ill or emission</u>	
If a liquid, approximate	ely what quantity was released?: <u>21062000</u> Litres	
If a gas, approximately	what quantity was released?:	

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

What was the source of release?:

Needed to bypass MBBR (Moving Bed Biofilm Reactor) due to screens between cell 1 and 2 plugging up to avoid a spill.

Where did the release go?:

Raw sewage discharge from the (3)-cell MBBR System bypass was directed to the (3)-cell waste stabilization lagoon system which provides effluent polishing. Flow from the lagoons was then directed into the sand filtration system and through the UV disinfection system before it was released into

Colpoy's Bay.

If it entered a watercourse: \bigcirc Yes \bigcirc No

If it went off site: \bullet Yes \bigcirc No

Duration of the release?: <u>4 days and then the effluent was shut down and the sewage retained in the lagoons.</u>

Is the release now stopped?: \bigcirc Yes \bigcirc No

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

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

Action(s) Taken

What actions were taken to control the incident?

Raw wastewater flow was diverted from the MBBR process to allow for MBBR cells inspection and flow restriction remediation.

What actions have been taken to remediate the incident?

MBBR cells were pumped down and the screens between cells 1, 2 and 3 were cleaned. Air flow to all cells was maintained during the process. Lower wastewater levels in cell 1 allowed for more media movement and eventually air flow to diffusers was re-established. Effluent to Colpoy's Bay was stopped on Thursday, March 31st and wastewater was retained in lagoons until MBBR back online. Samples were taken daily while releasing effluent. Wastewater went through all other processes before being released.

Was this a reportable spill or discharge?: \bigcirc Yes \bigcirc No

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

SAC was called at 14:28 pm on March 28, 2022 and was reported to Akiko.

Was it reported to the MOE district office?: \bullet Yes \bigcirc No

If "Yes", which office/location and who was the contact?: A voicemail outlining the issue was left with Bob Graham from the Owen Sound MECP Regional office.

Was it reported to MOE SAC?: \bigcirc Yes \bigcirc No

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

SAC was called at 14:28 pm on March 28, 2022 and was reported to Akiko.

Was it reported to Municipality?: \bullet Yes \bigcirc No

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

It was reported to Lara Widdifield (Public Works Manager) at the Town of South Bruce Peninsula at 13:23 pm.

External Assistance/Involvement

Was corporate or area office assistance requested?: \bigcirc Yes $ullet$ No
If "Yes", was it received?: \bigcirc Yes \bigcirc No
Was external emergency assistance requested?: \bigcirc Yes $ullet$ No
If "Yes", from who?: Fire Department Ambulance or Hospital Police MOE Canutec Coast Guard Municipality
Other:
Was there any media involvment?: \bigcirc Yes $ullet$ No
If "Yes", who?:
Was the public affected?: \bigcirc Yes $lacksquare$ No
If "Yes", how?:
Updated By: Karla Young 04/19/2022 10:35:13 AM

Comments:

March 28, 2022 -Bypass started at 14:20pm when MBBR was shut down -needed to shutdown MBBR and bypass process due to the screen between cell #1 and cell #2 of MBBR being plugged and concern of cell #1 overflowing and causing a spill March 29, 2022 -draining of MBBR cells to the lagoons -was thought that diffuser was broken and needed to be replaced in cell #1 (turned out that since the screens were blocked that was causing a heavy blanket of sediment on top of the diffusers which then, in turn, caused the media to be immobile) March 30, 2022 -still draining the cells and talked to manufacturer about issues -determined it would not be fixed until early next week -updated SAC (Jon Kowba) at 14:27pm about MBBR still being down and would not be fixed until next week March 31, 2022 -after discussions with Bob Graham at MECP decided to shut down effluent flow and retain sewage in lagoons in order to have relief from sampling over weekend due to shipping constraints -shut down effluent flow April 5, 2022 -MBBR put back online at 12:50pm -Volume of bypass calculated at 21,062 m3 -updated SAC at 14:17pm that MBBR was back online and normal operations had resumed

-sent email to Bob Graham at MECP to let him know that normal operations had resumed April 19, 2022 -all sample results were recieved

Techny Intern Wit 1.3 UL Bank Same control sport restor Data The Proof The Proof The Proof Data Data The Proof The Proof The Proof The Proof Data The Proof The Proof The Proof The Proof Data The Proof The Proof The Proof The Proof		Waterworks/Project # 110	000819				C of C LIMS N	0: 1	L	5-50	2					
Op/: 6 55:0 Difference Transmitter (clinity) Transmiter (clinity) <th< th=""><th></th><th>Facility Name Wiarton</th><th>WWTP</th><th></th><th></th><th></th><th>Laboratory Secti</th><th>uo</th><th>AAR 2</th><th>9 Z0</th><th>77</th><th></th><th>Samp</th><th>ole condition upon receipt</th><th></th><th></th></th<>		Facility Name Wiarton	WWTP				Laboratory Secti	uo	AAR 2	9 Z0	77		Samp	ole condition upon receipt		
Open to Interformer (it Open to Interformer (it Interpret (it Interpret (it Interpret (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (it Interformer (Org. # 5620					Date Rec'd	1				The	Te Rec'd:	1	Initials	All I
Memory of paradimentation of the production of the production of the product of th		Quote # Attached Parameter List	N	Yes			4	emperatu	re Upon	Receipt		11		°c		
Total Turnund		Identification of Regulation under whit	ch the sample(s) fall: No Requireme	ant to Repo	rt Sampl	e Results L	Inder Any Regulation	for Waste	ewater 7	reatmen						
		Requested Turnaround Time:		A B	p,ba	24-48	3 h X			5-7d			7-104	Other Speci	ify:	
Order: The contraction of the contractin of the contractin of the contraction of the contraction		Report to: Megan Edney	Data Transfer C	ontact: Me	gan Edne	A	Invoice To: Ontar	io Clean	Water A	gency				Laboratory: SGS Lakefie	eld Researc	h Ltď
Option: 013737300 (13737300) 0139367300 (13737300) 0139367300 (13737300) 0139367300 (13737300) 0139367300 (13737300) 0139367300 (13737300) 0139367300 (13737300) ation	dress:	18 Caroline Street Southampton, ON NOH 2L0	18 Caroline Stre Southampton, C NOH 2L0	Set			136 Main St. E Shelburne, ON L9V 3K5	24						185 Concession St. Lakefield, ON KOL 2H0		
Image: contract of the control Name Image: contract of the control Name Image: contract of the control Name Simple Location Name Sample Location Name Data Time Contract of the control Name Simple Location Name Sample Location Name Data Time Contract of the control Name Simple Location Name Sample Location Name Data Time Contract of the control Name Simple Location Name Data Time Contract of the control Name Data A Time Simple Location Name Data A Time Contract of the control Name Data A Time Simple Location Name Data A Time Contract of the control Name Data A Time Data A Time Data A Time Contract of the control Name Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time Data A Time <td>ephone: c</td> <td>519-374-5782 (519) 797-3080</td> <td>519-374-5782 (519) 797-3080</td> <td></td> <td></td> <td></td> <td>(519) 925-1938 (519) 925-0322 20005thishlands</td> <td>on chinology</td> <td>E</td> <td></td> <td></td> <td></td> <td></td> <td>705-652-2000 705-652-6365 carrie nreenlaw@sns.co</td> <td>6</td> <td></td>	ephone: c	519-374-5782 (519) 797-3080	519-374-5782 (519) 797-3080				(519) 925-1938 (519) 925-0322 20005thishlands	on chinology	E					705-652-2000 705-652-6365 carrie nreenlaw@sns.co	6	
Andread in Market wave Sample (1) Contact of (1) Contact o	lait:	medney2@ocwa.com	meaneyz(aocw.	a.com	and to	1 liami lati	apwesmigniarios	@OCWA.CI		and on the second				Comment		
Name manual m	-	Sample			CI Kesic	(mg/L)	P	Ľ	2	ramaters		-	-		0	ЭС
Eff Pin-Sacrate Weil Weil <thw< td=""><td>Station Actonym</td><td>Sample Location Name</td><td>Date & Time Collected MAR 2 8 2022</td><td>aeltto8 to #</td><td>Free</td><td>Combined</td><td>(مروس) ebneqau2 (Sotal Sotal Sotal</td><td>Phosphorous Phosphorous</td><td>CBOD*</td><td>TKN</td><td>sinommA letoT negoniN</td><td>Nitrite</td><td>Nitrite + Nitrate</td><td></td><td></td><td>OM of bsolgU</td></thw<>	Station Actonym	Sample Location Name	Date & Time Collected MAR 2 8 2022	aeltto8 to #	Free	Combined	(مروس) ebneqau2 (Sotal Sotal	Phosphorous Phosphorous	CBOD*	TKN	sinommA letoT negoniN	Nitrite	Nitrite + Nitrate			OM of bsolgU
Eth Ethicate (Composite) R K <td>Eff Eff</td> <td>- Effluent (Grab)</td> <td>14:25</td> <td>1</td> <td></td> <td></td> <td>100</td> <td></td> <td>×</td> <td></td> <td></td> <td></td> <td></td> <td>$pH = \underbrace{\Theta_{u} \underbrace{\Psi 2}}{Temperature (C) = \underbrace{\Omega}$</td> <td>100</td> <td>No No</td>	Eff Eff	- Effluent (Grab)	14:25	1			100		×					$pH = \underbrace{\Theta_{u} \underbrace{\Psi 2}}{Temperature (C) = \underbrace{\Omega}$	100	No No
Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationship Immediate relationsh					14	- Million	>	>	>	>	>	>	~		7	es X Yes
Image: Second		ensoduo-) iuenne)		1	1 33	10.10			-		<		< .			No
Image: Second and the second and th	-								-						* -	Ves No
The control of the conter of the cont of the control of the contr															× -	
Implet Name: David Decision Sampler Signature: Mean Weight	-								-						*	PS Ves
Imple Name:	-							1							7-	PS Ves
mpler Name: David Caesare Sampler Signature: Sampler Signature: Non- mpler Name: David Caesare Sampler Signature: Sampler Signature: Non- mpler Name: David Caesare Sampler Signature: Sampler Signature: Non- store David Caesare Intervention Sampler Signature: Sampler Signature: Non- store David Caesare Intervention Non- Non- Non- store David Caesare Intervention Non- Non- Non- store David Caesare Intervention Non- Non- Non- store David Caesare Sampler Signature: Non- Non- Non- store David Caesare Sampler Signature: Non- Non- Non- store David Caesare David Caesare Sampler Signature: Non- Non- store David Caesare David Caesare David Caesare David Caesare Store David Caesare David Caesare David Caesare David Caesare Store David Caesare David Caesare David Caesare David Caesare Store David Caesare David Caesare David Caesare David Caesare<	-				-										× -	to No
Thilder Name: Dav CAESAR Sampler Signature: Dev Cancer International accordant Dis Version Distribution Distribution <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>* -</td><td>as No</td></td<>															* -	as No
tian Aconym: Cell - Call Canlents, Dis - Disinfection, Down-Downstream. Eft - Final Effluent, PrBy-Primary Bypass, Raw - Raw Sowage, ScBy - Secondary Bypass, Up - Upstream, Weil, Aer - Aenalion, Bas - Biosolids Interioung Weil, Aer - Aenalion, Bas - Biosolids Interioung Bag - Biosolids Interious Bag - Biosolids Interious Bas - Biosolids Interior B	npter Name.	Dav C	RESAR	Sai	npler Sig	nature:	Dan	Cal	2004							
walked down mus priv PL 6080 27629930	ation Acronym: stion, Bsd - Blo ordary Ettluent,) - Combined St	Cell - Coil Contents, Dis - Disinfection, Down - Downs solids see, digestion, Bps - Blosolids pri super, Biss - TWAS - Thickened Wasta Activated Studgo, WAS - twer Overflow, SSO - Sanitary Sever Overflow	stream, Eff - Final Effluent, PrBy - Primary By Blosofids sec super, Bsiq - Blosofids sludge. Waste Activated Studge, IndW - Industrial W	pass, Raw - F quality, Bsoq astewater, PS	daw Sewag Biosolids Stn - Pump	e, ScBy - Sec soll quality, DA Stn, Sept - Se	ondary Bypass, Up - Upstn KF - Dissolved Air Floatation ptage, Lcht - Leachale, Pr1	sam, Well - I, Grit - Prim r - Primary	Monitoring ary Treatr Treatment	Well, Aer nent/Grit, F ReAr - Rt	- Aeration PiEl - Prim Haeration,	n, Brs - Bio ary Effluer Tert - Ter avision #6	solids-raw s t, RAS - Rel fary Treatm	ludgo. Bth - Biosolids thickening turn Activated Sludge, SBR - Se ent, Alla - Actiflo, TeBy - Tertian	, Bpd - Biosoli condary Treat / Bypass, Hok Re	ds primary menUSBRs, S - Holding Tau vised: 2018-0
			worlden down	- the	501	ð	RIN	A C	HC	508	0_	27	3	9930	-	

10.50 NK



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

30-March-2022

Date Rec.: 29 March 2022 LR Report: CA15785-MAR22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	9: Eff Eff-Effluent (Grab)
Sample Date & Time					28-Mar-22 14:25
Temperature Upon Receipt [°C]					11.0
Field pH [no unit]					8.42
Field Temperature [celcius]					2.1
E. Coli [cfu/100mL]	29-Mar-22	10:58	30-Mar-22	09:43	0

4 Underen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

0002845939

Page 1 of 1 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

Fielding Nature Wild and Tohn WUTP Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near ordinal section Distant Same and too near ordinal section Same and too near	Fieldly Name Windling Windling Windling Windling Windling Windling Windling Eventy	1	Waterworks/Proj	iect # 11	0000819					S	of C LIM	S No:	2	1 I	21	3					l		
)	Facility Name Org. #	Wiarton 5620	WWTP					<u> </u>	aboratory S Date R	section ec'd:	MAR 3	0 20	1 12)	Time	Sample Rec'd:	conditio	n upon receip	ot Initials	3	
Monthly control from any control of the formation of the production of th	Monthly for the formation of		Quote # Attached Parameter	r List	No		Yes					Tempe	srature L	Jpon Re	ceipt	1	0	0	ç				
Tenune time time time time time time time tim	Tenanot Transmission Tenanot Transmission <td></td> <td>Identification of Reg</td> <td>julation under w</td> <td>hich the sample</td> <td>a(s) fall: No Requirem</td> <td>ant to Rep</td> <td>ort Sam</td> <td>ole Resu</td> <td>Its Under</td> <td>Any Regula</td> <td>tion for</td> <td>Vastewa</td> <td>ter Trea</td> <td>ment</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Identification of Reg	julation under w	hich the sample	a(s) fall: No Requirem	ant to Rep	ort Sam	ole Resu	Its Under	Any Regula	tion for	Vastewa	ter Trea	ment		-						
Territor	Technic Internet Technic Internet<		Requested Turn	naround Time:			0.0	App. Req'd	N	4-48 h	M X	ちま			P2-1			7-10d	Gt	er Spe	cify:		
	Option: Description: Description: Description: Description: Description: Description: intermediation: intermediation: intermediation: intermediation: intermediation: intermediation: intermediation: intermediation:		Report to: Megan Eu	dney		Data Transfer C	ontact: M	egan Ed	Yar	4	voice To: C	Intario Cl	ean Wa	ter Agen	cy			1	aborator	y: SGS Lakef	ield Resea	rch Ltd	
Instruction Display	Instruction	ldress:	18 Caroline Street Southampton, ON			18 Caroline Str Southampton, (Note 21 0	N			10.0	36 Main St. helburne, O IV 3K5	шz						×	akefield,	NO			
(1) (1)<	Image: Control of the control of t	elephone:	519-374-5782			519-374-5782				5	19) 925-19.	38							05-652-5	2000			
Image: Sample Location Name Image: Sample Location Name Contraction Name Contraction Name Contraction Name Parameter Contraction Name Sample Location Name Context Name Data & Time Data & Time Data & Time Data Name Context Name	Image: Sumplex formulation in the string formulation	ax: mail:	(519) 797-3080 medney2@ocwa.co	E		(519) 797-3080 mednev2@ocw	a.com			<u>9</u> 8	westhighla	nds@ocw	va.com					0	amie.gre	enlaw@sqs.o	ma		
Ball Sample Location Name Date & Time	Ball Sample Location Name Date & Time Da			Sample				CI Res	idual (m	3/1)				Param	aters				H	Commer	nts	э	AV
0 0 1	Image: State Image: State <th< td=""><td>mynonoA noitst</td><td>tion mber vor me)</td><td>ocation Nam</td><td><u>ه</u></td><td>Date & Time Collected AR 2 8 2022</td><td>settoB to #</td><td>Free</td><td>lstoT</td><td>Combined (J\gm)</td><td></td><td>Solids Solids Total</td><td>E.Coll</td><td>CBOD®</td><td>Total Americale</td><td>Nitrogen Nitrite</td><td>Nitrate</td><td>Nitrite + Nitrate</td><td></td><td></td><td></td><td>OM of bsoldU</td><td>VOO of beoldU</td></th<>	mynonoA noitst	tion mber vor me)	ocation Nam	<u>ه</u>	Date & Time Collected AR 2 8 2022	settoB to #	Free	lstoT	Combined (J\gm)		Solids Solids Total	E.Coll	CBOD®	Total Americale	Nitrogen Nitrite	Nitrate	Nitrite + Nitrate				OM of bsoldU	VOO of beoldU
Eff Eff <td>Tim Eth E</td> <td>s</td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>12 2</td> <td>1000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Yes</td> <td>Yes</td>	Tim Eth E	s					2	12 2	1000						-	1						Yes	Yes
Eff Eff Eff Eff Eff Eff X <	Eff Eff Eff Eff Eff Eff × <		11 - Ellivent (Orab				-	No.				-	*		-				Tem	perature (C) =	1	No	No
Image: Second	Image: Second	Eff	iff - Effluent (Com	posite)		20.30	2	12.5				×	X	×	×	×	×	×	-			Yes X	Yes
Image: Second	Image: Second State Second State Second S												2						1		Ĩ	Yes	Yes
Image: Second	Image: Second and Second Se												-			17	0	ach	Add	05 00		Yes	Yes
ampler Name: DAN Carston Carston Man File Viele Viele <td>ampler Name: DAN Carbon Active A</td> <td></td> <td>The</td> <td>+W.</td> <td>Ger</td> <td>Fmar</td> <td>Je a</td> <td>Yes No</td> <td>Yes</td>	ampler Name: DAN Carbon Active A																The	+W.	Ger	Fmar	Je a	Yes No	Yes
ampler Name: Image:	Impler Name: Impler Name: <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td>9</td><td>NO</td><td>D</td><td>That</td><td>Ho</td><td>Yes No</td><td>Yes</td></td<>												-				9	NO	D	That	Ho	Yes No	Yes
ampler Name: DAN DAN DASS Reader Signature: Sampler Signature: And Careford Signature: See discontance of Secondary Transmissing Weit, Ari - Averation, Bis - Biosolids thickening, Bpd - Biosolids thirdening, Reserves and Secondary Transmissing Secondary Transmissing Weit, Ari - Averation, Bis - Biosolids thirdening, Bpd - Biosolids thirdening, Reserves and Secondary Transmissing secondary Transmissing and Secondary Transmissing according filternt, RAS - Nacie Activated Studge, Under Jasse Reader, Care - Data Careford, PEE - Primary Transment, Rev - Re-aeration, Teatr Transmissing Secondary Transmissing according filternt, RAS - Nacie Activated Studge, IndW - Industrial Wasterwater, PSin - Fumary Transmissing according filternt, RAS - Secondary Transmissing according filternt, RAS - Transment, Rev - Re-aeration, Teatr Primary Transment, Rev - Re-aeration, Teatr Transment, Rev - Reveated Studge, Secondary Transmissing according filternt, RAS - Secondary Transmissing according fil	ampler Name: DAN CAESAR Sampler Signature: Mon Variable Variable Station Acrown: Call - Cell Contents, Dis - Disintection, Down - Downstream, Fit - Final Effluent, Priby - Primary Bipass, Raw - Raw Sewage, Scipt - Secondary Tegament/S Sampler Signature: Mon																1				- thin	Yes No	Ves
iampler Name: DAN CAESAC Sampler Signature: A. Canan Canan Sampler Signature: A. Canan Can	iampler Name: DAN CAESAC Sampler Signature: Records and the second structure of the second structure o																					Yes No	Yes No
Station Acromym: Cell - Cell Contents, Dis - Disinfection, Down- Downstream, EH - Final Eftuent, PHy - Primary Bypass, Raw - Raw Sowage, ScBy - Secondary Bypass, Up - Upstream, Well - Monitoring Well, Act - Acration, Brs - Biosolids-raw sludge, Bth - Biosolids intokening, Bpd - Biosolids prinary Bypass, Hold - Biosolids sec. digeston, Brs - Disinfection, Down - Downstream, EH - Final Eftuent, PHy - Primary Bypass, Raw - Raw Sowage, ScBy - Secondary Treatmen/Selfs, Pfet - Primary Treatment/Selfs, Pfet - Primary Effuent, RAS - Return Acrivated Studge, Bth - Biosolids sec. digeston, Brs - Biosolids pri super, Bss - Biosolids sec super, Bs4 - Biosolids subge, indiv - Jostenkod AF Floatation, Gil - Primary Treatment, RAS - Return Acrivated Studge, indiv - Individent Secondary Treatment/Selfs and Treatment/Selfs sec digeston, Brs - Biosolids pri super, Bss - Biosolids sec super, Bs4 - Biosolids sec super, Bs4 - Biosolids sec super, Bs4 - Biosolids sec digeston, Brs - Biosolids pri super, RAS - Waste Activated Studge, indiv - Individe Studge, Icht - Leachalo, Prit - Primary Treatment, ReA - Reaeration, Tert - Tertiary Treatment, Alto - Actillo, TeBy - Tertiary Bypass, Hold - Holding ocondary Effuent, TWAS - Thickened Waste Activated Studge, indiv - Industrial Wastewater, PSin - Pump Sin, Septinge, Left - Leachalo, Prit - Primary Treatment, Alto - Actillo, TeBy - Tertiary Bypass, Hold - Holding ocondary Effuent, TWAS - Waste Activated Studge, indiv - Industrial Wastewater, PSin - Pump Sin, Septinge, Left - Leachalo, Prit - Primary Treatment, ReA - Reaeration, Tett - Tertiary Treatment, Alto - Actillo, TeBy - Tertiary Bypass, Hold - Holding ocondary Effuent, TWAS - Thickened Waste Activated Studge, indiv - Indiversity Streated Studge, and W - Indiversity Sin Septinge, Left - Leachalo, Prit - Primary Treatment, Alto - Actillo, TeBy - Tertiary Bypass, Hold - Holding Score Studge, Score Studge, Score Studge, Score Studge, Score Studge, Score Scor	Station Acomm: Cell - Cell Contents, Dis - Disjnection, Down - Downstream, Et - Final Effluent, PrBy - Primary Bypass, Raw - Raw Sewage, ScBy - Secondary Bypass, Up - Upstream, Well - Moniforing Well, Acr - Acration, Brs - Biosolids-raw sludge, Btt - Biosolids the Bosolids the Primary Effluent, RAS - Repainded State - Biosolids see. digestion, Bps - Biosolids see ager, Bst - Biosolids see augre, Bst - Biosolids see ager, Bst - Biosolids see augre, Bst - Biosolids see ager, Bst - Biosolids see augre, Bst - Biosolids see ager, Bst - Acration, Inde - Acritary Treatment, Rok - Reker Activated Studge, WAS - Waste Activated Studge, IndW - Industrial Wastewater, PSin - Fum St Treatments, Rok - Reker Activated Studge, So - Cambined Sewer Overlow, SSO - Sanitary Sewer Overlow SGO - Cambined Sewer Overlow, SSO - Sanitary Sewer Overlow	ampler Nam	le:	Daw	Caesa	0		ampler (ignature	36	X	2MC	Cal	Call									
000dday Ellulori, IMA- Informe was Aureau Sudgi, MA- Internet and a second seco	according titulori, IMAS - Information waster Avertions SO - Cambined Sever Overflow, SSO - Sanitary Sever Overflow Revision #6 Revision #6	Station Acronyr gestion, Bsd - E	nt: Cell - Cell Contents, Dis - Dis Biosofids sec. digestion, Bps - B	sinfection, Down - Do liosolids pri super, B	ownstream, Eff - Fin Iss - Biosolids sec si Moste Activated	val Effluent, PrBy - Primary I. uper, Bsiq - Biosolids sludgi d Studoe Todw - Industrial V	lypass, Raw n quality, Bsi Vactewater	- Raw Sew oq - Biosolik PStn - Pue	age, ScB) Is soil qual to Stn. Ser	Y - Secondar Ny, DAF - Di ot - Septage.	y Bypass, Up - ssolved Air Flo Lcht - Leacha	Upstream, atation, Grit to, PrTr - Pr	Well - Moi I - Primary rimary Tree	Treatmen atment, Re	II, Aer - A VGrit, PrEI Ar - Re-ac	eration, Br - Primary ration, Ter	Effluent, f	ds-raw slu 2AS - Retu	im Activate at, Atto - Ac	Biosolids thicken d Sludge, SBR - citila, TeBy - Tert	ing, Bpd - Bio Secondary Tr Jary Bypass, F	solids prima eatment/SB fold - Holdir	Rs.
A TEXT II AT IN THAT IN TH	relation and a	SO - Combined	1 Sewer Overflow, SSO - Sanita	rry Sewer Overflow	r	LU0	H	802	S.	763	CF	9				Revis	sion #6					Revised: 2	018-



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

11-April-2022

Date Rec.: 30 March 2022 LR Report: CA15617-MAR22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	6: Client Limits Nov to April	8: Client Objective Nov to April	9: Eff Eff-Effluent (Composite)
Sample Date & Time							28-Mar-22 22:30
Temperature Upon Receipt [°C]							10.0
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	31-Mar-22	16:56	05-Apr-22	13:19	15.0	10.0	< 2
Total Suspended Solids [mg/L]	31-Mar-22	07:49	01-Apr-22	07:50	15.0	10.0	4
Phosphorus (total) [mg/L]	01-Apr-22	21:13	04-Apr-22	11:21	0.3	0.15	< 0.03
Total Kjeldahl Nitrogen [as N mg/L]	01-Apr-22	21:44	05-Apr-22	09:42			0.8
Ammonia+Ammonium (N) [as N mg/L]	30-Mar-22	17:00	31-Mar-22	10:34	6.0	6.0	0.3
Nitrite (as N) [mg/L]	01-Apr-22	20:01	08-Apr-22	16:28			0.05
Nitrate (as N) [mg/L]	01-Apr-22	20:01	08-Apr-22	16:28			4.63
Nitrate + Nitrite (as N) [mg/L]	01-Apr-22	20:01	08-Apr-22	16:28			4.68
E. Coli [cfu/100mL]	30-Mar-22	15:41	01-Apr-22	14:34			< 2

Note: E.Coli was analyzed from a unsterilized 500mL PET bottle as per client's request.

even

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

0002859042

Page 1 of 1 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

Facility Name Wiarton WWTP Org. # 5620 Org. # 5620 Org. # 5620 Date fee: MR 3.1 Attorner Temperature Upon F Attorner Attorner Attorner Attorner <td< th=""><th>101-1101 × 14734</th></td<>	101-1101 × 14734
Autorities Transference Tra	3 1 2022 B. Time Recid: Initials
April and transmission of Regulation under which the sample(s) tell. No Requirement to Report Sample Results Under Any Regulation for Wastewater Transmission of Regulation for Wastewater Construction of Wastewater Constructin of Wastewater Construction of Wastewater Construction	Upon Receipt 장 文 3 °C
App. App. Requested Turnaround Time: Requested Turnaround Time: Repreted Turnaround Time: App. Report to: Magan Edinoy Data Tartier Contact: Magan Edinoy App. Report to: Magan Edinoy Data Tartier Contact: Magan Edinoy Data Tartier Contact: Magan Edinoy App. Statution State Southamption: ON Nontaction State <	aler Treatment
Report ID: Megan Editey Data Tameler Contact. Megan Editey Invoice To: Ontario Clean Water Applied Report ID: Megan Editey 16 Caroline Street Street Street and Street Street and Street Street and PL/Lo 16 Caroline Street Street and Street Street and Street Street and Street Street and Street Street and Street 16 Caroline Street Street and Street Stree Street Street </th <th>5-7d 7-10d Other Specify</th>	5-7d 7-10d Other Specify
Suthampton, ON Southampton, ON Southampton, ON Rest Southampton, ON Southampton, ON Anne: Start Stress 519-374-5782 Inder 2.0 S19-374-5782 519-374-5782 Inder 2.0 Sample Control of the control of th	ater Agency Laboratory: SGS Lakefield Research Ltd 185 Concession St.
Imitation Initialization Initializati	Lakenelo, ON K0L 2H0 705-652-2000
Sample Station Station Sample Station Sample Station Sample Station Sample Sample Collected MAR 31 2021 MAR 4 X X X MAR 4 X MAR 5 X MAR 4 X MAR 4 X	705-552-5365 carrie.greenlaw@sqs.com
Station Station State Structure (Structure Structure (Structure Structure (Structure Structure (Structure Structure (Structure	Paramaters Comments w
aw Raw - Raw Sewage @ Purk N:CC: 2 X </td <td>CBOD₅ Upload to MO Nitrite Nitrite Nitrite + Nitrate</td>	CBOD ₅ Upload to MO Nitrite Nitrite Nitrite + Nitrate
$MBR Effuort$ 2 $X \times X \times X$ H Eff Effluent (Grab) I_1 - \mathcal{Z}_G 1 $X \times X \times X$ H Eff Effluent (Grab) I_1 - \mathcal{Z}_G 1 $X \times X \times X$ $X \times X \times X$ H Eff Effluent (Grab) I_1 - \mathcal{Z}_G 1 $X \times X \times X$ $X \times X \times X$ H Effluent (Composite) I_1 - I_G 2 2 2 $X \times X \times X$ H Effluent (Composite) I_1 - I_G 2 2 $X \times X \times X$ $X \times X \times X$ H Effluent (Composite) I_1 - I_G 2 2 2 $X \times X \times X$ $X \times X \times X$ H Effluent (Composite) I_1 - I_G 2 2 2 $X \times X \times X$ $X \times X \times X$ H H H H H X $X \times X \times X$ $X \times X$ H H H H H H X $X \times X \times X$ H H H H H H X $X \times X$ X X X X </td <td>X 2 - 500 mL PET bottles; Yes X N no preservative No</td>	X 2 - 500 mL PET bottles; Yes X N no preservative No
# Effluent (Grab) 11. 2G 1 ×	2 - 500 mL PET bottles; Yes X Y no preservative No
If Eff - Effluent (Composite) 11:15 2 X X X X X X X X X X X X X X X X X X	$\frac{1-250m_{H} + DPF}{PH} = 32.4 \text{ Control Poly} V_{es} \times V_{es} $
	X X X X 2 - 500 mL PET bottles; Ves X Ves X Ves X
	Ves C
npler Name: Sampler Signature:	

J

L

606083615616 M



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #:110000819Project :PO#017018

06-April-2022

 Date Rec. :
 31 March 2022

 LR Report:
 CA14734-MAR22

Copy:

#1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	6: Client Limits Nov to April	8: Client Objective Nov to April	9: Raw Raw-Raw Sewage @ Pump Station #2	10: Eff Eff-Effluent (Grab)	11: Eff Eff-Effluent (Composite)
Sample Date & Time							30-Mar-22 11:00	30-Mar-22 11:20	30-Mar-22 11:15
Temperature Upon Receipt [°C]							12.0	12.0	12.0
Field pH [no unit]					6.0-9.5			8.54	
Field Temperature [celcius]								2.4	
Biochemical Oxygen Demand (BOD5) [mg/L]	01-Apr-22	16:09	06-Apr-22	12:59			76		
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	01-Apr-22	14:24	06-Apr-22	14:27	15.0	10.0			2
Total Suspended Solids [mg/L]	01-Apr-22	07:40	04-Apr-22	11:39	15.0	10.0	80		4
Alkalinity [mg/L as CaCO3]	01-Apr-22	06:27	01-Apr-22	13:07			277		
Phosphorus (total) [mg/L]	01-Apr-22	21:13	05-Apr-22	14:24	0.3	0.15	1.70		0.03
Total Kjeldahl Nitrogen [as N mg/L]	01-Apr-22	21:44	04-Apr-22	09:09			15.6		0.8
Ammonia+Ammonium (N) [as N mg/L]	01-Apr-22	17:27	04-Apr-22	10:43	6.0	6.0			0.2
Nitrite (as N) [mg/L]	02-Apr-22	12:30	04-Apr-22	22:14					< 0.03
Nitrate (as N) [mg/L]	02-Apr-22	12:30	04-Apr-22	22:14					4.72
Nitrate + Nitrite (as N) [mg/L]	02-Apr-22	12:30	04-Apr-22	22:14					4.72
E. Coli [cfu/100mL]	31-Mar-22	15:20	04-Apr-22	08:25				< 2	

0002854752

Page 1 of 2

Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.)

Test method information available upon request. *Temperature Upon Receipt* is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.



 Works #:
 110000819

 Project :
 PO#017018

 LR Report :
 CA14734-MAR22

Carrie Greenlaw Project Specialist, Environment, Health & Safety

0002854752

Page 2 of 2

Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.)

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

Fielding Nation Viarton WUTP Januaria	3	Waterworks/Project #	1100001	319				1	C of C LI	NS No:	T	2	130	02						
Action of Figure 1 Temportane List Temport		Facility Name Wiart Org. # 5620	ton WW	TP					Laboratory Date	Section Rec'd:	APR	11	022		Time	Sample Rec'd:	condition u	pon receipt Ini	tials 0	2
Antificient of regulation for Regulation for Networks Theorem Character Networks (The samples) tark. No Part And		Quote # Attached Parameter List	Ž		Yes					Tempo	erature (Jpon Ru	sceipt	CS	X		°C.		1	
Requested functioned frame: Unit Roy MS PC0_ Meth Anth Total Other Spath Requested functioned frame: Not NS PC0_ Meth Request Hopen frame: Not NS PC0_ Meth Not NS PC0_		Identification of Regulation und	ter which the	sample(s) fall: No Requirem	lent to Re	port San	ple Res	ults Unde	r Any Regu	lation for V	Nastewa	tter Tres	tment							
Парти Кодал Вана		Requested Turnaround Tin	ne:	Not Rush AS I	2020	App. Req'd		24-48 h	×				P2-5			7-10d	Other	Specify:		
Вазания Солонания Ваза		Donort to: Magan Edney		Data Transfer (Contact:	Aegan Ed	Inev	1	invoice To:	Ontario Cl	lean Wa	ter Age	JCV			1	aboratory: S	SGS Lakefield Re	esearch Lt	P
Пилиси ините	fress:	18 Caroline Street Southampton, ON		18 Caroline Str Southampton,	ON	0		1	136 Main S Shelburne, I	L. E ON							85 Concess akefield, Of 01 2H0	ion St.		
Initial (15) Половий (15)	sphone:	N0H 2L0 519-374-5782		519-374-5782					(519) 925-1	938							05-652-200	0		
Sample Carretor Carretor Connects	ait:	(519) 797-3080 medney2@ocwa.com		medney2@ocw	ra.com				apwesthigh	ands@ocv	va.com						arrie.green!	aw@sgs.com		
Sample Solution Sample Location Name Data Sample Location Name Data Sample Location Name Sample Location Name Sample Location Name Data Sample Location Name Data Sample Location Name Sample Location Name Sample Location Name Data Sample Location Name Sample Location Name <td< td=""><td></td><td>Sam</td><td>Iple</td><td></td><td></td><td>CIRe</td><td>sidual (n</td><td>ng/L)</td><td></td><td></td><td></td><td>Paran</td><td>aters</td><td></td><td></td><td></td><td>_</td><td>Comments</td><td></td><td>A</td></td<>		Sam	Iple			CIRe	sidual (n	ng/L)				Paran	aters				_	Comments		A
Eff Effluent (Grab) QQ: (O 1 QQ: (O 1 Pit-Q-10 1 Effluent (Carb) QQ: (O 2 Pit-Pit-Pit-Pit-Pit-Pit-Pit-Pit-Pit-Pit-	Station Acronym Name Statio	Sample Location N	lame	Date & Time MAR ^{oujected} 2022	seitto8 to #	Free	IsioT	banldmoO (mg/L)		Total Suspended Solids Total	E.Coll Phosphorous	CBOD ²	TKN	otal Ammonia Nitrogen Mitrite	Nitrate	Nitrite + Nitrate			IOM of bsoldU	Upload to OCW
Eff Effluent (Composite) OQ:00 2 X	Eff Eff	- Effluent (Grab)		01:00	Ŧ						×	~		_	-		PH = Temper	3-51 A.T	CC No	Xes Q
	Eff Eff	- Effluent (Composite)		09:00	2					×	>	×	×	××	×	×			Yes No	No I
										2	-								Yes	Yes No
ampler Name: Sampler Signature:	-	St 12. LLI -	Los A	10/ 00							-			-					Yes	Ves
											2								Yes	Yes No
			-			0	1	L											Yes	No
ampler Name:			-			3									-				Ves	Yes
ampler Name:															-				Yes	S 2
	npler Name:	Der	U	AFSAF		Sampler	Signatur	ji ji	2	1	00	J.					T			

608027635 826 - Rtn, 10:15

M



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #:110000819Project :PO#017018

07-April-2022

 Date Rec. :
 01 April 2022

 LR Report:
 CA13005-APR22

Copy:

#1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: t Analysis Completed Date	4: Analysis Completed Time	6: Client Limits Nov to April	8: Client Objective Nov to April	9: Eff Eff-Effluent (Grab)	10: Eff Eff-Effluent (Comp)
Sample Date & Time							31-Mar-22 09:10	31-Mar-22 09:00
Temperature Upon Receipt [°C]							12.0	12.0
Field pH [no unit]					6.0-9.5		8.51	
Field Temperature [celcius]							2.7	
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	01-Apr-22	14:24	06-Apr-22	13:55	15.0	10.0		< 2
Total Suspended Solids [mg/L]	02-Apr-22	09:44	04-Apr-22	14:23	15.0	10.0		6
Phosphorus (total) [mg/L]	04-Apr-22	16:57	06-Apr-22	11:03	0.3	0.15		0.04
Total Kjeldahl Nitrogen [as N mg/L]	02-Apr-22	07:54	04-Apr-22	09:31				< 0.5
Ammonia+Ammonium (N) [as N mg/L]	04-Apr-22	19:35	05-Apr-22	12:48	6.0	6.0		0.2
Nitrite (as N) [mg/L]	02-Apr-22	11:05	07-Apr-22	14:08				< 0.03
Nitrate (as N) [mg/L]	02-Apr-22	11:05	07-Apr-22	14:08				4.59
Nitrate + Nitrite (as N) [mg/L]	02-Apr-22	11:05	07-Apr-22	14:08				4.59
E. Coli [cfu/100mL]	01-Apr-22	15:35	04-Apr-22	09:44			< 2	

0002856073

Page 1 of 2

Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.)

Test method information available upon request. *Temperature Upon Receipt* is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.



 Works #:
 110000819

 Project :
 PO#017018

 LR Report :
 CA13005-APR22

Carrie Greenlaw Project Specialist, Environment, Health & Safety

0002856073

Page 2 of 2

Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.)

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

											1		1							
	<u> </u>	Facility Name Wiarton W	WTP					Laboratory Date I	Section Rec'd:	AF	R D	6 202	2		S Time Re	ample o c'd:	ondition up	pon receipt Initial	D	
		Suote # ttached Parameter List	No	Yes					Tem	perature	e Upon	Receip		5			1 0			
		dentification of Regulation under which t	he sample(s) fall: No Requiremt	ent to R	eport Sar	nple Re	ults Und	er Any Regul	lation for	Waster	water Ti	reatmer								
		Requested Turnaround Time:		1	App. Req'd		24-48 h	×				5-7d			7-	10d	Other	Specify:		
	E	teport to: Megan Edney	Data Transfer C	ontact:	Megan E	dney		Invoice To:	Ontario C	Clean M	Vater Ac	tency				Lat	oratory: S	GS Lakefield Rese	arch Ltd	
Address:	- 0 Z	8 Caroline Street iouthampton, ON ioH 21 0	18 Caroline Stre Southampton, C NOH 21 0	on				136 Main St Shelburne, C	ON E							18t Lak Koi	Concessi cefield, ON	ion St.		
Telephone ax:		19-374-5782 519) 797-3080 adhav2@news.com	519-374-5782 (519) 797-3080 madrav@conver					(519) 925-15 (519) 925-05	938 322	000 000						705	-652-6365) Sere com		
-unaut+								manneourio	in non loon in	W C C C C C C C C C C C C C C C C C C C						Cal	10.4100110	montehealth		
		Sample			CI Re	sidual (r	(T/Bu				Par	amaters						Comments		A
mynora noitst2	Station Number (Short Name)	Sample Location Name	Date & Time Collected 2022 [Oit]05	settos to #	Free	Total	benidmoO (J\gm)		Total Suspended Solids Total	E Coll Bhosphorous	CBOD®	TKN	sinommA IstoT negoviiN	etittiN	eletiN	Nitrite + Nitrate			OM of bsoldU	WDO of bsoldU
Ell	Eff	- Effluent (Grab)	14:15	٣						×	0	_					pH= 8	65 3.8°C	Yes X	Ves
EA	Eff	Effluent (Composite)		2			and the second		×		×	×	×	×	×	×			Yes	Ves [
					200	1 × 1				12				1					No	Ŷ
					Î											_	_		Yes No	Yes No
		wallerd dow	1	121															Yes No	2 Ser
		at 12:15																	Ves 🗌	Yes R
		0	(-							-		Yes No	Ves No
																			Yes	Yes
																			Yes	78 No
Sampler N.	ame:	DAN C	AESAC		Sampler :	Signatun	iii.	The	1	10	ES.	0								

ON HAR HARDER RAN 10.30

Revised: 2018-09-21

Revision #6



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

07-April-2022

 Date Rec. :
 06 April 2022

 LR Report:
 CA12207-APR22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	9: Eff Eff-Effluent Grab
Sample Date & Time					05-Apr-22 14:15
Temperature Upon Receipt [°C]					15.0
Field pH [no unit]					8.65
Field Temperature [celcius]					3.8
E. Coli [cfu/100mL]	06-Apr-22	17:17	07-Apr-22	16:15	< 2

y Underen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

0002856513

Page 1 of 1 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

C		Naterworks/Project # 110000	3819					C of C LIM.	S No:	211	2	ñ	n n							
)		Facility Name Wiarton WV	VTP					Laboratory S Date Re	ection ec'd:	Af	D SC 0	372022	F	Sar me Rec'	mple con	dition upo	n receipt	Initials	S	5
	10 4	Ouote # Machined Barameter List	No	Yes					Temper	ature Up	on Rece	ipt	ŝ	0	ပ္စ					
		dentification of Regulation under which th	ie sample(s) fall: No Requ	irement to	Report S	ample R	esults Un	ler Any Regula	tion for W	astewate	r Treatm	ent			,					
		Requested Turnaround Time:			App. Req'd		24-481	23	A CON	E	Uds.	In P		7-1	Po	Other	Spec	ify:		
		Report to: Megan Edney	Data Tran	ter Contac	t: Megan	Edney		Invoice To: C	Intario Cle	an Water	Agency				Labor	atory: SG	S Lakefie	eld Resea	rch Ltd	
Idress:		18 Caroline Street Southampton, ON	18 Carolin Southamp Note 21 0	e Street ton, ON			1	136 Main St. Shelburne, Ol 1 9V 3K5	шz						Laket KOL 2	eld, ON H0	101			1
lephone	14	NUH 2LU 519-374-5782	519-374-5	782				(519) 925-19	38						705-6	52-6365				
ux: nail:		(519) /9/-3080 medney2@ocwa.com	medney26	Docwa.con				apwesthighla	nds@ocw	1.com					carrie	greenlaw	@sgs.co	E		14
		Sample			Ū	Residual	(mg/L)				aramat	ers					Comment	5	Э	
түпотаА noitst8	Station Number (Short Name)	Sample Location Name	Date & Time Collected	# of Bottles	Free	IstoT	benidmoO (mg/L)		Solids Solids IstoT Supporteror	E.Coll	CBOD ²	ainommA latoT negotilN	aittiN	etertily + etittily					OM of blogd to MO	
击	Eff	- Effluent (Grab)		Ŧ	a. e	-				×	5	al Ca	C			pH = Temperatur	e (C) =	1	V I I I	
田	击	- Effluent (Composite)	22:15	N					× ×		×	×	×	×	~				Ves X	Tet
				-		8			-					1		-			Yes	
				-															Yes No	TIT
						-						1							Yes	in m
																			No No	100
						-							1						Ves	mm
			2.						-										Yes No	nn l
ampler I	Name:	Davi Car	SAR		Samp	er Signa.	ture:	Da	V	2002										
Station Ac	Call -	Concentrate No. Distribution Down Downstrees	and second secon	Providence -	Date - Date		-Du Sam	dan Bunsee In .	Unstream. W	'ell - Monito	ving Well.	Aer - Aeral	ion. Brs - E	lingolds-ra	w sludoe.	3th - Biosolic	is thickenin	g, Bpd - Bio	solids prim	10 0

4

10:30 608027635341, Rtn



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

19-April-2022

 Date Rec. :
 07 April 2022

 LR Report:
 CA13136-APR22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	6: Client Limits Nov to April	8: Client Objective Nov to April	9: Eff Eff-Effluent (Composite)
Sample Date & Time							05-Apr-22 22:15
Temperature Upon Receipt [°C]							13.0
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	08-Apr-22	14:31	13-Apr-22	14:57	15.0	10.0	3
Total Suspended Solids [mg/L]	08-Apr-22	14:36	12-Apr-22	11:22	15.0	10.0	6
Phosphorus (total) [mg/L]	08-Apr-22	17:18	11-Apr-22	19:53	0.3	0.15	< 0.03
Total Kjeldahl Nitrogen [as N mg/L]	08-Apr-22	16:03	12-Apr-22	13:45			0.6
Ammonia+Ammonium (N) [as N mg/L]	08-Apr-22	22:41	11-Apr-22	20:51	6.0	6.0	< 0.1
Nitrite (as N) [mg/L]	08-Apr-22	19:46	14-Apr-22	15:46			< 0.03
Nitrate (as N) [mg/L]	08-Apr-22	19:46	14-Apr-22	15:46			3.87
Nitrate + Nitrite (as N) [mg/L]	08-Apr-22	19:46	14-Apr-22	15:46			3.87

y anderen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

0002868914

Page 1 of 1 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

From:	Karla Young
To:	<u>"Graham, Robert G. (MECP)";</u> "Smith, Mark (MECP)"
Cc:	Leo-Paul Frigault; Camille Leung
Subject:	2022 Q2 - Bypass Overflow Event Summary - Wiarton WWTP (110000819) - Town of South Bruce Peninsula
Date:	August-12-22 3:18:00 PM

Good Afternoon,

Under ECA 6045-ARDJS7, a quarterly summary report shall be submitted for Bypass Event(s) and Overflows that occur at the Wiarton Wastewater Treatment Plant.

Bypass Events

The ECA requires the submission of a summary report of the Bypass Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the beginning of the Bypass;
- the location of the Bypass and the treatment process(es) bypassed;
- the reason(s) for the Bypass;
- the date and time of the end of the Bypass;
- the measured or estimated volume of Bypass;
- Samples collected;
- Assessment of the impact of the Event(s) on Final Effluent, plant operation and the receiver;
- Planned mitigation strategies, as appropriate.

D (Ti	me	Duration	Volume	Treatment	Samples	Reason	Impact of Event	Mitigation
Date	Start	End	HH:MM	(m ³)	Process Bypassed	Collected	for Bypass		
March 28- April 5, 2022	March 28 14:20 PM	April 5 14:30 PM	72 Hours	21, 062	MBBR	Yes	The screens between MBBR cell 1 and 2 were plugged. The MBBR was shut down and bypassed before it spilled over.	Raw sewage discharge from the (3)-cell MBBR System bypass was directed to the (3)-cell waste stabilization lagoon system which provides effluent polishing. Flow from the lagoons was then directed into the sand filtration system and through the UV disinfection system before it was released into Colpoy's Bay.	The screens and the cells of the MBBR were cleaned before being put back online
April 13, 2022	April 13 01:05 AM	April 13 01:40 AM	35 minutes	74.67	UV disinfection	Yes	Power failure causing UV system failure	Filter treated effluent released to effluent outfall	n/a
May 21, 2022	May 21, 2022 04:22 AM	May 21, 2022 05:10 AM	48 minutes	30	UV disinfection	Yes	Power failure causing UV system failure	Filter treated effluent released to effluent outfall	n/a

Overflow Events

The ECA requires the submission of a summary report of the Overflow Event(s) to the Water

Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the beginning of the Overflow;
- the location of the Overflow and the receiver and disinfection status of the Overflow;
- the reason(s) for the Overflow;
- the date and time of the end of the Overflow;
- the measured or estimated volume of Overflow;
- the mitigation measures taken;
- Samples collected;
- Assessment of the impact of the Event(s) on plant operation and the receiver;
- Planned mitigation strategies, as appropriate.

Data	Tir	ne	Duration	Volume	Decoiver	Disinfection	Samples	Reason	Impact of	Mitigation:
Date	Start	End	HH:MM	(M ³)	Receiver	Overflow	Conecteu	Overflow	Event	Planned
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Thanks,

Karla

Karla Young Process & Compliance Technician Grey-Bruce/Bruce Hubs Georgian Highlands Region **Ontario Clean Water Agency** <u>kyoung@ocwa.com</u> (519) 374 - 5782



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

27-April-2022

Date Rec.: 21 April 2022 LR Report: CA12826-APR22

Copy: #2

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed	4: Analysis Completed Time	6: Client Limits Nov to April	8: Client Objective Nov to April	9: Eff Eff-Effluent Grab
Sample Date & Time			Date	inne			13-Apr-22 01:40
Temperature Upon Receipt [°C]							12.0
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	21-Apr-22	17:49	26-Apr-22	13:48	15.0	10.0	<2 UAL
Total Suspended Solids [mg/L]	22-Apr-22	13:53	26-Apr-22	13:01	15.0	10.0	13
Phosphorus (total) [mg/L]	25-Apr-22	14:18	27-Apr-22	11:13	0.3	0.15	< 0.03
Total Kjeldahl Nitrogen [as N mg/L]	22-Apr-22	15:35	25-Apr-22	11:42			0.7
Ammonia+Ammonium (N) [as N mg/L]	22-Apr-22	21:03	25-Apr-22	11:05	6.0	6.0	0.1
Nitrite (as N) [mg/L]	23-Apr-22	16:39	27-Apr-22	10:15			< 0.03
Nitrate (as N) [mg/L]	23-Apr-22	16:39	27-Apr-22	10:15			3.35
Nitrate + Nitrite (as N) [mg/L]	23-Apr-22	16:39	27-Apr-22	10:15			3.35

Note: CBOD, TSS, Nitrite and Nitrate were received after the recommended holding time of 7 days. Results may be unreliable. Samples were processed with client's approval. UAL - Unreliable: Sample Age Exceeds Normal Limit

ala

Carrie Greenlaw Project Specialist, Environment, Health & Safety

refer to SGS

000287952

Page 1 of 1

Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

02-June-2022

Date Rec.: 26 May 2022 LR Report: CA15548-MAY22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Client Limits May to Oct	7: Client Objectives May to Oct	9: Eff Eff-Effluent (Composite)
Sample Date & Time							20-May-22 23:30
Temperature Upon Receipt [°C]							18.0
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	27-May-22	18:01	01-Jun-22	15:20	15.0	10.0	< 2
Total Suspended Solids [mg/L]	27-May-22	08:42	29-May-22	11:44	15.0	10.0	2
Phosphorus (total) [mg/L]	31-May-22	16:16	01-Jun-22	13:11	0.3	0.15	< 0.03
Total Kjeldahl Nitrogen [as N mg/L]	30-May-22	17:10	01-Jun-22	14:29			0.6
Ammonia+Ammonium (N) [as N mg/L]	31-May-22	12:45	01-Jun-22	09:35	3.0	3.0	0.1
Nitrite (as N) [mg/L]	27-May-22	14:32	01-Jun-22	09:10			< 0.03
Nitrate (as N) [mg/L]	27-May-22	14:32	01-Jun-22	09:10			0.38
Nitrate + Nitrite (as N) [mg/L]	27-May-22	14:32	01-Jun-22	09:10			0.38

ey anderen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

0002922296

Page 1 of 1 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #:110000819Project :PO#017018

02-June-2022

 Date Rec. :
 26 May 2022

 LR Report:
 CA15549-MAY22

Copy:

#1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Client Limits May to Oct	7: Client Objectives May to Oct	9: Eff Eff-Effluent (Grab)
Sample Date & Time							21-May-22 05:05
Temperature Upon Receipt [°C]							19.0
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	27-May-22	18:01	01-Jun-22	15:20	15.0	10.0	< 2
Total Suspended Solids [mg/L]	27-May-22	08:42	29-May-22	11:44	15.0	10.0	3
Phosphorus (total) [mg/L]	31-May-22	16:16	01-Jun-22	13:11	0.3	0.15	< 0.03
Total Kjeldahl Nitrogen [as N mg/L]	30-May-22	17:10	01-Jun-22	14:29			< 0.5
Ammonia+Ammonium (N) [as N mg/L]	31-May-22	12:45	01-Jun-22	09:35	3.0	3.0	< 0.1
Nitrite (as N) [mg/L]	27-May-22	21:21	01-Jun-22	09:42			< 0.03
Nitrate (as N) [mg/L]	27-May-22	21:21	01-Jun-22	09:42			0.35
Nitrate + Nitrite (as N) [mg/L]	27-May-22	21:21	01-Jun-22	09:42			0.35
E. Coli [cfu/100mL]	26-May-22	16:36	30-May-22	13:20	200 (May 15-Sep15)		122 UAL

Note: E.coli was received after the recommended holding time of 48 hours and was processed with client's approval. UAL - Unreliable: Sample Age Exceeds Normal Limit

0002922303

Page 1 of 2

Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.)

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.


 Works #:
 110000819

 Project :
 PO#017018

 LR Report :
 CA15549-MAY22

leven

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

0002922303

Page 2 of 2

Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.)

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

From:	Karla Young
To:	<u>"Graham, Robert G. (MECP)";</u> "Smith, Mark (MECP)"
Cc:	Leo-Paul Frigault; Camille Leung
Subject:	2022 Q3 - Bypass Overflow Event Summary - Wiarton WWTP (110000819) - Town of South Bruce Peninsula
Date:	November-15-22 11:12:00 AM
Attachments:	Report CA12289-AUG22.pdf

Good Morning,

Under ECA 6045-ARDJS7, a quarterly summary report shall be submitted for Bypass Event(s) and Overflows that occur at the Wiarton Wastewater Treatment Plant.

Bypass Events

The ECA requires the submission of a summary report of the Bypass Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the beginning of the Bypass;
- the location of the Bypass and the treatment process(es) bypassed;
- the reason(s) for the Bypass;
- the date and time of the end of the Bypass;
- the measured or estimated volume of Bypass;
- Samples collected;
- Assessment of the impact of the Event(s) on Final Effluent, plant operation and the receiver;
- Planned mitigation strategies, as appropriate.

Dete	Ti	me	Duration	Volume	Treatment	Samples	Reason	Impact of Event	Mitigation
Date	Start	End	HH:MM	(m ³)	Bypassed	Conectea	Bypass		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Overflow Events

The ECA requires the submission of a summary report of the Overflow Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the beginning of the Overflow;
- the location of the Overflow and the receiver and disinfection status of the Overflow;
- the reason(s) for the Overflow;
- the date and time of the end of the Overflow;
- the measured or estimated volume of Overflow;
- the mitigation measures taken;
- Samples collected;
- Assessment of the impact of the Event(s) on plant operation and the receiver;
- Planned mitigation strategies, as appropriate.

D.	Ti	me	Duration	Volume	ъ ·	Disinfection	Samples	Reason for	Impact	Mitigation:
Date	Start	End	HH:MM	(M ³)	Receiver	Overflow	Collected	Overflow	of Event	Planned
August 7, 2022	12:30	14:05	1 hour 35 minutes	65	Colpoy's Bay	Raw sewage	yes	Power bump caused issues with MCC components. This caused the pumps at pump station #1 to fail and air lock following a high flow event.	n/a	The air was bled out of the pump lines and restarted

Thanks,

Karla

Karla Young Process & Compliance Technician Grey-Bruce/Bruce Hubs Georgian Highlands Region **Ontario Clean Water Agency** <u>kyoung@ocwa.com</u> (519) 374 - 5782



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

15-August-2022

Date Rec.: 09 August 2022 LR Report: CA12289-AUG22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	9: CSO CSO-PS# 1 Overflow (Grab)
Sample Date & Time					07-Aug-22 13:30
Temperature Upon Receipt [°C]					17.0
Biochemical Oxygen Demand (BOD5) [mg/L]	10-Aug-22	17:10	15-Aug-22	15:24	25
Total Suspended Solids [mg/L]	10-Aug-22	14:29	11-Aug-22	14:16	125
Phosphorus (total) [mg/L]	10-Aug-22	16:10	11-Aug-22	13:39	1.18
Total Kjeldahl Nitrogen [as N mg/L]	09-Aug-22	17:46	10-Aug-22	12:46	10.8

Carrie Greenlaw Project Specialist, Environment, Health & Safety

0003011950

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

From:	Karla Young
To:	"Graham, Robert G. (MECP)"; "Smith, Mark (MECP)"; "Shannon, Rhonda (MECP)"
Cc:	Leo-Paul Frigault; Camille Leung
Subject:	2022 Q4 - Bypass Overflow Event Summary - Wiarton WWTP (110000819) - Town of South Bruce Peninsula
Date:	February-13-23 10:19:00 AM

Good Morning,

Under ECA 6045-ARDJS7, a quarterly summary report shall be submitted for Bypass Event(s) and Overflows that occur at the Wiarton Wastewater Treatment Plant.

Bypass Events

The ECA requires the submission of a summary report of the Bypass Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the beginning of the Bypass;
- the location of the Bypass and the treatment process(es) bypassed;
- the reason(s) for the Bypass;
- the date and time of the end of the Bypass;
- the measured or estimated volume of Bypass;
- Samples collected;
- Assessment of the impact of the Event(s) on Final Effluent, plant operation and the receiver;
- Planned mitigation strategies, as appropriate.

Data	Ti	me	Duration	Volume	Treatment	Samples	Reason	Impact of Event	Mitigation
Date	Start	End	HH:MM	(m ³)	Bypassed	Confected	Bypass		
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Overflow Events

The ECA requires the submission of a summary report of the Overflow Event(s) to the Water Supervisor on a quarterly basis, no later than each of the following dates for each calendar year: February 15, May 15, August 15, and November 15.

The summary reports shall contain, at a minimum:

- the date and time of the beginning of the Overflow;
- the location of the Overflow and the receiver and disinfection status of the Overflow;
- the reason(s) for the Overflow;
- the date and time of the end of the Overflow;
- the measured or estimated volume of Overflow;
- the mitigation measures taken;
- Samples collected;
- Assessment of the impact of the Event(s) on plant operation and the receiver;
- Planned mitigation strategies, as appropriate.

Data	Tir	ne	Duration	Volume	Dessiver	Disinfection	Samples	Reason	Impact of	Mitigation:
Date	Start	End	HH:MM	(M ³)	Receiver	Overflow	Conected	Overflow	Event	Planned
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Thanks,

Karla

Karla Young Process & Compliance Technician Grey-Bruce/Bruce Hubs Georgian Highlands Region **Ontario Clean Water Agency** <u>kyoung@ocwa.com</u> (519) 374 - 5782



Appendix E Septage Laboratory Results

Sampler					Sept	Station Acronym		-ax: Email;	Address						(
Name:					Sept	Station Number (Short Name)			ē.						
		-	a han	1.0	· · · ·			(519	18 C Sour	Rep		Iden	Quo	Fac	VVd
DAN C					Septage - Holding Tank	Sample Location Name	Sample	nev2@ocwa.com	2aroline Street Ihampton, ON 12L0 374-5782	ort to; Megan Edney	Requested Turnaround Time:	tification of Regulation under which th	te # ched Parameter List	Hity Name Wiarton W	terworks/Project# 11000
ADSA					11:20	Date & Time Collected		(519) 797-308 medney2@oc	18 Caroline St Southampton, N0H 2L0 519-374-5782	Data Transfer		e sample(s) falt: No Requireme	No	WTP	0010
			-		N	# of Bottles		Wa.cor	ON	Conta		ent to F	Yes		
					×	Aluminum		13		ct: Me		Report			l
				-	×	Arsenic				gan Ec		Samp			
				T I	×	Barium				dney		le Res			
Sam				÷	×	Cadmium					App.	ults U			
pler Si				13	×	Calcium						nder A			
gnatur					×	Chromium						ny Rei		1	
					×	Cobalt					24-48	gulatio			
					×	Copper		apwe	136 N Shelb L9V 3 (519)	Invoic	ъ	on for V		Labo	00
AT	1.1		1		×	Iron		sthight	urne, (925-1)	e To:		Vaster		Date F	0
M					×	Lead	Paran	ands(c	938 938	Ontar		water	Tem	Secti ec'd:	10
					×	Magnesium	leters	DOCMA		to Clea	_	Treatn	peralu	S L	
1				1	×	Manganese		com		an Wa	×	nent	Ire Up	AN	2
\square				i.	×	Mercury				Iter Ag			on Re	25	F
AN					×	Nickel				lency	5-7d		celpt	2022	
N/					×	Potassium							5	CX	t
M.					×	Selenium							×	g.	1
1/4					×	Silver							U	=	-
					×	Sodium								me R	1
				<u> </u>	×	Tin		1012			7-10d		540) 	Sampli ac'd:	
			-	1	×	Zinc	L	arrie.	akefie OL 21	abora			ő	e cono	
					1- 250 mL metals bottle preserved with nitric acid 1- glass bottle perserved with HCL for		Comments	preenlaw@sgs.com	ncession St. 4d, ON 10 2-2000	tory: SGS Lakefield Resear	Specify:			lition upon receipt Initials	
	Yes No	Yes	Yes	No	No	Upload to MO	E			rch Lid					
		z é z	t z t												

HESOSHIL 600 #



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

31-January-2022

Date Rec.: 25 January 2022 LR Report: CA13848-JAN22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1:	2:	3:	4:	5:
	Analysis	Analysis	Analysis	Analysis	Sept
	Start Date	Start Time	Completed	Time	Sept-Septage-Hol
Sample Date & Time			2410		24-Jan-22 11:20
Temperature Upon Receipt [°C]					5.0
Aluminum (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.47
Arsenic (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	< 0.002
Barium (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.0824
Cadmium (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	< 0.00003
Calcium (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	151
Chromium (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.0017
Cobalt (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.00021
Copper (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.108
Iron (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	6.61
Lead (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.0018
Magnesium (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	43.9
Manganese (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.194
Mercury (total) [mg/L]	26-Jan-22	12:12	28-Jan-22	15:35	< 0.0001
Nickel (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.005
Potassium (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	41.1
Selenium (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.0005
Silver (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.0030
Sodium (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	374
Tin (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	< 0.0006
Zinc (total) [mg/L]	27-Jan-22	12:41	28-Jan-22	15:35	0.17

ey anderen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

000278750

Page 1 of 1 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS

General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

Sampler						Sept	Station Acronym		mail:	elephon.	ddress:						()
Name:						Sept	Station Number (Short Name)										
						i			medn	(519)	18 Ca South	Repo		Identii	Quota	Facil Org.	Wate
DAN			PA .	A W Wel	19 200	Septage - Holding Tank	Sample Location Name	Sample	av2@ocv/a.com	797-3080	roline Street iampton, ON 2L0	rt to; Megan Edney	equested Turnaround Time:	fication of Regulation under which the	red Parameter List	# 5620	enworks/Project # 11000
) ANSAR						11:30	Collected		[mednev2@c	(519) 797-30	18 Caroline Southampto NOH 2L0	Data Transfe		ne sample(s) fall: No Require	No	VIP	9180
		-				(r)	# of Bottles		cv/a,com	080	n, ON	er Contact		ment to R	Yes		
ŝ	-					×	BODs	F				t' Meg	App	pod	1.1		
mpler	-		-			×	Total Suspended					an Ed	H , 9	Sampl			
Signati	-	_		-		×	Total	1				hey		e Resu		1	
Tajr			-	-		×	TKN	1					24-2	Its Un			
1	-			-		×	Total Ammonia		aow	(519	L9V	Invo	rt 81	der An	1	Lab	0
TO	-	-	1			×	Chemical Oxyger Demand	1	esthighte	9) 925-03	Main St. Iburne, C 3K5	ice To:		y Regula		Date F	CLIN
AT			1			×	Acetone		andsig	122	238 22 п	Ontari		tion fo	Te	Rec'd:	O NO
1	2	1.1.] - 1	1.1		×	Benzene	Paran	ocwa.		1	o Clea		r Was	mpera		1
V	1					×	Ethylbenzene	neters	Com			n Wate	×	ewate	lure U	JAN	
\mathbb{N}				i r		×	Isopropyl Alcoho	1	11			ar Age		r Trea	pon R	25	2
1AA				16		×	Methyl Alcohol					ncy	5-7d	iment	eceipt	202	1
NU				11.4	des.	×	Methylene Chloride								1r	2	10
1P		1		1		×	Methyl Ethyl Ketone	1							X	1 des	2 9
Nº 1	-					×	Methylene Chloride								W	Time	1
1-			1			×	Toluene	1					7-10d	2		Rec'd:	
				1.3		×	Xylene		Cattie	705-6	KoL 2	Labor			°C	ie cut	
				T		 2 - 500 mL PET colles. 1 - 60 mL plastic w/ sulphurc actig peservative, 2 - 40 mL EPA vidis unpreserv (no nedspece). 2 - 40 mL EPA viais w/ sodium isolphate preservative (no headspece) 		Comments	oreaniawiorsos.com	52-6365	H0 52-2000	atory: SGS Lakefield Res	Other Specify:			Initia	
	No	No	No	No	No	a No	Upload to MC	DE				earch Ltd				0	
	No[Ves[No	Nes C	No No	20 20 20 20 20 20	Upload to OCV	NA									
				1 L L L	JUU		-	-	11	1			1. Sec. 1		1	1	

POP 12TN 10:15



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

11-February-2022

Date Rec.: 25 January 2022 LR Report: CA13852-JAN22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					24-Jan-22 11:30
Temperature Upon Receipt [°C]					5.0
Biochemical Oxygen Demand (BOD5) [mg/L]	26-Jan-22	16:26	01-Feb-22	14:06	1480
Total Suspended Solids [mg/L]	26-Jan-22	11:03	27-Jan-22	11:07	207
Chemical Oxygen Demand [mg/L]	01-Feb-22	10:07	01-Feb-22	14:06	2350
Ammonia+Ammonium (N) [as N mg/L]	26-Jan-22	18:14	28-Jan-22	13:05	1.2
Total Kjeldahl Nitrogen [as N mg/L]	26-Jan-22	08:15	28-Jan-22	13:34	51.0
Phosphorus (total) [mg/L]	26-Jan-22	08:15	27-Jan-22	13:27	6.7
Isopropyl Alcohol [mg/L]	08-Feb-22	12:37	11-Feb-22	10:14	< 5
Methyl alcohol [mg/L]	08-Feb-22	12:37	11-Feb-22	10:14	< 5
Acetone [ug/L]	26-Jan-22	20:45	28-Jan-22	10:36	< 1200
Benzene [ug/L]	26-Jan-22	20:45	28-Jan-22	10:36	< 20
Ethylbenzene [ug/L]	26-Jan-22	20:45	28-Jan-22	10:36	< 20
Dichloromethane [ug/L]	26-Jan-22	20:45	28-Jan-22	10:36	< 20
Methyl ethyl ketone [ug/L]	26-Jan-22	20:45	28-Jan-22	10:36	< 800
Toluene [ug/L]	26-Jan-22	20:45	28-Jan-22	10:36	< 20
Xylene (total) [ug/L]	26-Jan-22	20:45	28-Jan-22	10:36	< 20
o-xylene [ug/L]	26-Jan-22	20:45	28-Jan-22	10:36	< 20
m/p-xylene [ug/L]	26-Jan-22	20:45	28-Jan-22	10:36	< 20

u Anderen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

Page 1 of 1 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sos.ca/en/terms-and-conditions (Printed copies are available upon request.)

General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

)		Waterworks/Project #	1100008	10					0	ofCL	SMI	No:		_	2			3				
		Facility Name Wlart Org. # 5620	I MM uo	n_						Dat	ry Sec	d:					F	Si Time Re	ample c	condition upon receipt Initi	als ///	
		Ouote # Attached Parameter List	No		Yes					·		Tempa	EB	Up 0 2	022pt	8	5			1 0	Þ	1
		Identification of Regulation unds	er which the sa	imple(s) fall: No Requirem	ent to Ri	sport Sa	mple R	esults	Juder A	uny Reg	ulation	for We	astewat	er Trea	tment							
		Requested Turnaround Tim	ai			App. Req'		2	4 85-4				×		5-7d			7-	Dod	Other Specify:		
drass.		Report to: Megan Edney 13 Caroline Streat		Data Transfer 18 Caroline St	Contact	Megan	Edney		13	oice To	St. E	ario Cle	an Wa	ler Age	ncy				185	boratory: SGS Lakefield Resi 5 Concession St.	earch Ltd	
andrea		Southampton, UN NOH 2LO 510 274 5723		NOH 2L0	CS				12	V 3K5	NO .								Kol	kefield, ON L 2H0		
x: Tail:		(519) 797-3080 mednev2@ocvia.com		* 019-019-010-000 (519) 797-308 mednev2@000	va.com				(2) (2)	19) 925- westhig	-1332 -0322 hlands	OOCWE	i.com		11				10/	2-652-2000 5-652-6365 rie.greenlaw@sas.com		1.1.1
		Samp	ple									Pare	meters							Comments		
mynonoA noitat2	Station Number (Short Name)	Sample Location N	ame	Date & Time Collected FEB 0 9 2022	# of Boules	\$009	Total Suspended Solids	Phosphorous	TKN sinommA listoT	Chemical Oxygen	Acetone	Benzene	Ethylbenzene	ιοήοριΑ Ιγορίου	Methyl Alcohol	Methylene		Chloride	eneivX	auntu	Hoload in MOE	
Sept	Sept	- Septage - Holding T	х с	09.45	٢	×	×	×	×	×	×	×	×	×	×	×	×	×	× ~	 500 mL PET bollles, 60 mL Pestic W sulphuric acid preservative, 2 - 40 mL EPA visis unpreserve (no headspace). 2 - 40 mL EPA visis w sodium biculphate preservative (no headspace) 	X I SBY	É LE LE
											-	_		-		11					Yes	Inci
						. E (67	- 1				Yes	ETC1
						1					-								_		Yas	m
								-													Yes No	CICI
										-											Yes No	TITI
mpler N	ame.	DAN	CAE	SAR		Sample	er Signe	ture:	-	D	10	1	1	00	2	1						

• •

607887285 445 192045

÷



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

01-March-2022

Date Rec.: 10 February 2022 LR Report: CA13385-FEB22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: t Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hold ing Tank
Sample Date & Time					09-Feb-22 09:45
Temperature Upon Receipt [°C]					9.0
Biochemical Oxygen Demand (BOD5) [mg/L]	11-Feb-22	14:42	16-Feb-22	13:19	455
Total Suspended Solids [mg/L]	11-Feb-22	09:35	14-Feb-22	15:17	259
Chemical Oxygen Demand [mg/L]	11-Feb-22	17:12	16-Feb-22	12:46	2600
Ammonia+Ammonium (N) [as N mg/L]	14-Feb-22	17:32	16-Feb-22	11:22	1.3
Total Kjeldahl Nitrogen [as N mg/L]	11-Feb-22	09:12	14-Feb-22	10:29	48.8
Phosphorus (total) [mg/L]	11-Feb-22	09:12	15-Feb-22	10:39	5.2
Isopropyl Alcohol [mg/L]	24-Feb-22	13:38	01-Mar-22	10:09	< 5
Methyl alcohol [mg/L]	24-Feb-22	13:38	01-Mar-22	10:09	6.7
Acetone [ug/L]	11-Feb-22	13:18	15-Feb-22	12:27	< 1200
Benzene [ug/L]	11-Feb-22	13:18	15-Feb-22	12:27	< 20
Ethylbenzene [ug/L]	11-Feb-22	13:18	15-Feb-22	12:27	< 20
Dichloromethane [ug/L]	11-Feb-22	13:18	15-Feb-22	12:27	< 20
Methyl ethyl ketone [ug/L]	11-Feb-22	13:18	15-Feb-22	12:27	< 800
Toluene [ug/L]	11-Feb-22	13:18	15-Feb-22	12:27	< 20
Xylene (total) [ug/L]	11-Feb-22	13:18	15-Feb-22	12:27	< 20
o-xylene [ug/L]	11-Feb-22	13:18	15-Feb-22	12:27	< 20
m/p-xylene [ug/L]	11-Feb-22	13:18	15-Feb-22	12:27	< 20

ey Anderen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

Page 1 of 1 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS

General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

Facility Name Wiarton WWTP Org. # 5520 Ouote # Attacted Parameter List Ouote # Attacted Parameter List Attacted Parameter List No Identification of Regulation under which the sample(s) Attacted Parameter List No Identification of Regulation under which the sample(s) Attacted Parameter List No Identification of Regulation under which the sample(s) Attacted Parameter List No Identification of Regulation under which the sample(s) Attacted Parameter List No Identification of Regulation under which the sample(s) Requested Turnaround Time: Requested Turnaround Time: Report to: Process & Compliance Technician (PCT) Stample Sample Information Non 2LO Information Non 2LO Information Sample Information Sample Information Sample Information Sample Information Sample Information Sample Information No Information Sample Information Sample Information Sample Information Sample I	Fall: No Requirament to Fall: No Requirament to Pata Transfer Contact 18 Caroline Street Southampton, ON			aborator	Calina				-	-	amma		20	
Choole # Attached Parameter ListNo Identification of Regulation under which the sample(s) Identification of Regulation under which the sample(s) Requested Turnaround Time: Requested Turnaround Time: Requested Turnaround Time: Report 200 Not	Fall: No Requirament to F fall: No Requirament to F Data Transfer Contac 18 Caroline Street Southampton, ON			Date	y secutor		AAR 1	0 207	0	Time R	ec'd:	torian receipt	Initiats	
Identification of Regulation under which the sample(s) Iness: Requested Turnaround Time: Requested Turnaround Time: Report to: Process & Compliance Technician (PCT) Inest: Southampton, ON Not 2L0 No	fall: No Requirament to F Data Transfer Contac 18 Caroline Street Southampton, ON				Ter	perature	Jpon Red	eipt	X	M	-	0		
Requested Turnaround Time: Requested Turnaround Time: Report to: Process & Compliance Technician (PCT) dress: Recurs Strest Southampton, ON None: 519-374-5782 Strest Sample Strest Sample Mame) Sample Strept Sample Septage - Holding Tank OA	Data Transfer Contac 18 Caroline Street Southampton, ON	eport Sample F	esults Unde	er Any Reg	ulation for	Wastewa	ter Treatr	tent						
Arease: Report to: Process & Compliance Technician (PCT) dress: 18 Caroline Street Southampton, ON Street Southampton, ON Non Septinge Sample Image Name Image Sample	Data Transfer Contac 18 Caroline Street Southampton, ON	b App.	24-48	4		×	s	P/2:			-104	Other Specify		
ephone: 18 Caroline Street Southampton, ON Subartion Street Sector Street Stree	18 Caroline Street Southampton, ON	: PCT		Invoice To	: Ontario	Clean Wa	ter Agenc	~			Le l	boratory: SGS Lakefield	Hesearch L	p
ephone: 519-374-5782 c: [[5]9] 737-3080 all: Kyounq@ocvva.com Namber Sample Sample C C C C Mame Sample Sample Sample C C C C C C Short Sample Sample C C C C C C Short Sample Sample C C C C C C C C Short Sample C C C C C C C C C C C C C C C				136 Main Shelburne	St. E						<u> </u>	5 Concession St. kefield, ON 01 2H0		
alt: Kound@oowa.com Stample Number Number Number Sample Sample Location Name C Sample Sample C Sample C C C C C C C C C C C C C C C C C C C	519-374-5782			(519) 925-	1938						22	5-652-2000 E. 652 6265		
Sample Location Name Cation Na	Kyoung@ocwa.com			apwesthig	nlands@o	cwa.com					2 8	o-ooc-oooo rrie.greenlaw@sqs.com		
Part Station Name Control Name Control Name Control Name Control Station Name Control Name Contr					6	arameters						Comments		F
ept Septage - Holding Tank	e & Time V ollected 0 9 2022	BOD ₅ Total Suspended Solids	TKN Phosphorous	negovin Nitrogen Chemical	Acelone	Elhylbenzene Benzene	ιοήορίΑ ίγαριασεί	enelyrtieM	Methyl Ethyl	Methylene	Foluene	auaióy	30M of beold1	
) ®	×	×	×	×	×	×	×	×	×	×	 2 - 500 mL PET toutlas. 2 - 60 mL pitatio wi sulph preservativa. 2 - 60 mL EPA vuls unpre (no headspace), vuls unpre (no headspace) vuls wi so bubplate preservative (r headspace) v 	unic acid sserved Yes drum No	NK AS
						-				Letter.	1		Yes[No[N N
								-			-		Yes No	N N
													No[Ves V
						-		-			-]say	N N
				-		-			1				Yes No	No. Yes
npler Name:	00	Sampler Signa	ture:		A		1	0	h.					

•

÷.

+ 017722/109 #



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

31-March-2022

 Date Rec. :
 10 March 2022

 LR Report:
 CA12458-MAR22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: t Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hold ing Tank
Sample Date & Time					09-Mar-22 09:15
Temperature Upon Receipt [°C]					11.0
Biochemical Oxygen Demand (BOD5) [mg/L]	11-Mar-22	13:00	16-Mar-22	14:17	1760
Total Suspended Solids [mg/L]	11-Mar-22	11:03	14-Mar-22	14:37	267
Chemical Oxygen Demand [mg/L]	11-Mar-22	11:50	16-Mar-22	14:18	2380
Ammonia+Ammonium (N) [as N mg/L]	10-Mar-22	20:23	14-Mar-22	12:45	5.3
Total Kjeldahl Nitrogen [as N mg/L]	11-Mar-22	08:45	15-Mar-22	14:11	58.9
Phosphorus (total) [mg/L]	11-Mar-22	08:45	16-Mar-22	09:11	9.6
Isopropyl Alcohol [mg/L]	29-Mar-22	11:44	30-Mar-22	16:37	< 5
Methyl alcohol [mg/L]	29-Mar-22	11:44	30-Mar-22	16:37	< 5
Acetone [ug/L]	11-Mar-22	14:59	14-Mar-22	13:59	92
Benzene [ug/L]	11-Mar-22	14:59	14-Mar-22	13:59	< 0.5
Ethylbenzene [ug/L]	11-Mar-22	14:59	14-Mar-22	13:59	< 0.5
Dichloromethane [ug/L]	11-Mar-22	14:59	14-Mar-22	13:59	< 0.5
Methyl ethyl ketone [ug/L]	11-Mar-22	14:59	14-Mar-22	13:59	89
Toluene [ug/L]	11-Mar-22	14:59	14-Mar-22	13:59	15.3
Xylene (total) [ug/L]	11-Mar-22	14:59	14-Mar-22	13:59	< 0.5
o-xylene [ug/L]	11-Mar-22	14:59	14-Mar-22	13:59	< 0.5
m/p-xylene [ug/L]	11-Mar-22	14:59	14-Mar-22	13:59	< 0.5

*Note - Isopropyl Alcohol and Methyl alcohol were processed after the recommended holdign tiem of 15 days due to instrumentation delays.

Carrie Greenław

Project Specialist, Environment, Health & Safety

0002847097

Page 1 of 1

Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

3001 MZZ 68 Yes Yes U Yes Yes No No Yes No No Co • Station Acronym. Cell - Otel Controls. Down - Downstream. Ell - Final Filluent, Phy - Primary Bypass, Haw - Flaw Sewage, SCBY - Secondary Bypass, Up - Upstream, Well - Monitoring Well, Aer - Arrelson, Brs - Biosofids Phickening, Bpd - Biosofids primary Supers, Base Super, Bela - Biosofids studge quality, Base - Biosofids and Physes, Phys. Rev. Acros. Down - Downstream. Ell - Final Filluent, Phy - Biosofids studge quality, Base - Biosofids primary according to the primary Treatment Calin - Fillary Treatment, Als - Return Activated Studge, SBH - Secondary Treatment/SBFs, ScEl - State - Researched - Primary Treatment Calin - Primary Treatment, Als - Return Activated Studge, IndV - Industrial Wastewater, PSIn - Pump Sin, ScEl - Dissolved Air Floatation, Gin - Primary Treatment, Als - Return Activated Studge, IndV - Industrial Wastewater, PSIn - Pump Sin, ScEl - Dissolved Air Floatation, Gin - Primary Treatment, Als - Return Activated Studge, IndV - Industrial Wastewater, PSIn - Pump Sin, ScEl - Dissolved Air Floatation, Gin - Filmary Treatment, Als - Return Activated Studge, IndV - Industrial Part - Pump Sin, ScEl - Dissolved Part - Pinary Treatment, Als - Activated Studge, Calin - Totidary Bypass, Holding Tank, CSO - Conditived Saver Overflow, SSO - Stating Saver Overflow, Sover Overflow Hevised: 2022.02.17 Page 1 of 1 logi ielz (AWOO of bsolgU Yes X Vo Yes No Yes No Yes Yes No Laboratory: SGS Lakefield Research Ltd Upload to MOE preservative. 2 - 40 ml. EPA vials unpreserved (no headspace), 2 - 40 ml. EPA vials w/ sodium bisulphate preservative (no Initials 500 mL PET bottles,
 60 mL plastic w/ sulphuric acid Specify: 705-652-2000 705-652-6365 carrie.greenlaw@sgs.com Comments Sample condition upon receipt 185 Concession St. Lakefield, ON (abadsbace) Other 2 KOL 2H0 ç Xylene × D01-7 Time Rec'd: M Toluene × R Methylene Chloride × Revision #2 Ketone Methyl Ethyl × Chloride 12/12/ × Methylene Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment Temperature Upon Receipt P1-5 Methyl Alcohol × Invoice To: Ontario Clean Water Agency 136 Main St. E Shelburne, ON sopropyi Alcohol × 50 × Parameters Ethylbenzene (519) 925-1938 (519) 925-0322 powesthighlands@ocwa.com × Benzene × Onlario Clean Water Agency - Request for Laboratory Services and CHAIN OF CUSTODY - SEWAGE (MONTHLY - SEPTAGE - PAGE 1 of 1) Minpulu Laboratory Section Date Rec'd: Acetone × Oxygen Demand × Chemical L9V 3K5 избодім × sinommA listoT 24-48 h × LKN Sampler Signature: Phosphorous × Total Total Suspended Solids × App. × 500s Data Transfer Contact: PCI # of Bottles 8 Yes kyoung@ocwa.com 18 Caroline Street Southampton, ON 519-374-5782 (519) 797-3080 APRIL 28, 202 Date & Time V NOH 2LO 13:15 Collected Report to: Process & Compliance Technician (PCT) PATEL Wiarton WWTP å Sample Location Name Septage - Holding Tank MEET Sample Requested Turnaround Time: 5620 Attached Parameter List NOH 2L0 519-374-5782 (519) 797-3080 kyoung@ocwa.com 18 Caroline Street Southampton, ON Facility Name Org.# Quote # x Station Number (Short Name) Sept Sampler Name: elephone: Address: Sept Email: Station Acronym

Ba RTN 1000



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf

Works #: 110000819 **Project :** PO#017018

17-May-2022

Date Rec.: 29 April 2022 LR Report: CA15705-APR22

000290307

Copy: #1

CERTIFICATE OF ANALYSIS **Final Report**

Analysis	1:	2:	3:	4:	5:
,	Analysis	Analysis Sta	rt Analysis	Analysis	Sept
	Start Date	Time	Completed Date	Completed Time	Sept-Septage-Hold ing Tank
Sample Date & Time					29 Apr 22 12:15
Tomperature Upon Passint [°C]					20-Api-22 13.13
Piecelor Receipt [10]					12.0
Biochemical Oxygen Demand (BOD5) [mg/L]	29-Apr-22	16:38	04-May-22	11:18	3300
Total Suspended Solids [mg/L]	04-May-22	14:27	05-May-22	09:53	6080
Chemical Oxygen Demand [mg/L]	03-May-22	09:04	03-May-22	12:52	12500
Ammonia+Ammonium (N) [as N mg/L]	29-Apr-22	16:30	04-May-22	10:29	429
Total Kjeldahl Nitrogen [as N mg/L]	02-May-22	08:28	06-May-22	13:09	563
Phosphorus (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	39.6
Aluminum (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	1.49
Arsenic (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	0.0056
Barium (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	0.147
Cadmium (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	0.00260
Calcium (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	130
Chromium (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	0.00550
Cobalt (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	0.00420
Copper (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	0.816
Iron (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	8.10
Lead (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	0.00930
Magnesium (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	30.0
Manganese (total) [mg/L]	05-May-22	17:06	06-May-22	14:26	0.375
Mercury (total) [ug/L]	04-Mav-22	10:11	05-Mav-22	14:22	0.06
Nickel (total) [mg/L]	05-May-22	17:06	06-May-22	14:27	0.0131
Potassium (total) [mg/L]	05-May-22	17:06	06-May-22	14:27	173
Selenium (total) [mg/L]	05-May-22	17:06	06-May-22	14:27	0.00160
Silver (total) [mg/L]	05-May-22	17:06	06-May-22	14:27	< 0.00005
Sodium (total) [mg/L]	05-May-22	17:06	06-May-22	14:27	853
Tin (total) [mg/L]	05-Mav-22	17:06	06-May-22	14:27	0.00120
Zinc (total) [mg/L]	05-Mav-22	17:06	06-May-22	14:27	2.69
Isopropyl Alcohol [mg/L]	11-Mav-22	14:24	16-Mav-22	16:03	< 5
Methyl alcohol [mg/L]	11-May-22	14:24	16-May-22	16:03	< 5
Acetone [ua/L]	04-May-22	18:00	05-May-22	10:56	< 1200
Benzene [ug/L]	04-May-22	18:00	05-May-22	10:56	< 20

Page 1 of 2

Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS

General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or



Works #: 110000819

Project: LR Report: PO#017018 CA15705-APR22

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: t Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hold ing Tank
Ethylbenzene [ug/L]	04-May-22	18:00	05-May-22	10:56	< 20
Dichloromethane [ug/L]	04-May-22	18:00	05-May-22	10:56	< 20
Methyl ethyl ketone [ug/L]	04-May-22	18:00	05-May-22	10:56	< 800
Toluene [ug/L]	04-May-22	18:00	05-May-22	10:56	56.8
Xylene (total) [ug/L]	04-May-22	18:00	05-May-22	10:56	< 20
o-xylene [ug/L]	04-May-22	18:00	05-May-22	10:56	< 20
m/p-xylene [ug/L]	04-May-22	18:00	05-May-22	10:56	< 20

Leena

Carrie Greenlaw Project Specialist, Environment, Health & Safety

0002903071

Page 2 of 2 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

608103111969 En 10:30 Est

Revised: 2022.02.17

Revision II2

digestion, Bed - Biasolids sec. digestion, Bps - Biosolids pri super, Bss - Biosolids skudge quality, Bsoq - Biosolids soil quality, DAF - Dissolved Air Floatation, Grit - Primary Treatment/Grit, PET - Primary Effluent, TAS - Return Activated Studge, Star - Biosolids score quality, Bscq - Biosolids soil quality, DAF - Dissolved Air Floatation, Grit - Primary Treatment/Grit, PET - Primary Effluent, TAS - Return Activated Studge, Star - Biosolids soil quality, Bsc - Biosolids and a floatation, Grit - Primary Treatment/Grit, PET - Primary Effluent, TAS - Return Activated Studge, IndW - Industrial Wastewater, PStn - Pump Stn, Sept - Septage, Lett - Leachate, PTr - Primary Treatment, Ale - Actility, Teatment, Ale - Actility, Teatra Bypass, Hold - Holding Tank, GSO - Combined Sewer Overflow, SSO - Sanitary Sever Overflow

ampler N						Sept	Station Acronym		Email:	Fax:	Address:							([]
lame:						Sept	Station Number (Short Name)			.ª								
	-					- A			kyour	(519)	18 Ca	Repo	P	Ident	Quot Attac	Org.	Faci	Wat
MEET						Septage - Holding Tank	Sample Location Name	Sample	ng@ocwa.com	797-3080	aroline Street ampton, ON 2L0	rt to: Process & Compliance Tech	equested Turnaround Time:	fication of Regulation under which	e # hed Parameter List	# 5620	lity Name Wiarton V	erworks/Project # 1100
AT					1		7					nician (the sa	No		INT	800
E						Ā	AN OB					PCT)		mple(s)			σ	19
						:25	e & Time ollected		kyoung@ocwa.	(519) 797-3080	18 Caroline Str Southampton, 0 N0H 2L0	Data Transfer C		fall: No Requireme				
						œ	# of Bottles	N	com		N	ontact		nt to R	Yes			
Sampl	201					×	BODs	Π				PCT	Арр.	eport S				
er Sigr					-	×	Total Suspended Solids							ample				
nature:						×	Total Phosphorous							Result				
						×	TKN						24-48	s Und				
3						×	Total Ammonia Nitrogen		apwes	(519)	136 M Shelb L9V 3	Invoic	7	er Any			Labo	C of
E I		2				×	Chemical Oxygen Demand		sthight	925-19	urne, C K5	e To:		Regul		Date	ratory	CLIN
È					-	×	Acetone		ands(@	322	Zm	Ontari		ation f	=	Rec'd:	Section	N SM
1						×	Benzene	Paran	ocwa.			o Clea		or Wa	emper		on	0
						×	Ethylbenzene	neters	com			n Wate	×	stewate	ature U	MA	61	
						×	Isopropyl Alcohol					er Agei		er Trea	pon R	Y		-
	011					×	Methyl Alcohol					ncy	5-7d	Iment	eceipt	8 20	-	\leq
		9				×	Methylene Chloride								-	122	0	an
						×	Methyl Ethyl Ketone						in	n	S			1
						×	Methylene Chloride								Ŵ	Time	1	2
				a.		×	Toluene						7-100			Rec'd:	Samp	T
					122	×	Xylene		carrie	705-6	185 C Lakef KOL 2	Labor			°C		ole con	S
						2 - 500 mL PET bottes, 2 - 60 mL phastic w/ sulphuric acid preservative, 2 - 40 mL EPA viats unpreserved (<i>on headspace</i>), 2 - 40 mL EPA viats w/ sodium bisulphate preservative (<i>no</i> headspace)		Comments	.greenlaw@sgs.com	52-2000	ioncession St. ield, ON H0	atory: SGS Lakefield Resea	Other Specify:			Initials	dition upon receipt	
	Yes	Yes	Yes	Yes	Yes	No No	Upload to MOE					Irch Ltd				K		
	No C	Yes		No C	Yes		Upload to OCW.	A								5		



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

31-May-2022

Date Rec.: 18 May 2022 LR Report: CA12775-MAY22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hold ing Tank
Sample Date & Time					17-May-22 15:25
Temperature Upon Receipt [°C]					15.0
Biochemical Oxygen Demand (BOD5) [mg/L]	18-May-22	16:30	27-May-22	09:11	930
Total Suspended Solids [mg/L]	19-May-22	07:49	19-May-22	16:18	656
Chemical Oxygen Demand [mg/L]	20-May-22	18:20	27-May-22	09:11	1900
Ammonia+Ammonium (N) [as N mg/L]	20-May-22	21:42	24-May-22	16:04	27.4
Total Kjeldahl Nitrogen [as N mg/L]	19-May-22	15:41	25-May-22	12:17	73.7
Phosphorus (total) [mg/L]	19-May-22	15:41	25-May-22	10:04	7.9
Isopropyl Alcohol [mg/L]	19-May-22	11:57	24-May-22	14:08	< 5
Methyl alcohol [mg/L]	19-May-22	11:57	24-May-22	14:08	< 5
Acetone [ug/L]	20-May-22	09:23	31-May-22	14:22	< 1200
Benzene [ug/L]	20-May-22	09:23	31-May-22	14:22	< 20
Ethylbenzene [ug/L]	20-May-22	09:23	31-May-22	14:22	< 20
Dichloromethane [ug/L]	20-May-22	09:23	31-May-22	14:22	< 20
Methyl ethyl ketone [ug/L]	20-May-22	09:23	31-May-22	14:22	< 800
Toluene [ug/L]	20-May-22	09:23	31-May-22	14:22	< 20
Xylene (total) [ug/L]	20-May-22	09:23	31-May-22	14:22	< 20
o-xylene [ug/L]	20-May-22	09:23	31-May-22	14:22	< 20
m/p-xylene [ug/L]	20-May-22	09:23	31-May-22	14:22	< 20

Carrie Greenlaw Project Specialist, Environment, Health & Safety

0002919413

Page 1 of 1

Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

Sampler						Sept	Station Acronym		Email:	Fax:	Address		2				1	
Name:						Sept	Station Number (Short Name)			ie:								
-	-	1.1.1		-					kyoun	(519-3	18 Ca South NOH 2	Repor	R	Identit	Attach	Org.	Facil	Wate
DAN C						Septage - Holding Tank	Sample Location Name	Sample	g@ocwa.com	797-3080	rofine Street ampton, ON L0	t to: Process & Compliance Techni	equested Turnaround Time:	ication of Regulation under which the	# red Parameter List	# 5620	ity Name Wiarton W	prworks/Project # 11000
PEAR						10:5	Date & T Collect JUN 2 1		kyo	(51	N0	cian (PCT) Da		ne sample(s) fall: N	No		NTP	0819
1						8	2022		oung@ocwa.c	9) 797-3080	Caroline Stre uthampton, C H 2L0	ta Transfer C		o Requiremen				
						8	# of Bottles		mo		ŽĘ	ontact:		nt to Re	Yes	1		
Sampl		1		-		×	BOD ₅					PCT	App.	port S				
ler Sig						×	Total Suspended Solids							ample				
nature		i				×	Total Phosphorous						-	Result				
						×	TKN				I		24-48	s Unde				
1 -		1				×	Total Ammonia Nitrogen		apwes	(519)	136 M Shelbu L9V 3	Invoic	-	er Any		11	Labor	Cof
9		1		1		×	Chemical Oxygen Demand		thighta	925-03	ain St. Ime, C	e To: 0	11.11	Regula		Date F	atory	CLIN
8.		1.1		1	_	×	Acetone		inds@	22	žm	Ontario		ation fo	T	Rec'd:	Sectio	IS No
						×	Benzene	Paran	ocwa.			Clear		or Was	mpera		ă	č
0	t = 1	i				×	Ethylbenzene	leters	om			1 Wate	×	tewate	ture U	JUN		Š
8	1.1	1		1		×	Isopropyi Alcoho					r Ager	1.1	r Trea	pon Re	22		Z
¥	-	1	1			×	Methyl Alcohol					icy	5-7d	Iment	sceipt	2022		1
Nº						×	Methylene Chloride							1	~	T		2
	-			1.00	-	×	Ketone								X	1		X
			1	175	-	×	Chloride									Time R		}
		123				×	Toluene					_	7-10d			ec'd:	Sample	
	1					X	Xylene		ame.	705-65	akelie Akelie	abora			°C		e cond	
						2 - 500 mL PET bottles, 2 - 60 mL plastic w/ sulphuric acid presorvative, 1745 or calive, 16 headspace), 40 mL EPA vials w sodium isulphale preservative (no leadspace)		Comments	reenlaw@sqs.com	2-6365	bid, ON	tory: SGS Lakefield Resear	Other Specify:			Inilals	ition upon receipt	
	No	No	No	No	Yes No		Upload to MO	E				rch Ltd						
	Yes No	No	No	No	No[] Yes N₀□	Upload to OCV	VA									Ľ	

2. 2

+

SILON M

Page 1 of 1



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

29-June-2022

Date Rec. : 22 June 2022 LR Report: CA13722-JUN22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hold ing Tank
Sample Date & Time					21-Jun-22 10:20
Temperature Upon Receipt [°C]					18.0
Biochemical Oxygen Demand (BOD5) [mg/L]	23-Jun-22	17:07	28-Jun-22	13:40	1490
Total Suspended Solids [mg/L]	28-Jun-22	07:53	29-Jun-22	15:42	158
Chemical Oxygen Demand [mg/L]	23-Jun-22	12:53	28-Jun-22	13:40	1720
Ammonia+Ammonium (N) [as N mg/L]	24-Jun-22	21:59	29-Jun-22	08:31	86.2
Total Kjeldahl Nitrogen [as N mg/L]	23-Jun-22	16:42	27-Jun-22	11:16	109
Phosphorus (total) [mg/L]	23-Jun-22	16:42	28-Jun-22	12:24	9.1
Isopropyl Alcohol [mg/L]	23-Jun-22	13:26	24-Jun-22	12:34	< 5
Methyl alcohol [mg/L]	23-Jun-22	13:26	24-Jun-22	12:34	< 5
Acetone [ug/L]	24-Jun-22	12:28	27-Jun-22	13:27	< 1200
Benzene [ug/L]	24-Jun-22	12:28	27-Jun-22	13:27	< 20
Ethylbenzene [ug/L]	24-Jun-22	12:28	27-Jun-22	13:27	< 20
Dichloromethane [ug/L]	24-Jun-22	12:28	27-Jun-22	13:27	< 20
Methyl ethyl ketone [ug/L]	24-Jun-22	12:28	27-Jun-22	13:27	< 800
Toluene [ug/L]	24-Jun-22	12:28	27-Jun-22	13:27	42.7
Xylene (total) [ug/L]	24-Jun-22	12:28	27-Jun-22	13:27	< 20
o-xylene [ug/L]	24-Jun-22	12:28	27-Jun-22	13:27	< 20
m/p-xylene [ug/L]	24-Jun-22	12:28	27-Jun-22	13:27	< 20

Carrie Greenlaw Project Specialist, Environment, Health & Safety

Page 1 of 1 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS

General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

Impler 1						Sept	Station Acronym		Email:	Fax:	Address:						())
Vame:						Sept	Station Number (Short Name)			e:							
	-			24	100	1 U			medn	519-3	18 Ca South	Repo	R	Identi	Quote	Faci Org.	Wat
DAN CAR						Septage - Holding Tank	Sample Location Name	Sample	ley2@ocwa.com	374-5782 797-3080	aroline Street nampton, ON 2L0	rt to: Megan Edney	tequested Turnaround Time:	fication of Regulation under which th	e # hed Parameter List	lity Name Wiarton W # 5620	erworks/Project # 11000
SAR						11:30	Date & Time Collected JUL 1 2 2022		medney2@oc	519-374-5782	18 Caroline St Southampton, N0H 2L0	Data Transfer		ie sample(s) fall: No Requireme	No	WTP	6LR00
		-		10.1	-	N	# of Bottles		va.con		ON	Contac		nt to F	Yes		
				1.4		×	Aluminum					t: Meg		eport			
						×	Arsenic					gan Ec		Sampl			l
				10-00		×	Barium					Iney		e Res			
Samp						×	Cadmium						App.	ults U			
ler Sig						×	Calcium							nder A			
nature	_					×	Chromium							ny Reg			
			1	1.1		×	Cobalt	11					24-48	gulatio			
DA						×	Copper		apwes	(519)	136 M Shelb	Invoic	7	n for V		Labo	Cof
Sa		-				×	Iron	-	thight	925-10	lain St urne, (K5	e To:		Vastev		ratory Date R	CLI
1						×	Lead	aram	ands@	322	Zm	Ontari		vater	Tem	Secti ec'd:	N SM
02			1.1			×	Magnesium	eters	ocwa.			o Clea		Freatm	peratu	JL	
2020		-	-			×	Manganese		com			in Wat	×	ient	re Upo	2	WIN
Ma	-	_	-			×	Mercury					er Ag	10		on Rec	ŝ	1
		-	-		_	×	Nickel					ancy	-7d		eipt	022	-
		-	-	_		×	Potassium								11	Ø	M
		-				×	Selenium									q	K
		-	-			×	Silver									Ŧ	8
		-	1	-		×	Sodium						7	1	-	S ne Re	÷.
		-				~	Zine	$\left \right $	Ca	5 7	25.5	5	Tod		N	ample	
	1		-		-	P 1-	Zinc	Н	urrie.qr	5-652	35 Con akefielo	aborate			o	condi	
	23.2	×		~ ~	***	250 mL metals bottle y preserved with nitric acid 1- glass bottle rrserved with HCL for		Comments	eenlaw@sgs.com	-2000	icession St. 3, ON	ry: SGS Lakefield Research	her Specify:		C	tion upon receipt	
			s es	es	es es	No No	Upload to MO	E				hLid					
	Yes	Yes Yes	Yes No	Yes No	Yes No	Yes No	Upload to OCW	VA									÷

10:30 141800 mtg



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

20-July-2022

Date Rec. : 13 July 2022 LR Report: CA12362-JUL22

0002982429

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					12-Jul-22 11:30
Temperature Upon Receipt [°C]					17.0
Aluminum (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	0.546
Arsenic (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	0.0016
Barium (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	0.124
Cadmium (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	0.000140
Calcium (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	79.8
Chromium (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	0.00208
Cobalt (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	0.000445
Copper (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	0.138
Iron (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	9.69
Lead (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	0.00263
Magnesium (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	26.5
Manganese (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:49	0.196
Mercury (total) [mg/L]	15-Jul-22	12:23	15-Jul-22	15:51	0.00004
Nickel (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:50	0.0040
Potassium (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:50	56.5
Selenium (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:50	0.00109
Silver (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:50	0.00016
Sodium (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:50	185
Tin (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:50	0.00244
Zinc (total) [mg/L]	19-Jul-22	16:36	20-Jul-22	14:50	0.156

Page 1 of 2 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples.

lest method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or



Works #: 110000819 Project: LR Report: PO#017018 CA12362-JUL22

0002982429

seda ne

Carrie Greenlaw Project Specialist, Environment, Health & Safety

Page 2 of 2 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

	- 8					Address:	Telephon	Email:		Station Acronym	Sept					hi.	Sampler	* Station Ac digestion, B
							e:			Station Number (Shert Name)	Sept						Name:	ronym: Cell - sd - Biosolidi
Wate	Facili Org.	Quote	Identif	R	Repor	18 Ca South: NOH 2	519-3	kyoun				-	-	_	-			Cell Co
rworks/Project # 11000	ty Name Wiarton W # 5620	# ed Parameter List	cation of Regulation under which t	quested Turnaround Time:	to: Process & Compliance Techn	roline Street ampton, ON L0	74-5782	g@ocwa.com	Sample	Sample Location Name	Seplage - Holding Tank						Dans C	ntents, Dis - Disinfection, Down - Downstre
V 6180	WTP	No	he sample(s) fall: No Requireme		ician (PCT) Data Transfer (18 Caroline Str Southampton, N0H 2L0	519-374-5782	kyoung@ocwa		Date & Time Collected JUL 17 2022	11:30						ARSAR	am, Ett - Final Etlluent, PrBy - Primary E
		Yes	ent to Re		Contact:	ON		.com		# of Bottles	8					12		Sypass, Ra
			sport S	App.	PCT					BOD5	×						Samp	w - Ray
			ample						1	Total Suspended Solids	×		-				oler Sig	v Sowag
Ľ			Resul						1	Total Phosphorous	×						Inature	e. ScBy
			ts Und	24-48						TKN	×							- Secon
Cor	Labor	-	er Any	'n	Invoic	136 M Shelb L9V 3	(519)	apwes		Total Ammonia Nitrogen	×						28	dary Byp
CLIN	Date I		Regul		e To:	urne, 0 K5	925-19	sthight		Cnemical Oxygen Demand	×						2	Dass, Up
N SN	Section Rec'd:	T	ation fo		Ontani	Z m	938	ands@		Acetone	×						0	- Upstr
Ľ	š	mpera	or Was		o Clea			ocwa,	Paran	Benzene	×						à	eam, We
MIN	JE .	ture U	tewate	×	n Wate			com	neters	Ethylbenzene	×						No.	sit - Mon
Ť	1.0	pon R	ar Trea		r Ager				1	Isopropyi Alcohol	×	-	_				1	itoning W
-	202	eceipt	Iment	5-7d	ncy					Methyl Alcohol	×		-	-				fell, Aei
K	2 +	Ι,								Methylene Chloride	×							- Aerali
14	2º									Methyl Ethyl Ketone	×					1		on, Brs-
10	Time F									Methylene Chloride	×	1) - 1	Biosoli
ľ	Samp Rec'd:	T		7-10d			Į.			Toluene	×							ds-raw s
	le con	°C			Labor	185 C Lakefi KOL 2	705-6	carrie.		Xylene	×	23						ludge, E
	dition u	X		Other	atory: S	eld, ON HO	52-200	greenla			2 - 500 n 2 - 60 ml 2 - 60 ml 2 - 40 ml 2 - 40 ml 2 - 40 ml bisulpha bisulpha							3th - Bios
	pon receipt Initials			Specify:	GS Lakefield Resea	ion St.		w@sqs.com	Comments		1. PET bollis, plastic w/ sulphuric acid live, EPA vials unpreserved space), EPA vials w/ sodium EPA vials w/ sodium EPA vials w/ sodium e preservalive (no ce)							olids thickening, Bpd - Bio
					rch Ltd				E	Upload to MOI	No No	Yes	Ves	Ves	Yes	No No		solids prim
									VA	Upload to OCW		Nos	Yes	No No		No		ary



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

22-July-2022

Date Rec. : 13 July 2022 LR Report: CA12363-JUL22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hold ing Tank
Sample Date & Time					12-Jul-22 11:30
Temperature Upon Receipt [°C]					17.0
Biochemical Oxygen Demand (BOD5) [mg/L]	14-Jul-22	17:19	19-Jul-22	12:59	2000
Total Suspended Solids [mg/L]	14-Jul-22	10:40	15-Jul-22	12:52	562
Chemical Oxygen Demand [mg/L]	14-Jul-22	07:44	19-Jul-22	12:59	2380
Ammonia+Ammonium (N) [as N mg/L]	14-Jul-22	17:46	18-Jul-22	11:58	121
Total Kjeldahl Nitrogen [as N mg/L]	15-Jul-22	15:14	18-Jul-22	13:13	163
Phosphorus (total) [mg/L]	15-Jul-22	15:14	20-Jul-22	12:52	13.0
Isopropyl Alcohol [mg/L]	21-Jul-22	13:23	22-Jul-22	15:26	< 5
Methyl alcohol [mg/L]	21-Jul-22	13:23	22-Jul-22	15:26	< 5
Acetone [ug/L]	15-Jul-22	07:44	18-Jul-22	10:52	< 1200
Benzene [ug/L]	15-Jul-22	07:44	18-Jul-22	10:52	< 20
Ethylbenzene [ug/L]	15-Jul-22	07:44	18-Jul-22	10:52	< 20
Dichloromethane [ug/L]	15-Jul-22	07:44	18-Jul-22	10:52	< 20
Methyl ethyl ketone [ug/L]	15-Jul-22	07:44	18-Jul-22	10:52	< 800
Toluene [ug/L]	15-Jul-22	07:44	18-Jul-22	10:52	< 20
Xylene (total) [ug/L]	15-Jul-22	07:44	18-Jul-22	10:52	< 20
o-xylene [ug/L]	15-Jul-22	07:44	18-Jul-22	10:52	< 20
m/p-xylene [ug/L]	15-Jul-22	07:44	18-Jul-22	10:52	< 20

ey anderen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

Page 1 of 1 Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS

General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

OntselProject # 110000819 C of C LINGS No: MULL Name Wiarton WUTP S620 Tempenture Upon R Feature tal	107 Sample condition upon	Time Rec'd:	sceipt 23x3 °c	tment	5-7d 7-10d Other	tcy Laboratory: SGS	Lakefield, ON Koll 240	705-652-2000 705-652-6365 carrie.greenlaw@		3	Methyl Alcohol Methylene Chloride Methyl Ethyl Kelone Toluene Toluene Toluene	X X X X 2-500 mL Pl 2-500 mL Pl 2-60 mL Pla presentative, 2-40 mL EP 5-40 mL EP 5-40 mL EP 5-40 mL EP 5-40 mL EP 5-40 mL EP			
Name Vitarton WWTP Name Wilarton WWTP 5620 Signal Farameter List Image 5620 Signal 1000 Second 1000 Second 1000 Second 1000 Second 1001 Second 1011 Sec	C of C LIMS No: HUL	Date Rec'd:	Temperature Upon Re	der Any Regulation for Wastewater Treal	вн 🗍 🗙	Invoice To: Ontario Clean Water Agen	136 Main St. E Shelburne, ON L9V 3K5	(519) 925-1938 (519) 925-0322 apwesthiohlands@ocwa.com		Parameters =	Total Armoula Nitrogen Chemical Oxygen Demand Acetone Benzene Ethylbenzene Isopropyl Alcoho	× × × × × ×			Mar Date
Name Wiarton WWTF Name Wiarton WWTF Parameter List 5620 EParameter List No bion of Regulation under which the sam uested Tumaround Time: Define Street Sample Location Name Scholan (F ne Street Septage - Holding Tank A	6		Yes	ple(s) fall: No Requirement to Report Sample Results Un	b Арр. 24-4	CT) Data Transfer Contact: PCT	18 Caroline Street Southampton, ON NOH 2L0	519-374-5782 (519) 797-3080 kvenno@ocwa com	THE		Date & Time Date & Time Collected Dog - O4-2002 DG - O4-2002	10 ; 55 8 × × ×			Sampler Signature:
	erworks/Project # 11000081	try Name VVIartori VVVIr # 5620	a # hed Parameter List No	fication of Regulation under which the same	equested Tumaround Time:	rt to: Process & Compliance Technician (P	aroline Street tampton, ON 21.0	797-3080	ng(@ocwa.com	Sample	Sample Location Name	Septage - Holding Tank			MEET DAY

Pure R 930



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

11-August-2022

Date Rec.: 05 August 2022 LR Report: CA12217-AUG22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Holdi ng Tank
Sample Date & Time					04-Aug-22 10:55
Temperature Upon Receipt [°C]					23.0
Biochemical Oxygen Demand (BOD5) [mg/L]	05-Aug-22	16:56	10-Aug-22	13:03	1940
Total Suspended Solids [mg/L]	10-Aug-22	10:59	11-Aug-22	08:34	6810
Chemical Oxygen Demand [mg/L]	09-Aug-22	13:12	10-Aug-22	13:04	3150
Ammonia+Ammonium (N) [as N mg/L]	09-Aug-22	22:15	11-Aug-22	10:32	192
Total Kjeldahl Nitrogen [as N mg/L]	09-Aug-22	15:33	11-Aug-22	11:44	474
Phosphorus (total) [mg/L]	09-Aug-22	15:33	11-Aug-22	14:02	69.4
Isopropyl Alcohol [mg/L]	09-Aug-22	12:18	11-Aug-22	14:34	< 5
Methyl alcohol [mg/L]	09-Aug-22	12:18	11-Aug-22	14:34	< 5
Acetone [ug/L]	10-Aug-22	16:35	11-Aug-22	12:34	< 1200
Benzene [ug/L]	10-Aug-22	16:35	11-Aug-22	12:34	< 20
Ethylbenzene [ug/L]	10-Aug-22	16:35	11-Aug-22	12:34	< 20
Dichloromethane [ug/L]	10-Aug-22	16:35	11-Aug-22	12:34	< 20
Methyl ethyl ketone [ug/L]	10-Aug-22	16:35	11-Aug-22	12:34	< 800
Toluene [ug/L]	10-Aug-22	16:35	11-Aug-22	12:34	103
Xylene (total) [ug/L]	10-Aug-22	16:35	11-Aug-22	12:34	< 20
o-xylene [ug/L]	10-Aug-22	16:35	11-Aug-22	12:34	< 20
m/p-xylene [ug/L]	10-Aug-22	16:35	11-Aug-22	12:34	< 20

ey anderen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

Page 1 of 1

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

Om Ac-rel 10:00 P.608 193 177 854

Revised: 2022.02.17

Revision #2

*Station Acronym: Cell - Cell Contents, Dis- Disinfaction, Down-Ibownstream, Eff - Final Effluent, PrBy - Primary Bypass, Raw - Raw Sewage, ScBy - Secondary Bypass, Up - Upstream, Well - Monitoring Well, Arr - Anation, Brz - Biosolids risk siudge, Bth - Biosolids Indexining, Bpd - Biosolids soc. digestion, Brz - Biosolids pri super, Bss - Biosolids and super, Bsiq - Biosolids sudge quality, Beq - Biosolids sol quality, DAF - Discolved Air Folatation, Grit - Primary Treatment/Gift, PrE1 - Primary Effluent, RAS - Return Activated Studge, SBF - Secondary Treatment/SBRs, SEF - Secondary Effluent, ITWAS - These Activated Studge, WAS - Waste Activated Studge, IntW - Industrial Wastewater, PSn - Pump Stn, Sept - Septage, Lcht - Leachate, PrTr - Primary Treatment, ReAr - Re-aeration, Tert - Tertiary Treatment, Allo - Actifto, TeBy - Tertary Bypass, Hold - Holding Tank, CSO - Combined Sever Overflow, SSO - Sanitary Sever Overflow

Sampler						Sept	Station Acronym		Email:	Fax:	Telephon	Address:						
Name:		4				Sept	Station Number (Short Name)				e							
						i			kyou	(519)	519-	NOH South	Repo	1	7	Ident	Quot	Faci Org.
DAN CI						Septage - Holding Tank	Sample Location Name	Sample	ng@ocwa.com) 797-3080	374-5782	aroine Street hampton, ON 2L0	ort to: Process & Compliance Lechn		Requested Turnaround Time:	ification of Regulation under which I	e # hed Parameter List	Hity Name Wiarton W # 5620
AESAR	UNativ	(Kayle	Comp 14	1500		10:15	Date & Time Collected AUG 0 9 2022		kyoung@ocwa	(519) 797-3080	519-374-5782	Southampton, NOH 2L0	ician (PCI) Data Transiel C			the sample(s) fall: No Requireme	No	WTP
	1	10		9		œ	# of Bottles		com			N	COLIGIA			ant to R	Yes	
Sam	2	5	0			×	BOD ₅							DOT	App.	eport S		
pler Sig		5	38			×	Total Suspended Solids									ample		
gnature				10		×	Total Phosphorous									Result		
	1			6		×	TKN								24-48	s Unde		
00			-	-	-	×	Total Ammonia Nitrogen		apwes	(519)	(519)	Shelb L9V 3	136 M	Invinin	7	ar Any		Labor
2	1					×	Chemical Oxygen Demand	1	autouros	925-03	925-19	urne, C K5	ain St	a To		Regula		Date F
8						×	Acetone		anosta	322	856	N	T	Ontani		ation to	Te	Sectio
0			-			×	Benzene	Paran	DUWd.				0.000	Clea	_	or Was	mpera	
es						×	Ethylbenzene	neters	COLL					Wate	×	tewate	ture U	A
24						×	Isopropyl Alcoho	4						Ane		r Trea	pon R	UG 1
L.		E				×	Methyl Alcohol						1	ICV	5-7d	tment	eceipt	=
						×	Methylene Chloride		1								-	2022
						×	Methyl Ethyl Ketone		11								+5	
		KEI.				×	Methylene Chloride		11	1							14	Time F
						×	Toluene		11						7-10d		1	Samp
						×	Xylene			camie.	705-60	KoL 2	185 C	Labora			°c	e cono
						 2 - 500 mL PET bottles, 2 - 60 mL plastic w/ sulphuric acid preservative, 2 - 40 mL EPA vials unpreserved (no headspace), 2 - 40 mL EPA vials w/ sodium bisulphale preservative (no hoadspace) 		Comments		oreenlaw@sgs.com	22-2000	HO HO	oncession St.	atory: SGS Lakefield Reseam	Other Specify:			intion upon receipt Initials
and into and	No	No	Na	No	No		Upload to MC	DE						th Ltd				0
	No	No O			Yes	Ves X	Upload to OC	WA										7

Page 1 of 1

Ontario Clean Water Agency - Request for Laboratory Services and CHAIN OF CUSTODY - SEWAGE (MONTHLY - SEPTAGE - PAGE 1 of 1)

Laboratory Section C of C LIMS No:

(1

1

Sample condition upon receipt

Waterworks/Project # 110000819



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

26-August-2022

Date Rec.: 10 August 2022 LR Report: CA12399-AUG22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Holdi ng Tank
Sample Date & Time					09-Aug-22 10:15
Temperature Upon Receipt [°C]					16.0
Biochemical Oxygen Demand (BOD5) [mg/L]	11-Aug-22	16:34	16-Aug-22	11:55	468
Total Suspended Solids [mg/L]	13-Aug-22	11:54	15-Aug-22	14:09	167
Chemical Oxygen Demand [mg/L]	15-Aug-22	10:45	16-Aug-22	10:56	1380
Ammonia+Ammonium (N) [as N mg/L]	12-Aug-22	09:15	16-Aug-22	14:13	108
Total Kjeldahl Nitrogen [as N mg/L]	15-Aug-22	13:12	17-Aug-22	12:55	104
Phosphorus (total) [mg/L]	15-Aug-22	13:12	17-Aug-22	14:16	30.1
Isopropyl Alcohol [mg/L]	24-Aug-22	10:50	25-Aug-22	16:30	< 5
Methyl alcohol [mg/L]	24-Aug-22	10:50	25-Aug-22	16:30	< 5
Acetone [ug/L]	16-Aug-22	19:24	17-Aug-22	16:44	< 1200
Benzene [ug/L]	16-Aug-22	19:24	17-Aug-22	16:44	< 20
Ethylbenzene [ug/L]	16-Aug-22	19:24	17-Aug-22	16:44	< 20
Dichloromethane [ug/L]	16-Aug-22	19:24	17-Aug-22	16:44	< 20
Methyl ethyl ketone [ug/L]	16-Aug-22	19:24	17-Aug-22	16:44	< 800
Toluene [ug/L]	16-Aug-22	19:24	17-Aug-22	16:44	47.0
Xylene (total) [ug/L]	16-Aug-22	19:24	17-Aug-22	16:44	< 20
o-xylene [ug/L]	16-Aug-22	19:24	17-Aug-22	16:44	< 20
m/p-xylene [ug/L]	16-Aug-22	19:24	17-Aug-22	16:44	< 20

Carrie Greenlaw Project Specialist, Environment, Health & Safety

OnLine LIMS

Page 1 of 1 Results relate only to the sample tested. Data reported reported resorted resorted in SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

Facility Varianti (and for the method in the method in the particular standard up of the method in the method i	Fails/Internet Martinon WUTP Lessenter Stand Contraction Stand Contracti	Facili Org. Authord Identi	erworks/Project # 1100	00819			U	of C LIMS No	ä	Ř		8	2						T
Outer Date Transmitter And And And And And And And		Quote Attacl Ident	lity Name Wiarton W # 5620	WTP			E.	boratory Sectic Date Rec'd:	5	EP 1	4 202	2 PC	j.	Sam e Rec'd	ole cond	lítion upon receipt Initial			
Addition of frequencies from the carpolicy fat. No logical condition of frequencies from the carpolicy fat. No logical condition of frequencies from the carpolicy fat. No logical condition of frequencies from the carpolicy fat. No logical condition of frequencies from the carpolicy fat. No logical condition of frequencies from the carpolicy fat. No logical condition of frequencies from the carpolicy fat. No logical condition of frequencies from the carpolicy fat. No logical condition of frequencies from the carbon of the carbon of frequencies from the carbon of the carbon	Interfact of the production of the producting the production of the production of the production of the produ	Identi	e# hed Parameter List					Te	mperatur	e Upon F	Receipt	-	CX C	-	°				Т
Requested Turnerood Tite: Apr. 244th X:2/3 7:10d Other Sport Revened Turnerood Tite: Name South State X:2/3 7:10d Other Sport Revened Turnerood Tite: Name South State X:2/3 X:2/3 X:10d Other Sport Revened Turnerood Name South State X:2/3 X:2/3 X:10d No	Total Split manual function manual funct		lifeation of Regulation under which	the sample(s) fall: No Requirement to F	teport Samp	e Results	Under A	ny Regulation fi	or Waster	water Tre	atment								
Report of the first o	Половите и полови и] <u>∝</u>	equested Tumaround Time:		b App.		4-48 h			×	P2-5	H		7-100	Ē	Other Specify:			
Nontrantificionol (international soutiational (international (international) Nontrantification (international) Nontrantification (international) Nontrantification (international) Internation (N (international) Nontrantification (international) Nontrantification (international) Nontrantification (international) Nontrantification (international) Nontrantification (international) State (international) State (international) Nontrantification (international) Nontrantification (international) Nontrantification (international) Nontrantification (international) State (international) Nontrantification (international) Nontrantification (international) Nontrantification (international) Nontrantification (international) Nontrantification (international) Nontrantification (international) </th <td>Bits Bits Bits<td>Repo</td><td>rt to: Process & Compliance Techn aroline Street</td><td>nician (PCT) Data Transfer Contac 18 Caroline Street</td><td>t: PCT</td><td></td><td>136 136</td><td>oice To: Ontari Main St E</td><td>o Clean V</td><td>Vater Ag</td><td>ency</td><td></td><td></td><td></td><td>Labora 185 Co</td><td>atory: SGS Lakefield Resea oncession St. eld. ON</td><td>arch Ltd</td><td></td><td></td></td>	Bits Bits <td>Repo</td> <td>rt to: Process & Compliance Techn aroline Street</td> <td>nician (PCT) Data Transfer Contac 18 Caroline Street</td> <td>t: PCT</td> <td></td> <td>136 136</td> <td>oice To: Ontari Main St E</td> <td>o Clean V</td> <td>Vater Ag</td> <td>ency</td> <td></td> <td></td> <td></td> <td>Labora 185 Co</td> <td>atory: SGS Lakefield Resea oncession St. eld. ON</td> <td>arch Ltd</td> <td></td> <td></td>	Repo	rt to: Process & Compliance Techn aroline Street	nician (PCT) Data Transfer Contac 18 Caroline Street	t: PCT		136 136	oice To: Ontari Main St E	o Clean V	Vater Ag	ency				Labora 185 Co	atory: SGS Lakefield Resea oncession St. eld. ON	arch Ltd		
1000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 100000 100000 100000 100000 100000 10000000 10000000 10000000 100000000 10000000 100000000	Image: Instruction Image:	South South	nampton, ON 21.0	NOH 2L0			161	/ 3K5 a) 925-1938	ľ						K0L 2H	40 52-2000			
Contraction Contraction Contraction Septer 1 0 5 Septer 1 1 1 Septer 1 1 Septer 1	Instantion Description astronge astronge astronge Sample Location Name. Sample Location Name. Date A Time / Jake A	10ne: 519-5 (519)	374-5782 797-3080	519-514-5162 (519) 797-3080 kvouno@ocwa.com			(51 apv	9) 925-0322 vesthighlands@	ocwa,coi	E					705-65 came.c	02-6365 greenlaw@sgs.com			
All All All All Sample Location Name Sample Location Name All Index Fine All Index Fine All Index Fine All Index Fine Collected Index Fine Colected Index	Simple Date A Time Date Date Date A Time <	EXC.	Sample						Paramet	ers					Π	Comments	Э	AV	
Image: section of the section of th	No Supplies - Holding Tank I O : SS 8 X	Station Station Number (Short Name)	Sample Location Name	Date & Time V Bothes Collected SEPT-13-2022 #	BOD ₅ Total Suspended	Fhosphorous Phosphorous	NXT ElnommA IstoT	місодел Сhəmical Охудел Dəmand Асеіопе	enezne8	eneznediyna IonoolA lyqorqoal	IorioolA IyriaM	Methylene Chloride Methyl Ethyl	Ketone Ketone	Toluene	enelyX		IOM of bisolqU	Upload to OCM	
	In the second	et Sept -	Septage - Holding Tank	8 10 :55	×	×	×	××	×	×	×	×	×	×	×	 Sto mL, PET bottles. E of mL, plastic w/ sulphuric acid acreative. A om L PA vals unpreserved to nucle PA vals unpreserved (no heatspace). A om L PA vials w/ softum bis-uphule preservative (no headspace) 	Ves Xes	Ves X	
	Image: Second						-			-	10		-]21		Yes	Z ^{es}	
	Image: Second					-	-						-				Sex Yes	Z des	
	In Standing MET MET Met Ver Ver<						+					-	+		-	-	Yes	Yes	[m m l
	In Name: MET MET MET Met No No <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td>-</td> <td></td> <td></td> <td></td> <td>Yes</td> <td>Tes No</td> <td>m ml</td>						-			1		1	-				Yes	Tes No	m ml
	Her Name: MEET PATEL Sampler Signature: MATEL Sampler Signature: Sam a Acrown: Call - Cal Contents. Dis - Disinfaction. Down - Downsteaun. Elf- Finiau Filliount, PRI - Piniau Pilliount, PRI - Piniau Pilliount, RAS - Reium Acivated Studge, BIN - Blooolide prinauy: Sampler Signature: Sampler Sidnature: Sampler Sidnature: Sampler Sidnature: Sampler Sidnature: Sampler Sampler Sidnature: Piniau Piliount, RAS - Reium Acivated Studge, IndV - Industria Vastewater, PSIn - Pump SIn, Sept - Soptage, LCh - Leachale, PTIr - Piniau Treatment, Rev - Re-arraion, Tech - Terlian Pinaure, Rev - Re-arrainder, Sampler - Sambar Sawer Overflow, SSO - Saniany Sever Overflow, SSO - Saniany Sever Overflow.																No Class	S S	
Net MET PATEL Sampler Signature: Mured	Acorpurs. Cell - Cell Conteris, Dis- Disinfactur, Down - Downstream, Eff - Final Effuent, PrBy - Frimary Bypass, Raw Raw Sowage, ScBy - Secondary Bypaus, Up - Upstream, Weil - Moniforing Weil, Aer - Avration, Bas - Blosofids rinkated Studge, BIn - Blosofids primary Bypass, Raw Raw Sowage, ScBy - Secondary Bypaus, Up - Upstream, Weil - Moniforing Weil, Aer - Avration, Bas - Blosofids rinkated Studge, BIn - Blosofids fucketing, Bod - Blosofids fucketing, PrBy - Frimary Treatment/Sfti, PrEf - Frimary Efflorent, RAS - Reum Advated Studge, BIn - Blosofids sec super, Bid - Hondrage Statewards, PrE - Frimary Treatment, Alto - Actiflo, TeBy - Tertlany Bypass, Hold - Holding Tank, Content TWAS - Thickneed Waste Activated Studge, WAS - Waste Activated Studge, IndW - Industrial Wastewater, PSIn - Pump Stn, Sept - Septage, Loth - Leadrale, PrTr - Frimary Treatment, Rito - Actiflo, TeBy - Tertlany Bypass, Hold - Holding Tank, Contends, SSO - Sanitary Sever Overlow, SSO - Sanitary Sever Overlow.	oler Name:	MEET	PATEL	Sampler S	ignature:		Martin	4										

1.0

6



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

27-September-2022

Date Rec.: 14 September 2022 LR Report: CA12534-SEP22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Holdi ng Tank
Sample Date & Time					13-Sep-22 10:55
Temperature Upon Receipt [°C]					17.0
Biochemical Oxygen Demand (BOD5) [mg/L]	15-Sep-22	17:00	20-Sep-22	12:57	2100
Total Suspended Solids [mg/L]	16-Sep-22	11:51	20-Sep-22	10:24	3970
Chemical Oxygen Demand [mg/L]	16-Sep-22	16:25	20-Sep-22	12:57	15100
Ammonia+Ammonium (N) [as N mg/L]	17-Sep-22	14:10	20-Sep-22	15:55	93.7
Total Kjeldahl Nitrogen [as N mg/L]	15-Sep-22	10:50	19-Sep-22	10:45	178
Phosphorus (total) [mg/L]	16-Sep-22	16:17	19-Sep-22	13:47	18.4
Isopropyl Alcohol [mg/L]	23-Sep-22	13:00	27-Sep-22	13:08	< 5
Methyl alcohol [mg/L]	23-Sep-22	13:00	27-Sep-22	13:08	< 5
Acetone [ug/L]	20-Sep-22	16:38	22-Sep-22	11:05	< 1200
Benzene [ug/L]	20-Sep-22	16:38	22-Sep-22	11:05	< 20
Ethylbenzene [ug/L]	20-Sep-22	16:38	22-Sep-22	11:05	< 20
Dichloromethane [ug/L]	20-Sep-22	16:38	22-Sep-22	11:05	< 20
Methyl ethyl ketone [ug/L]	20-Sep-22	16:38	22-Sep-22	11:05	< 800
Toluene [ug/L]	20-Sep-22	16:38	22-Sep-22	11:05	56.5
Xylene (total) [ug/L]	20-Sep-22	16:38	22-Sep-22	11:05	< 20
o-xylene [ug/L]	20-Sep-22	16:38	22-Sep-22	11:05	< 20
m/p-xylene [ug/L]	20-Sep-22	16:38	22-Sep-22	11:05	< 20

ey anderen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

Page 1 of 1

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

0		Waterworks/Project #	110000	0819									Cot				4	+	-	5	1	2	i				
()	1	Facility Name Wia	Irton WV	VTP		1							D	atory ale Re	Section Section	CI	14	202	4	R	1	Time	San Rec'd	nple co	andilian upon receipl In	itials	
		Org. # 0.00												1	Temp	eratur	e Upoi	n Rece	alpt -	2	X	3		ŝ			
		Attached Parameter List Identification of Regulation ur	nder which the	No I Sample(s) fall: No Requirem	uent to	Repor	tSamp	le Res	ults Ur	nder A.	ny Reg	ulation	for Wa	aslewe	aler Tr	eatme	E										
		Requested Turnaround T	Time:						App. Req'd	1.15	NE	4-48					×	ν,	P/				7-		Other Specify:		1
		10.11.11.11				1						IF	Invoice	a To:	Ontari	o Clea	in Wat	er Age	Sucy.					Lab	oratory: SGS Lakefield Rese	arch Ltd	
dress		Report to: Process & Comple 18 Caroline Street Southamoton, ON	liance Technic	cian (PCT) Data Transte. 18 Caroline S Southampton	Street , ON	CC. P.	-						136 M Shelbu	ume, C	N.									185 Lake Kol	Concession SL efield, ON 2H0		
Indian	.01	NOH 2L0		519-374-5782	N							T	(519)	925-15	938									705	-652-2000 -652-6365		
XC.	10	(519) 797-3080 [kvounng@ocwa.com		(519) 797-30 Kyoung@ocw	60 va.com							T	Sowde	sthight	ands(c	DOCWA	COM							carr	ie.greenlaw@sgs.com		
		Sa	elme	/		H							İ	Pa	arame	ers		F	F	F	F	F	F	H	Comments	T	AW.
mynoraA nait	Stato Numb (Shou Name	Sample Location	n Name	Date & Time Collected OCT 1 3 302	ZeelinoB to #	munimutA	Arsenic	Bailum	mulmba0	Calcium	Chromium	liedoQ	Copper	lron	реел	mulsangsM	Aansanese	Mercury	Nickel	mulessio4	uninaise.	mulbos	UL	Sinc		IN of peolory	
Sept	Sep	ot - Septage - Holdin	1g Tank	11:15	8	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	Ŷ	×	×	×	1-250 mL metals bottle preserved with nitric aci 1- glass bottle perserve with HCL for Mercury	d Yes d No	
		-			-	-	-													-	-	-		-		Yes[No[ⁱⁱⁱ ⁱⁱⁱ
					-	-				-		1						1			-	-	-			Ves	ș. 2
		-			-	-	-	1					11	1					1		-	-				Yes No	× z
					+	-	-												1	1	-	-		-		Yes	<u>ş</u> z
					-	-	-									1			-		1	-	-			Yes	<u></u>
1	-				-	-							110			1.1					-					Yes	<u>* 2</u>
olome	r Name	Σ	IEET	PATEL					Samp	ler Sig	inature.	1	2	4	Ph	4	1										
Sinton	IIINUOL P	a: : Cell - Cell Contents, Dis - Disintection,	Down - Downstre	nam, Elf - Final Elfluent, PrBy - Prim	ary Bypa	ISS, Raw	- Raw	ogewago,	ScBy-	Second	ary Bypa	-dil.ss	Upstrea	m, Well	1 - Moni	toring W	rell, Ae	- Aeral	ion, Brs n Activa	- Biosol	ids-raw	sludge.	Bth - B	osolids l	thickening, Bpd - Biosolids primary	digestion, Bsd	d - Bioso ickened



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

31-October-2022

 Date Rec. :
 14 October 2022

 LR Report:
 CA12542-OCT22

0003103547

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					13-Oct-22 11:15
Temperature Upon Receipt [°C]					14.0
Mercury (total) [ug/L]	17-Oct-22	10:14	18-Oct-22	10:22	0.01
Aluminum (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.251
Arsenic (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.0047
Barium (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.0494
Calcium (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	96.6
Cadmium (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.000093
Cobalt (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.000350
Chromium (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.00096
Copper (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.0872
Iron (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	5.00
Potassium (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	50.8
Magnesium (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	29.3
Manganese (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.184
Sodium (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	315
Nickel (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.0042
Lead (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.00239
Selenium (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.00080
Tin (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.00236
Silver (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.00021
Zinc (total) [mg/L]	26-Oct-22	20:48	31-Oct-22	13:18	0.174

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.


Works #: 110000819 PO#017018 CA12542-OCT22 Project: LR Report:

0003103547

een a ne

Carrie Greenlaw Project Specialist, Environment, Health & Safety

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or consultable upon request. regulation.

Fully Name Faculty Name Results Results Results Color 4 Scool Dia Pacis COL1111111 Reserved Line Pacis Color 4 Scool Dia Pacis COL1111111 Reserved Line Pacis Color 4 Scool Dia Pacis Color 111111 Reserved Line Pacis Color 4 Color 4 Reserved Line Pacis Line Pacis Line Pacis Color 4 Color 4 Reserved Reserved Line Pacis Line Pacis Reserved to Res		3	aterworks/Project #	1100	00819						5	ofCL	N SWI):0	2	1	8	5	2	ļ	1				
Notes Section Contraction Con)	LE O	acility Name Wis rg.# 562	arton V	VWTP						Lat	borator	y Sect	. 01	E	1 2	127.0	à	μ	Sar te Rec'	nple co d:	ndilion upon	receipt Initials		
Image: Colspan="2">Image: Colspan="2">Image: Colspan="2" Image: Colspan="2">Image: Colspan="2" Image: Colspan="2"		0 Z	uole # lached Parameter List		No		Yes				-		F	empera	ature U	oon Re	Ceipt	20	XT	3	0,				
Revented functional Titlet Revented functional Titlet <th< th=""><th></th><th><u>a</u></th><th>entification of Regulation u</th><th>Inder which</th><th>the sample(s)</th><th>fall: No Requireme</th><th>int to Re</th><th>oort Sar</th><th>nple R</th><th>esults (</th><th>Inder A</th><th>ny Regi</th><th>ulation</th><th>for Wa</th><th>stewate</th><th>r Treat</th><th>ment</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>		<u>a</u>	entification of Regulation u	Inder which	the sample(s)	fall: No Requireme	int to Re	oort Sar	nple R	esults (Inder A	ny Regi	ulation	for Wa	stewate	r Treat	ment								
Amount Territy Territy <th< th=""><th></th><th></th><th>Requested Turmaround</th><th>Time:</th><th></th><th></th><th></th><th>b. App.</th><th></th><th>24</th><th>48 h</th><th></th><th></th><th></th><th>×</th><th></th><th>P2-5</th><th></th><th></th><th>7-1</th><th>Po</th><th>Other</th><th>Specify:</th><th></th><th></th></th<>			Requested Turmaround	Time:				b. App.		24	48 h				×		P2-5			7-1	Po	Other	Specify:		
Mathematication Source Source <t< td=""><td>determent.</td><td>Re</td><td>sport to: Process & Compl Carolina Street</td><td>liance Tech</td><td>Inician (PCT)</td><td>Data Transfer (18 Caroline Str</td><td>Contact:</td><td>CT</td><td></td><td></td><td>136</td><td>oice To.</td><td>Contail St. E</td><td>rio Clea</td><td>n Wate</td><td>r Agen</td><td>cy</td><td></td><td></td><td></td><td>Lab 185</td><td>oratory: SGS Concession</td><td>Lakefield Resear St.</td><td>ch Ltd</td><td>1.1</td></t<>	determent.	Re	sport to: Process & Compl Carolina Street	liance Tech	Inician (PCT)	Data Transfer (18 Caroline Str	Contact:	CT			136	oice To.	Contail St. E	rio Clea	n Wate	r Agen	cy				Lab 185	oratory: SGS Concession	Lakefield Resear St.	ch Ltd	1.1
Mill State	daless;	NON S	outhampton, ON NH 2LD			Southampton, NOH 2L0	NO				Sint	/ 3K5	NO							1	Kol	efield, ON 2H0	2		
Sample Contraction Sample Contraction Contraction Automatic Sample Contraction Sample Contraction Contraction Colles & Time Date & Time Date & Time Date & Time Contraction Colles & Time Date & Time Date & Time Date & Time Contraction Colles & Time Date & Time Date & Time Date & Time Date & Time Colles & Time Date & Time Date & Time Date & Time Date & Time Contraction Contraction Contraction Contraction Contraction Contraction Septage - Holding Tark 11 ; OS X X X Contraction Contraction Contraction Contraction Contraction Septage - Holding Tark 11 ; OS X X X Contraction Contraction X X X X X Contraction Contraction Contraction X X X X Contraction Contraction X X X X X Contraction Contraction Contraction X X X X Contraction Contraction Contracti	elephone: ax:	51 (5) kvi	19-374-5782 19) 797-3080 Dunno@ocwa.com			519-374-5782 (519) 797-3080 kyoung@ocwa.	COM				(51 (51	9) 925-(9) 925-(vesthigt	1938 0322 ilands(Docwa.	COM						705 Carr	-652-6365 ie.greenlaw@	Sqs.com		
Collection Name Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Date & Time Time Date & Time Date & Time Time Date & Time Time Date & Time	-		S	ample					1	l.				Parat	nelers							CC	mments	-	-
Sept - Septage - Holding Tank 11; OS 8 × <	mynoroA noitst2	Station Yumber (Short Mamo)	Sample Location	n Name		ollected	# of Bottles	\$OD\$	sbilo2	Lucations	sinommA listeT	Nitrogen Chemical	Acetone	Benzene	Ethylbenzene	ΙοπορίΑ Ιγαριασεί	Methyl Alcohol	Chloride Chloride	Ketone Ketone	Chloride	Xylene			Upload to MOE	
Sampler Name: MCET PATEL Sampler Signature: MAPMAL	Sept	- Sept	Septage - Holdin	ig Tank	-	1:05	8	×	×	×	× ×	×	×	×	×	×	×	×	×	×	×	 2 - 500 mL Place 2 - 60 mL place preservative, 2 - 40 mL EP (no headspace 2 - 40 mL EP bisulphate prepared 	FT bolilles. tila wi sulphuria acid vials unpreserved e), vials wi spolium stervalive (no	No	<u> </u>
Method Method Method Sampler Name: Method Mathod								11.1	157		-	-								-	-			Yes	nn
Sampler Name: ME ET PATEL Sampler Signature: MW PM 4									-	-	-	_	_							-				Yes No	
Sampler Name: ME ET PATEL Sampler Signature: MW PM 4					1							-	-		1					-				No	nn
Sampler Name: MEET PATEL Sampler Signature: MWPM4																V e e			1,1	-				Yes No	00
Sampler Name: MEET PATEL Sampler Signature: MWPM4								11											-		_			Yes No	nn
	Sampler Na	:eme	Me	TET	PATEL			Sample	r Signa	alure:	4	14	13	5	1										



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf

Works #: 110000819 **Project :** PO#017018

27-October-2022

Date Rec.: 14 October 2022 LR Report: CA12545-OCT22

Copy: #1

CERTIFICATE OF ANALYSIS **Final Report**

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hold ing Tank
Sample Date & Time					13-Oct-22 11:05
Temperature Upon Receipt [°C]					14.0
Biochemical Oxygen Demand (BOD5) [mg/L]	14-Oct-22	17:56	27-Oct-22	13:14	1970
Total Suspended Solids [mg/L]	18-Oct-22	14:53	20-Oct-22	11:15	367
Chemical Oxygen Demand [mg/L]	27-Oct-22	09:43	27-Oct-22	13:13	2820
Ammonia+Ammonium (N) [as N mg/L]	18-Oct-22	21:23	20-Oct-22	13:28	81.5
Total Kjeldahl Nitrogen [as N mg/L]	18-Oct-22	10:41	20-Oct-22	13:43	138
Phosphorus (total) [mg/L]	18-Oct-22	10:41	20-Oct-22	09:47	11.9
Isopropyl Alcohol [mg/L]	18-Oct-22	08:23	20-Oct-22	17:43	< 5
Methyl alcohol [mg/L]	18-Oct-22	08:23	20-Oct-22	17:43	< 5
Acetone [ug/L]	17-Oct-22	15:09	19-Oct-22	08:33	< 1200
Benzene [ug/L]	17-Oct-22	15:09	19-Oct-22	08:33	< 20
Ethylbenzene [ug/L]	17-Oct-22	15:09	19-Oct-22	08:33	< 20
Dichloromethane [ug/L]	17-Oct-22	15:09	19-Oct-22	08:33	< 20
Methyl ethyl ketone [ug/L]	17-Oct-22	15:09	19-Oct-22	08:33	< 800
Toluene [ug/L]	17-Oct-22	15:09	19-Oct-22	08:33	25.9
Xylene (total) [ug/L]	17-Oct-22	15:09	19-Oct-22	08:33	< 20
o-xylene [ug/L]	17-Oct-22	15:09	19-Oct-22	08:33	< 20
m/p-xylene [ug/L]	17-Oct-22	15:09	19-Oct-22	08:33	< 20

Carrie Greenlaw Project Specialist, Environment, Health & Safety

0003098547

Page 1 of 1 Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or

60% agisib 31a, REA R. 4. b

Revised: 2022.02.17

Revision #2

digestion, Bsd - Biosolids sec. digestion, Bps - Biosolids pri super, Bss - Biosolids sec super, Bsiq - Biosolids sudge quality, Bsq - Biosolids sol quality, DAF - Dissolved Air Floatation, Grit - Primary Treatment/Grit, PrE1 - Primary Effluent, RAS - Return Activated Studge, SBR - Secondary Treatment/SBRs, ScE1 - Secondary Effluent, TWAS - Thickened Waste Activated Studge, WAS - Waste Activated Studge, IndW - Industrial Wastewater, PStn - Pump Stn, Sept - Septage, Lcht - Leachate, PrTr - Primary Treatment, Rev - Re-aeration, Tert - Tertiary Treatment, Allo - Actilto, TeBy - Tertiary Bypass, Hold - Holding Tank, GSO - Combined Sever Overflow, SSO - Sanitary Sever Overflow

Sampler						Sept	Station Acronym		Email:	Fax:	Telephor	Address:					
Name:						Sept	Station Number (Short Name)				le:						
		-		10.1					kyour	(519)	519-3	18 Ca	Repo	7	Ident	Quot	Faci Org.
MEET						Septage - Holding Tank	Sample Location Name	Sample	ng@ocwa.com	797-3080	374-5782	aroline Street hampton, ON 910	rt to: Process & Compliance Tech	tequested Turnaround Time:	ification of Regulation under which	e # hed Parameter List	lity Name Wiarton V # 5620
PATEL						10:40	Date & Time Collected NCV -: 03 -2522		kyoung@ocwa.	(519) 797-3080	519-374-5782	18 Caroline Stre Southampton, C	nician (PCT) Data Transfer C		h the sample(s) fall: No Requireme	No	VWTP
						8	# of Bottles		mox			Z	ontact:		nt to R	Yes	
Samp						×	BODs						PCT	App.	eport S		
ler Sig						×	Total Suspended Solids								ample		
nature:						×	Total Phosphorous								Resul		
Ċ.	1					×	TKN							24-48	ts Und		
3	-		12	-		×	Total Ammonia Nitrogen		apwes	(519)	(519)	136 M Shelb	Invoic	-	er Any		Labo
B						×	Chemical Oxygen Demand		sthight	925-00	925-19	urne, (e To:		Regul		Date
R						×	Acetone		ands(o	322	338	Z m	Ontari		ation t	Ħ	Section Rec'd:
T						×	Benzene	Paran	ocwa.				o Clea		or Wa	ampera	NON
						×	Ethylbenzene	nelers	com				n Wat	×	stewat	alure L	0
						×	Isopropyl Alcohol	1					er Age		er Tre	Jpon F	9 20
	1.01					×	Methyl Alcohol						ancy	5-7d	atmen	Receip	n
						×	Methylene Chloride	1							-	R	
						×	Methyl Ethyl Ketone								1	X	4
						×	Methylene Chloride		ľ						1	w	Time
	121			1		×	Toluene	1						7-10			San Rec'o
						×	Xylene	1	carri	705-	705-	185 Lake	Labo			°C	ple co
						 2 - 500 mL PET bottles, 2 - 60 mL plastic w/ subpluric acid preservative, 40 mL EPA viais unpreserved (<i>no hadspace</i>), 40 mL EPA viais w/ sodium bisulphate preservative (<i>no</i> <i>headSpace</i>) 		Comments	a.greenlaw@sgs.com	52-6365	352-2000	Concession St. field, ON	ratory: SGS Lakefield Resea	Other Specify:			ndition upon receipt Initials
	No	Ves	No	No	No		Upload to MOE						ch Lid				
	No[No[No[No[No[Upload to OCW	A									
				JUU								-		11	1.1.1		

Onlario Clean Water Agency - Request for Laboratory Services and CHAIN OF CUSTODY - SEWAGE (MONTHLY - SEPTAGE - PAGE 1 of 1)
Waterworks/Project # 110000819
C of C LIMS No:

C of C LIMS No:

NON

03

Page 1 of 1



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

17-November-2022

Date Rec.: 09 November 2022 LR Report: CA13303-NOV22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time (3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Holdi ng Tank
Sample Date & Time					08-Nov-22 10:40
Temperature Upon Receipt [°C]					8.0
Biochemical Oxygen Demand (BOD5) [mg/L]	10-Nov-22	16:49	15-Nov-22	13:38	2140
Total Suspended Solids [mg/L]	11-Nov-22	13:38	14-Nov-22	16:13	460
Chemical Oxygen Demand [mg/L]	16-Nov-22	08:18	16-Nov-22	12:35	3800
Ammonia+Ammonium (N) [as N mg/L]	11-Nov-22	21:31	14-Nov-22	10:03	38.9
Total Kjeldahl Nitrogen [as N mg/L]	11-Nov-22	07:54	15-Nov-22	12:45	105
Phosphorus (total) [mg/L]	11-Nov-22	07:54	16-Nov-22	11:04	13.0
Isopropyl Alcohol [mg/L]	15-Nov-22	10:08	16-Nov-22	17:13	< 5
Methyl alcohol [mg/L]	15-Nov-22	10:08	16-Nov-22	17:13	< 5
Acetone [ug/L]	12-Nov-22	13:37	17-Nov-22	14:17	< 1200
Benzene [ug/L]	12-Nov-22	13:37	17-Nov-22	14:17	< 20
Ethylbenzene [ug/L]	12-Nov-22	13:37	17-Nov-22	14:17	< 20
Dichloromethane [ug/L]	12-Nov-22	13:37	17-Nov-22	14:17	< 20
Methyl ethyl ketone [ug/L]	12-Nov-22	13:37	17-Nov-22	14:17	< 800
Toluene [ug/L]	12-Nov-22	13:37	17-Nov-22	14:17	< 20
Xylene (total) [ug/L]	12-Nov-22	13:37	17-Nov-22	14:17	< 20
o-xylene [ug/L]	12-Nov-22	13:37	17-Nov-22	14:17	< 20
m/p-xylene [ug/L]	12-Nov-22	13:37	17-Nov-22	14:17	< 20
Methylene Chloride [ug/L]	12-Nov-22	13:37	17-Nov-22	14:17	< 20

Carrie Greentlaw Project Specialist, Environment, Health & Safety

000312466

Page 1 of 1

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.

1	
100	
15.	
1	2

Page 1 of 1

1
-
-
0
-
ш
(2)
~
-
۰.
1.1
1.1
ш.
C
đ.
-
0
05
>
1
₹.
-
-
~
0
5
-
111
10
U
4
2
1
5
S
1
÷.,
5
-
0
-
čΩ.
÷.
~
0
11
0
-
z
2
≤.
ж.
0
-
2
5
10
10
9
0
>
5
S
>
5
2
m
c
0
2
53
-
1
0
-
10
di.
ň.
ř.
do.
~
-
>
2
5
Je
2
-
2
=
10
2
-
5
5
-
0
1
0
21
10
E
ā
v

Facility Name Warton WWTP Org. # 5620 Auchete Farameter Lat Intornation of Regulation under which the sample(s) tail. No Requirement to Report Sample Results Under Any Regulation for Wasteneout Auchete State Sample Compared Tomatoria	C 1 I. 7077 Sample condition upon receipt
Quote # Cuote # Attached Parameter List Nachold Parameter List Attached Parameter List Attached Parameter List Requested Turnaround Time: App. Requested Turnaround Time: App. Reconservice Southampton, ON Not 2LU Not 2LU Not 2LU Not 2LU Not 2LU Not 2LU Not 2LU Southampton, ON Not 2LU Not 2LU <	-C 4 CUCK IIIIE KECO: IIIII MININ CO
Identification of Regulation under which the sample(s) fail: No Requirement to Report Sample Regults Under Any Regulation for Watch the sample(s) fail: No Requirement to Report Sample Regults Under Any Regulation for Watch the sample(s) fail: No Requirement to Report Sample Regults (Direct Any Regulation for Market Markt Markt Market Market Market Market Market Market Market Market M	e Upon Receipt 10 x 3 °c
Requested Tumaround Time: b 2448 h X Report to: Process & Compliance Technician (PCT) Data Transfer Contact: PCT Invoice To: Ontario Clean Water Report to: Process & Compliance Technician (PCT) Data Transfer Contact: PCT Invoice To: Ontario Clean Water Report to: Process & Compliance Technician (PCT) Data Transfer Contact: PCT Invoice To: Ontario Clean Water Report to: Process & Compliance Technician (PCT) Data Transfer Contact: PCT Invoice To: Ontario Clean Water Report to: Process & Compliance Technician (PCT) Data Transfer Contact: PCT Invoice To: Ontario Clean Water NotH 2.10 NotH 2.10 NotH 2.10 NotH 2.10 NotH 2.10 NotH 2.10 Station Station Station Station Station Sample Bencene Bondids TKM Station Statiane Station Sample Sample A X X X X X Sample Sample A X X X X X Sample Sample A X <t< td=""><td>vater Treatment</td></t<>	vater Treatment
Report to: Frequent to: <td>c 5-7d 7-10d Other Specify:</td>	c 5-7d 7-10d Other Specify:
ept Seept - Septage - Holding Tank Sentage - Holding Tank Septage -	ater Agency Laboratory: SGS Lakefield Research Ltd 185 Concession St. Lakefield, ON KOL 2H0
Station Acromym Sample Collected Station Station Station Station Station Station Sample Date & Time Collected Collected Septage Holding Septage Holding Tank Septage Septage Septage Septage	705-652-2000 705-652-6365 2amie.oreenlaw@sos.com
Date & Station Acronym Station State Collected Collected Septage Collected Septage DEC 12 2002 Septage Mitrogen Septage Mark Mark Mark	Comments
sept sept sept septage - Holding Tank V3:50 8 X	Upload to MOE Xylene Chloride Chloride Chloride Methyl Ethyl Ketone Toluene Xylene Xylene Xylene
	X X X X X 2-500 mL PET bottles. 2 - 600 mL Patsto wild subhuric acid preservative. 2 - 00 mL EPA vals unpreserved (vo headspace). No bisuphate preservative (no headspace)
	Xes U
mpler Name: David Concesting Sampler Signature: Sam Capit	and the second

* 2 none vials 2 bisulfale visits.

HCRTN SR. 9:30



OCWA-Grey Bruce (Wiarton WPCP)

Attn : Karla Young

P.O. Box 760 Southampton, ON N0H 2L0, Canada

Phone: 519-797-2561 Fax:pdf Works #: 110000819 Project : PO#017018

23-December-2022

Date Rec.: 14 December 2022 LR Report: CA13443-DEC22

Copy: #1

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Holdi ng Tank
Sample Date & Time					12-Dec-22 13:50
Temperature Upon Receipt [°C]					10.0
Biochemical Oxygen Demand (BOD5) [mg/L]	15-Dec-22	17:27	20-Dec-22	15:28	1290
Total Suspended Solids [mg/L]	16-Dec-22	12:54	19-Dec-22	13:42	241
Chemical Oxygen Demand [mg/L]	19-Dec-22	11:30	20-Dec-22	15:28	1850
Ammonia+Ammonium (N) [as N mg/L]	22-Dec-22	15:03	23-Dec-22	11:03	69.7
Total Kjeldahl Nitrogen [as N mg/L]	15-Dec-22	09:17	21-Dec-22	14:04	94.5
Phosphorus (total) [mg/L]	15-Dec-22	09:17	21-Dec-22	14:56	6.3
Isopropyl Alcohol [mg/L]	21-Dec-22	09:05	23-Dec-22	09:02	< 5
Methyl alcohol [mg/L]	21-Dec-22	09:05	23-Dec-22	09:02	< 5
Acetone [ug/L]	20-Dec-22	08:42	22-Dec-22	13:38	< 1200
Benzene [ug/L]	20-Dec-22	08:42	22-Dec-22	13:38	< 20
Ethylbenzene [ug/L]	20-Dec-22	08:42	22-Dec-22	13:38	< 20
Dichloromethane [ug/L]	20-Dec-22	08:42	22-Dec-22	13:38	< 20
Methyl ethyl ketone [ug/L]	20-Dec-22	08:42	22-Dec-22	13:38	< 800
Toluene [ug/L]	20-Dec-22	08:42	22-Dec-22	13:38	116
Xylene (total) [ug/L]	20-Dec-22	08:42	22-Dec-22	13:38	< 20
o-xylene [ug/L]	20-Dec-22	08:42	22-Dec-22	13:38	< 20
m/p-xylene [ug/L]	20-Dec-22	08:42	22-Dec-22	13:38	< 20

ey anderen

Hawley Anderson, Hon.B.Sc Project Specialist, Environment, Health & Safety

Page 1 of 1

Results relate only to the sample tested. Data reported represents the sample submitted to SGS. Reproduction of this analytical report in full or in part is prohibited without prior written approval. Please refer to SGS General Conditions of Services located at https://www.sgs.ca/en/terms-and-conditions (Printed copies are available upon request.) Test method information available upon request. "Temperature Upon Receipt" is representative of the whole shipment and may not reflect the temperature of individual samples. SGS Canada Inc. Environment-Health & Safety statement of conformity decision rule does not consider uncertainty when analytical results are compared to a specified standard or regulation.