

March 30, 2022

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

RE: 2021 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 2021 Annual Performance Report for the Wiarton Sewage Lagoon System which covers the reporting period of January 1, 2021 to December 31, 2021. 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, 2021 TO DECEMBER 31, 2021

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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.

Table 1. Wiarton Wastewater Treatment System Overview

Facility Name	Wiarton Wastewater Treatment Plant
Facility Type	MBBR 3-cell, Aerated Lagoon3-cell, Sand Filtration, UV disinfection with pumping stations (3)
Plant Classification	
Works Number	20002681
Rated Capacity	4,400 m³/day
Number of Households	1,100
Receiving Water	Colpoy's Bay (Georgian Bay)
Environmental Compliance Approval	ECA 6045-ARDJS7
Certificate of Approval	8-1028-99-006 (Air)

Table 2. Monitoring Program for Wiarton WWTP

Source	Parameter	Frequency	Method
Influent	Flow (m ³)	Daily	Flow Meter
Innuent	BOD ₅ , TSS, TP, TKN	Monthly	External Analysis
	Flow (m ³)	Daily	Flow Meter
	CBOD ₅ , TSS, Total Ammonia Nitrogen (TAN), Total Phosphorus	Bi-Weekly	External Analysis
Effluent	E. Coli	Bi-Weekly	External Analysis
	pH, Temperature	Bi-Weekly	In-House & External Analysis
	Temperature	Bi-Weekly	In-House & 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
MBBR	DO, pH, Temperature, Ammonia	Daily	Online analyzers
WIDDK	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

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
CBOD ₅	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
pH	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 Type	Frequency
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 alcohol, Methylene Chloride,	Grab	Monthly
Methyl ethyl, ketone, Toluene, Xylene		
Metals: Aluminum, Arsenic, Barium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead,	Grab	Quarterly
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.

Table 6. Effluent Limits as per 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			
pН	Maintained between 6.0 to 9.5, inclusive, at all times				
E. Coli	Not to exceed 200 cfu/100 mL geometric mean density from May 15 to September 15				

^{*}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:

Table 7. 2021 Effluent Annual Average Concentrations and Removal Efficiencies

Parameter	Annual Average Concentration	Removal Efficiency
CBOD ₅	2.3	n/a
Total Suspended Solids	4.7	96.6%
Total Phosphorous	0.05	97.8%

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

Table 8. Comparison of Wiarton Wastewater Treatment System Monitoring Data to Effluent Limits, 2021

			OD ₅				nded Soli				sphorou		Tota	al Ammoni	a Nitrogen	(TAN)	Е. С	oli
2021	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	Y	2.9	Y	5.3	Y	7.7	Y	0.03	Y	0.04	Y	0.35	Y	0.52	Y	<2.0	Y
February	2.4	Y	2.3	Y	8.7	Y	8.2	Y	0.04	Y	0.06	Y	0.10	Y	0.15	Y	< 2.0	Y
March	3.6	Y	5.8	Y	4.9	Y	7.9	Y	0.03	Y	0.04	Y	0.09	Y	0.14	Y	<2.0	Y
April	2.5	Y	4.2	Y	4.2	Y	9.5	Y	0.04	Y	0.06	Y	0.10	Y	0.16	Y	<2.0	Y
May	3.4	Y	3.2	Y	4.2	Y	3.9	Y	0.04	Y	0.04	Y	0.19	Y	0.18	Y	1.41	Y
June	2.0	Y	0.8	Y	3.7	Y	1.6	Y	0.06	Y	0.03	Y	0.44	Y	0.19	Y	<2.0	Y
July	2.0	Y	1.8	Y	4.9	Y	4.4	Y	0.04	Y	0.03	Y	0.12	Y	0.11	Y	<2.0	Y
August	2.0	Y	2.1	Y	3.9	Y	4.0	Y	0.03	Y	0.03	Y	0.23	Y	0.24	Y	<2.0	Y
September	2.0	Y	1.6	Y	3.3	Y	2.7	Y	0.04	Y	0.03	Y	0.10	Y	0.08	Y	<2.0	Y
October	2.0	Y	2.3	Y	2.7	Y	3.2	Y	0.03	Y	0.03	Y	0.13	Y	0.15	Y	<2.0	Y
November	2.0	Y	3.6	Y	2.9	Y	5.2	Y	0.03	Y	0.05	Y	0.15	Y	0.27	Y	<2.0	Y
December	2.0	Y	4.0	Y	5.5	Y	11.0	Y	0.03	Y	0.06	Y	0.12	Y	0.25	Y	<2.0	Y

^{*&}quot;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 2021, the effluent was within the effluent limits and ranged from 7.39 to 8.80 with an annual average of 7.88. A monthly summary of pH can be found in Table 9.

Table 9. Monthly Summary of pH for the Wiarton Wastewater Treatment System, 2021

•	Average	Minimum	Maximum
January	7.51	7.42	7.60
February	7.64	7.54	7.73
March	7.68	7.41	7.87
April	7.93	7.93	7.93
May	7.63	7.46	7.77
June	8.03	7.48	8.56
July	7.63	7.49	7.76
August	7.57	7.39	7.78
September	7.75	7.68	7.84
October	8.01	7.91	8.23
November	8.28	8.10	8.44
December	8.62	8.41	8.80

2.4 Effluent Objectives

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

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

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

^{*}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

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 2.32 mg/L and an annual average loading of 2.90 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 69% 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 4.68 mg/L and an annual average loading of 5.53 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 61% of the annual average concentration and approximately 68% 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 0.05 mg/L and an annual average loading of 0.05 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 84% of the annual average concentration and approximately 86% 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 0.17 mg/L and an average loading of 0.19 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 96% of the annual average concentration and approximately 97% 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 Wiarton Wastewater Treatment System Monitoring Data to Effluent Objectives, 2021

	СВ	CBOD ₅		ended Solids	Total Pho	Total Phosphorous To		ionia Nitrogen ΓΑΝ)	
2021	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	Y	5.3	Y	0.03	Y	0.35	Y	
February	2.4	Y	8.7	Y	0.04	Y	0.10	Y	
March	3.7	Y	5.2	Y	0.03	Y	0.10	Y	
April	2.5	Y	4.2	Y	0.04	Y	0.10	Y	
May	3.4	Y	4.2	Y	0.04	Y	0.19	Y	
June	2.0	Y	3.7	Y	0.06	Y	0.44	Y	
July	2.0	Y	4.9	Y	0.04	Y	0.12	Y	
August	2.0	Y	3.9	Y	0.03	Y	0.23	Y	
September	2.0	Y	3.3	Y	0.04	Y	0.10	Y	
October	2.0	Y	2.7	Y	0.03	Y	0.13	Y	
November	2.0	Y	2.9	Y	0.03	Y	0.15	Y	
December	2.0	Y	5.5	Y	0.03	Y	0.12	Y	

^{*&}quot;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 2021 was 448,909 m³ with an annual average daily flow of 1,230 m³/day. Total effluent flows in 2021 have decreased in comparison to 2020 (556,314 m³ and 1,520 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;

Table 12: Influent Characteristics

Parameter	Minimum	Average	Maximum
BOD5 (mg/L)	12	110.3	199
TSS (mg/L)	49	138.6	510
TKN (mg/L)	1.1	18.4	32.1
Total Phosphorous	0.35	2.36	4.74

In 2021, approximately 2,110 m³ of septage was received by the Wiarton Wastewater Treatment System. This is higher than 2020 (1,642 m³) but lower than 2019 (2,339 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]	50	2,200
Total Suspended Solids [mg/L]	87	476
Chemical Oxygen Demand [mg/L]	103	2,920
Ammonia+Ammonium (N) [mg/L]	2.5	120
Total Kjeldahl Nitrogen [as N mg/L]	35.8	173
Phosphorus (total) [mg/L]	3.6	16.9
Isopropyl Alcohol [µg/L]	<5000	< 5000
Methyl alcohol [µg/L]	<5000	< 5000
Acetone [µg/L]	30	<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]	<20	<800
Toluene [µg/L]	18.3	228
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)	0.24	1.56
Arsenic (mg/L)	0.001	0.002
Barium (mg/L)	0.04	0.57
Cadmium (mg/L)	0.000	0.001
Calcium (mg/L)	83.2	146
Chromium (mg/L)	0.0014	0.0028
Cobalt (mg/L)	0.000	0.001
Copper (mg/L)	0.060	0.327
Iron (mg/L)	4.62	10
Lead (mg/L)	0.001	0.009
Magnesium (mg/L)	25.0	37.3
Manganese (mg/L)	0.118	0.490

Mercury (mg/L)	0.0000	0.0002
Nickel (mg/L)	0.004	0.010
Potassium (mg/L)	32.3	61.8
Selenium (mg/L)	0.001	0.001
Silver (mg/L)	< 0.00005	0.00019
Zinc (mg/L)	0.09	0.57

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 2021 was 569,090 m³ with an annual average daily flow of 1,490 m³/day, which is 33.9% of the recommended rated capacity of 4,400 m³/day. Total influent flows in 2021 have decreased in comparison to 2020 (640,216 m³ and 1,726 m³/day). The daily influent flow remained within the recommended rated capacity 99.2% (i.e. 362 out of 365 days) of the time during 2021.

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.

Table 14. Average Daily Raw Sewage Flows by Month for 2021

	Maximum Daily Raw	Average Daily Raw Sewage	Annual	Within Limits of
2021	Sewage Flow	Flow	Average	Rated Capacity
	(m³/d)	(m³/d)	(m^3/d)	$(4,400 \text{ m}^3/d)$
January	2,126	1,631		
February	2,468	1,179		
March	6,409	2,297		
April	3,836	1,606		
May	1,664	1,210		
June	1,246	920	1,490	Yes
July	2,436	1,330	1,490	168
August	1,523	1,117		
September	2,202	1,041		
October	2,718	1,349		
November	4,911	2,060		
December	6,205	2,097		

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 decreased since 2015 (i.e. 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, 2021

Parameters	Average	Minimum	Maximum
Total Kieldahl Nitrogen (N mg/L)	0.78	0.50	1.50

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.

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;

- Automatic lubricators for the MBBR mechanical screen
- Parts for UV Disinfection System
- DO sensor caps for MBBR
- Replacement portable gas detectors

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 MAXIMO.

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 MAXIMO.

On June 8, 2021, 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 4, 2021, 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 2021 and no sludge is expected to be removed in 2022.

8. Septage Receiving Works

In 2021, approximately 2,110 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.

Table 16. Total Volume of Septage Received in 2021

Month	Total Volume of Septage Received (m ³)
January	194.79
February	193.29
March	253.93
April	119.42
May	119.28
June	122.12
July	191.72
August	214.81
September	163.73
October	176.34
November	141.73
December	218.82

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 2021, one (1) community complaint for the Wiarton Wastewater Treatment System was received regarding a sewer lateral service blockage. A detailed summary of the community complaint 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 were zero (0) overflows and zero (0) spills in 2021 at the Wiarton Wastewater Treatment System. During the reporting period, two (2) bypasses of final effluent (total volume of 995.63 m³) being discharged without receiving all of the required treatment were 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 18 for a summary and Appendix D for detailed bypass reports.

ECA 6045-ARDJS7 requires that Quarterly bypass/overflow reports are to be submitted to the Water Supervisor. All 2021 quarterly reports were submitted to the Water Supervisor by the deadlines specified in the ECA and have been included in Appendix D.

Table 17. Bypass Events

	Ti	me	Duration	Volume	Treatment	Samples		Impact of Event	Mitigation
Date	Start	End	нн:мм	(m³)	Process Bypassed	Collected	Reason for Bypass		
2021/06/26	16:15	16:45	30:00	12.63	UV disinfection	Yes	Power failure causing UV system failure	Filter treated effluent released to effluent outfall	n/a
2021/08/05	08:00	08:00	24:00	983	Filter and UV disinfection	Yes	Influent valve open too wide	Partially treated lagoon effluent	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

Page 1 of 2



Performance Assessment Report

From 1/1/2021 to 12/31/2021

5620 WIARTON WASTEWATER TREATMENT LAGOON 110000819 1 / 2021 2/ 2021 3/2021 4/ 2021 5/2021 6/ 2021 7/ 2021 8/ 2021 9/ 2021 10/ 2021 11/2021 12/ 2021 <--Total--> <--Max--> <-Criteria-> <--Avg--> **Flows** Raw Flow: Total - Raw Sewage m3/d 55.469.95 34.176.37 73.486.86 49.775.07 37.521.71 27.577.66 46.567.42 39.100.81 31,236,46 43.153.38 61.817.33 69.207.37 569.090.39 0.00 Raw Flow: Avg - Raw Sewage m³/d 2,296.46 1,605.65 1,210.38 1.330.50 1,117.17 1,348.54 2,060.58 1.486.41 1,631.47 1,178.50 919.26 1,041.22 2.097.19 1,664.20 1,523.25 0.00 Raw Flow: Max - Raw Sewage m3/d 2,126.24 2,467.78 6,409.42 3,835.92 1,246.13 2,436.07 2,202.28 2,717.86 4,910.83 6,204.86 6.409.42 Eff. Flow: Total - Effluent m3/d 26,279.00 50,246.00 49,425.00 29,029.00 12.641.00 27,872.00 31,821.00 24,277.00 53,496.00 62.074.00 448.909.00 0.00 45,612.00 36,137.00 Eff. Flow: Avg - Effluent m3/d 1,471.35 938.54 1,620.84 1,647.50 936.42 421.37 899.10 1,026.48 809.23 1,165.71 1,783.20 2,002.39 1,226.84 Eff. Flow: Max - Effluent m3/d 2,080.00 1,100.00 4,478.00 3,720.00 1,342.00 645.00 1,885.00 2,894.00 1,839.00 2,132.00 3,066.00 2,968.00 4,478.00 0.00 Carbonaceous Biochemical Oxygen Demand: CBOD Eff: Avg cBOD5 - Effluent mg/L 2.00 2.50 3.00 4.00 2.00 2.00 2.00 2.00 < 2.00 2.00 2.00 2.00 2.29 < 4.00 20.00 4.00 4.00 2.00 2.00 3.00 2.00 3.00 3.00 2.00 2.00 Eff: # of samples of cBOD5 - Effluent 2.00 2.00 31.00 0.00 Loading: cBOD5 - Effluent kg/d 2.943 2.346 4.863 6.590 1.873 0.843 1.798 2.053 1.618 2.331 3.566 4.005 2.90 < 6.59 0.000 **Biochemical Oxygen Demand: BOD5** 91.00 Raw: Avg BOD5 - Raw Sewage mg/L 77.00 166.50 98.33 142.50 140.00 59.50 135.50 148.00 88.00 35.00 158.00 111.61 0.00 2.00 Raw: # of samples of BOD5 - Raw Sewage 2.00 2.00 3.00 2.00 2.00 2.00 2.00 3.00 2.00 2.00 2.00 26.00 0.00 **Total Suspended Solids: TSS** Raw: Avg TSS - Raw Sewage mg/L 105.00 176.50 92.00 312.50 193.50 102.50 106.00 113.00 135.33 140.00 81.50 130.50 140.69 312.50 0.00 2.00 2.00 2.00 2.00 3.00 Raw: # of samples of TSS - Raw Sewage 2.00 3.00 2.00 2.00 2.00 2.00 2.00 26.00 0.00 Eff: Avg TSS - Effluent mg/L 2.00 9.00 5.25 6.50 3.00 3.67 5.00 3.67 3.00 3.00 3.50 5.50 4.42 < 9.00 24.00 Eff: # of samples of TSS - Effluent 4.00 2.00 2.00 3.00 2.00 3.00 3.00 2.00 2.00 2.00 31.00 0.00 2.00 4.00 1.545 5.53 < Loading: TSS - Effluent kg/d 2.943 8.447 8.509 10.709 II 2.809 4.495 3.764 2.428 3.497 6.241 11.013 11.01 0.000 Percent Removal: TSS - Raw Sewage % 98.10 94.90 94.29 97.92 98.45 96.42 95.28 96.76 97.78 97.86 95.71 95.79 98.45 0.00 Total Phosphorus: TP 3.39 3.82 2.12 3.82 Raw: Avg TP - Raw Sewage mg/L 2.09 3.45 2.12 1.55 1.75 2.62 2.02 1.09 2.55 2.38 0.00 Raw: # of samples of TP - Raw Sewage 2.00 2.00 3.00 2.00 2.00 2.00 2.00 2.00 3.00 2.00 2.00 2.00 26.00 0.00 Eff: Avg TP - Effluent mg/L 0.03 0.05 < 0.03 0.04 0.05 0.14 0.04 < 0.04 0.04 0.03 0.03 0.03 0.05 < 0.14 0.50 Eff: # of samples of TP - Effluent 2.00 4.00 4.00 2.00 2.00 3.00 2.00 3.00 3.00 2.00 2.00 2.00 31.00 0.00 0.045 Loading: TP - Effluent kg/d 0.044 0.049 0.066 0.047 0.059 0.036 < 0.038 0.030 0.035 0.053 0.060 0.05 < 0.07 0.000 Percent Removal: TP - Raw Sewage % 98.56 98.62 98.59 98.82 98.69 90.97 97.71 98.60 98.27 98.51 97.24 98.82 98.82 0.00

Nitrogen Series



Page 2 of 2

Performance Assessment Report



From 1/1/2021 to 12/31/2021

Raw: Avg TKN - Raw Sewage mg/L	20.75	26.25	17.37	25.00	24.70	12.90	15.80	25.15	17.50	11.30	8.70	16.85		18.52	26.25	0.00
Raw: # of samples of TKN - Raw Sewage	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	2.00	2.00	2.00	26.00			0.00
Eff: Avg TAN - Effluent mg/L	0.30	0.10	< 0.10 <	0.10	0.25 <	0.33	0.10	0.23	0.10	0.20 <	0.15 <	0.10		0.17	< 0.33	8.00
Eff: # of samples of TAN - Effluent	2.00	4.00	4.00	2.00	2.00	3.00	2.00	3.00	3.00	2.00	2.00	2.00	31.00			0.00
Loading: TAN - Effluent kg/d	0.441	0.094	< 0.162 <	0.165	0.234 <	0.140	0.090	0.240 <	0.081	0.233 <	0.267	0.200		0.20	< 0.44	0.000
Eff: Avg NO3-N - Effluent mg/L	5.61	5.91	5.36	0.85	0.54	0.39	0.49	0.35	0.90	1.39	3.41	4.67		2.49	5.91	0.00
Eff: # of samples of NO3-N - Effluent	2.00	4.00	4.00	2.00	2.00	3.00	2.00	3.00	3.00	2.00	2.00	2.00	31.00			0.00
Eff: Avg NO2-N - Effluent mg/L	0.10	0.05	0.04	0.03	0.13	0.04	0.03	0.04	0.03	0.03 <	0.06	0.04		0.05	< 0.13	0.00
Eff: # of samples of NO2-N - Effluent	2.00	4.00	4.00	2.00	2.00	3.00	2.00	3.00	3.00	2.00	2.00	2.00	31.00			0.00
Disinfection																
Eff: GMD E. Coli - Effluent cfu/100mL	2.00	2.00	2.00	2.00	1.41	2.00	2.00	2.00	2.00	2.00	2.00	2.00		1.95		



Appendix BCalibration Reports



151 Superior Blvd, Unit #13 Mississauga, ON, L5T 2L1. www.lndus-Control.com

VERIFICATION REPORT - KHRONE ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA- Grey Brue	ce Hub	Site/Plant Address:		Taylor Street, Wiarton,ON			
Plant Name:	Wiarton -PS1		_					
	ce Information							
Make:	Khrone		Date:		June 8, 2021			
Model:	IFC10D		Report No:		CO1241-2106-20			
Order Code:	NA		Job No:		CO1241-2106			
Serial No.:	A9911651		_					
Tag:	NA		_	<u>F</u> I	low Details			
Job Location:	PS#1		Unit:		LPS			
Asset ID:	165372		Flow Range:		0-200			
			Current Outp	out:	4-20 mA			
<u>Se</u>	nsor Details		4 mA Set Po	oint	0			
Line size:	8 Inch		20 mA Set F	Point	200			
GKL:	4.505		_					
Mounting:	Remote		Inst. Reading	<u>a</u>	AS FOUND	AS LEFT		
			TOTALIZER	(m3)	6800937	6800941		
			FLOW (L/S)		-0.4	-0.25		
Mainte	nance Checklist			Re	emarks			
Visual Inspection:	☑ OK	□ NOT OK						
Electrical Inspection:	☑ OK	□ NOT OK						
Sensor Installation:	☑ ok	\square NOT OK						
Transmitter Installation:	☑ ok	\square NOT OK						
	1		l					
		Instrument Test Info	ormation and Resu	ılts				
Set-Point as Per Calibration KIT	Calculated Flow (L/S)	Calculated O/P (mA)	UUT Display (L/S)	UUT Measured Output (mA)	Deviation (L/S)			
0	0.00	4.00	0.00	3.99	0.0	0		
A	10.78	4.86	11.52	4.86	-0.7	74		
В	21.57	5.73	21.65	5.71	-0.0)8		
С	43.14	7.45	42.99	7.43	0.1	5		
D	107.84	12.63	106.89	12.69	0.9			
			L	I.	l .			
		tion of Tools used for			T	<i>(</i>), 0		
Details		ol/Kit 1	Tool/k		Tool/ł			
Device Description:	Calibrator		Electrical Multime	ter	N//			
Manufacturer:	Khrone		Fluke		N//			
Model No:	GS8B	hander Treels Orace	179		N//	A		
	* Refer Call	bration Tools Certification	ates submittal for n	nore information				
Verification Test Result:	✓ Pa	ssed		Fail	☐ Not Ve	rified		
Overall Remarks:	Measurement Works within Specification.							
Service Technician :	Pavan Patel		Stamp/Signature		8	/		
Printed Date:	June 8, 2021							
		End	of Report		Version: 1	9-12		



151 Superior Blvd, Unit #13 Mississauga, ON, L5T 2L1.

VERIFICATION REPORT - KHRONE ELECTRO-MAGNETIC FLOW MEASUREMENT

Customer Name:	OCWA- Grey Bru	ce Hub	- Site/Plant	A ddrooo:	Taylor Street, Wiar	ton,ON	
Plant Name:	Wiarton -PS2		Sile/Plant	Address.			
			_				
<u>Devi</u>	ce Information			Serv	ice Information		
Make:	Khrone		Date:		June 8, 2021		
Model:	IFC10D		Report No		CO1241-2106-21		
Order Code:	NA		Job No:		CO1241-2106		
Serial No.:	A9817181		_				
Tag:	NA		_	F	low Details		
Job Location:	PS#2		- Unit:	<u> </u>	L/SEC		
Asset ID:	165385		_	10:	0-250		
ASSELID:	100300		Flow Rang				
Sa	noor Dotoilo		Current Ou 4 mA Set	•	4-20 mA		
	nsor Details				0		
Line size:	10 Inch		20 mA Se	t Point	250		
GKL:	4.544		-				
Mounting:	Remote		Inst. Read	-	AS FOUND	<u>AS LEFT</u>	
			TOTALIZE	•	1612845	1612871	
			FLOW (L/S	S)	-0.43	110.61	
			T				
	nance Checklist			Re	emarks		
Visual Inspection:	☑ OK	□ NOT OK					
Electrical Inspection:	☑ OK	\square NOT OK					
Sensor Installation:	☑ ok	\square NOT OK					
Transmitter Installation:	☑ ok	\square NOT OK					
	.	Instrument Test Inf	ormation and Re	sults			
0.45.4.5.0.11.4	0 1 1 1 15	0 1 1 1 10/0	LIUT D'antau	UUT	D	. (
Set-Point as Per Calibration	Calculated Flow	Calculated O/P	UUT Display	Measured	Devia		
KIT	(L/S)	(mA)	(L/S)	Output (mA)	(L/S	5)	
0	0.00	4.00	0.00	4.00	0.0	00	
A	17.00	5.09	16.92	5.09	0.0		
В	33.99	6.18	33.95	6.17	0.0		
C	67.99	8.35	67.56	8.31	0.4		
C	169.97	14.88	169.06	14.65	0.9		
В	169.97	14.00	109.00	14.05	0.8	71	
	Informa	tion of Tools used fo	r Verification of th	ne Instruments			
Details	Too	ol/Kit 1	Too	l/Kit 2	Tool/I	Kit 3	
Device Description:	Calibrator		Electrical Multin	neter	N/A	A	
Manufacturer:	Khrone		Fluke		N/A	A	
Model No:	GS8B		179		N/A	A	
	* Refer Cali	ibration Tools Certific	ates submittal fo	r more Information			
Verification Test Result:	☑ Pa	assed		Fail	☐ Not Ve	erified	
	Measurement Wo	rks within Specification	nn .				
	Wicadaromonic Wo	ino within opcomodu	J11.				
Overall Remarks:							
						1	
Service Technician :	Pavan Patel		Stan	np/Signature			
					0		
Printed Date:	June 8, 2021						
i mitou Date.	Julio 0, 2021	End	of Papart		Manain : d	10.12	
	End of Report Version: 19-12						



Verification report flowmeter

Plant operator	Induscontrol
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 1854d06h44m42s	Date/time 08.06.21 10:05
Verification ID 6	
Verification results	
Overall result	Passed
Detailed results	See next page

Overall result: Result of the complete device function	onality test via Heartbeat Technology	
Notes		
Validity of the verification rep	port is only given:	
For devices with the Heartbea	at Verification enabled software option	
For verifications, carried out l	by the Endress+Hauser Service, or an authori	zed Endress+Hauser service provider
		R
08.06.21		9
Date	Inspectors signature	Operator's signature

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Verification report flowmeter

Serial number: KC1E9919000

Verification detailed results Verification ID 6

Sensor	√	Passed
Coil current shot time	\checkmark	Passed
Coil hold voltage	✓	Passed
Coil current	✓	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

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Verification report flowmeter

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

Verification information	
Operating time 1853d22h54m26s Verification ID	Date/time 08.06.21 09:52
8	
Verification results	
Overall result	Passed
Detailed results	See next page

Detailed results	See next page					
Overall result: Result of the complete device functionality test via Heartbeat Technology						
Notes						
Validity of the verification rep	port is only given:					
For devices with the Heartbea	t Verification enabled software option					
For verifications, carried out b	by the Endress+Hauser Service, or an a	uthorized Endress+Hauser service provider				
08.06.21						
Date	Inspectors signature	Operator's signature				

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Verification report flowmeter

Serial number: KC1E9819000

Verification detailed results Verification ID 8

Sensor	✓	Passed
Coil current shot time	\checkmark	Passed
Coil hold voltage	\checkmark	Passed
Coil current	✓	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

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Verification report flowmeter

Plant operator	Induscontrol
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 1854d16h07m43s	Date/time 08.06.21 10:17
Verification ID 6	
Verification results	
Overall result	Passed
Detailed results	See next page

Detailed results	See nex	ki page
Overall result: Result of the complete device fun	actionality test via Heartbeat Technology	
Notes		
	eat Verification enabled software option	authorized Endress+Hauser service provider
Date	Inspectors signature	Operator's signature

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Verification report flowmeter

Serial number: KC1EF119000

Verification detailed results Verification ID 6

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

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INDUS
CONTROL

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VERIFICATION REPORT- PARSHALL FLUME OPEN CHANNEL FLOW MEASUREMENT

25111156	www.Indus-Control.com		Oi i	LIN OFFAININEET E	OW MEASONEMENT
Customer Name:	OCWA-Grey Bruce Hub				524 Taylor St,
Plant Name:	STP			Site/Plant Address:	Wiarton, ON
	OTT				Widitori, GiV
	Device Information			Se	ervice Information
Make:	Milltronics			Date:	June 8, 2021
Model:	Multiranger Plus			Report No:	CO1241-2106-25
Order Code:	N/A			Job No:	CO1241-2106
Serial No.:	050W023466			JOD NO.	001241 2100
Tag:	NA				Flow Details
Job Location:	Final Effluent Discharge			Unit:	m3/h
JOD LOCATION.	Tillal Ellident Discharge			Flow Range:	0-591.9 m3/h
Inst Deading	AS FOUND	AS LEFT		Current Output:	4-20 mA
Inst. Reading	1712	1713		4 mA Set Point	0 m3/h
TOTALIZER (m3) FLOW (m3/h)	24.65	24.65		20 mA Set Point	591.9 m3/h
FLOW (III3/II)	24.00	24.05		20 IIIA Set Point	391.91113/11
	Maintenance Checklist			Ren	narks
Visual Inspection:	✓ OK	□ NOT OK			
Electrical Inspection:	☑ OK	□ NOT OK			
		Programming Parar			
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
	lı	nstrument Test Info	rmation and R	Results	
Input (%)	Calculated Flow(m3/h)	Calculated Input (mA)	Flow on Panel Meter Display (m3/h)	UUT Measured Output (mA)	Deviation (m3/h)
0	0.00	4.00	0.00	4.00	0.00
25	147.98	8.00	147.59	7.99	-0.39
50	295.95	12.00	294.00	12.00	-1.95
75	443.93	16.00	441.00	15.96	-2.93
100	591.90	20.00	589.71	19.99	-2.19
	Information	of Tools used for '	Verification of	the Instruments	-
Device Description:	Manufacture		verification of	Model	Serial No:
Electrical Multimeter	Fluke	OI .		179	As per Provided
Electrical Multimeter	Tidico			170	As per Frovided
Verification Test Result:	✓ Passed			Fail	☐ Not Verified
Overall Remarks:	Program parameters verified	. Measurement wor	ks as per spe	cification.	
Service Technician :	Pavan Patel			Stamp/Signature	Q/
Printed Date:	June 8, 2021				9
	•		End of Repo	rt	Version: 19-12



Hach ServicePlus™

FIELD SERVICE REPORT / RAPPORT DE SERVICE DE TERRAIN

Account Number / No. de Compte: 40302465

Customer / Client: ONTARIO CLEAN WATER AGENCY

Contact Name / Nom du Contact: LEO-PAUL FRIGAULT

Fax:

Phone / Téléphone: 519-534-1610
Location: ONTARIO CLEAN WATER AGENCY , 897 BAYVIEW ST, WIARTON,

Email Address / Adresse: |frigault@ocwa.com N, Technician / Technicien: Stephen Bilton

Ontario, N0H 2T0, CA

Purchase Order / Bon de Commande: 5844/5620

Date of Service / Date de service: 5/4/2021

Work Order Number / Numéro de Commande: WO-01131547 - Visit -

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag	
LPV417.99.00002	1720E LR TURBIDITY SENSOR, HACH	040200000706	154151 Raw Water Turbidity	
Notes				

as found reading: 0.184 ntu, gain 0.53, cleaned, inspected, replaced lamp and cable, confirmed lamp voltage, zeroed electronics, calibrated with Hach formazin standard at 20 ntu (Lot A1071 exp mar23), new gain 0.62, verified with Hach formazin standard at 1 ntu (Lot A1025 exp jan23), reads 1.037, as left reading: 0.336 ntu, unit is performing to specifications

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag	
LPV417.99.00002	1720E LR TURBIDITY SENSOR, HACH	040200000688	Filter 1 Turbidity	
Notes				

as found reading: 0.018 ntu, gain 0.62, cleaned, inspected, replaced lamp and cable, confirmed lamp voltage, zeroed electronics, calibrated with Hach formazin standard at 20 ntu (Lot A1025 exp jan23), reads 0.986, as left reading: 0.034 ntu, unit is performing to specifications

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag	
LPV417.99.00002	1720E LR TURBIDITY SENSOR, HACH	040100000409	Filter 2 Turbidity	
Nation .				

as found reading: 0.018 ntu, gain 0.55, cleaned, inspected, replaced lamp and cable, confirmed lamp voltage, zeroed electronics, calibrated with Hach formazin standard at 20 ntu (Lot A1071 exp mar23), new gain 0.55, verified with Hach formazin standard at 1 ntu (Lot A1025 exp jan23), reads 0.979, as left reading: 0.034 ntu, unit is performing to specifications

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag	
4700000	oo 2100N LAB TURB, EPA 1821	05070C020466	211066	
Notes				

as found: condition good, cleaned, inspected internally, replaced lamp and calibrated with Hach formazin standards (Lot A0297 exp dec21), as left standards read: <0.1: 0.045, 20: 20.1, 200: 201, 1000: 1015, 4000: 3995, empty cell: 0.014, unit is performing within specifications

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag	
4650000	00 2100P PORTABLE TURBIDIMETER	021100028695	211065	
Notes				

As found, the condition of the turbidimeter was good The turbidimeter was inspected, the exterior and the optics chamber were cleaned, the batteries were replaced, and the turbidimeter was calibrated using StablCal standards (lot A0057 exp May21). The turbidimeter was verified with DI water (0.16), 20 NTU (20.1) and 800 NTU (804) Stablcal standards. After PM service was completed, the as left empty cell reading of the turbidimeter was 0.01. The turbidimeter has been restored to normal operation, and performance and condition were within specifications

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag		
5440000	oo CL17 FINAL ASSEMBLY W/KITS	030800007905	Finished Water Clearwell Free		
	Notes				

As found, the condition of the CL17 was good, the firmware version was 1.4, and the instrument reading was 1.33 mg/L. A new maintenance kit was installed, and the colorimeter was cleaned and inspected. Tubing, fittings, and the stir magnet were replaced. Instrument accuracy was verified utilizing a certified DR900 The results of a verification grab sample were within 5% of the instrument reading. After PM service was completed, the firmware version was 1.4 and the as left reading of the analyzer was 1.33 mg/L. The analyzer has been restored to normal operation, and its performance and condition were within specifications.

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag
5440000	oo CL17 FINAL ASSEMBLY W/KITS	031000008358	Raw Water Total chlorine
	Notes		

As found, the condition of the CL17 was good, the firmware version was 1.4, and the instrument reading was 0.54 mg/L. A new maintenance kit was installed, and the colorimeter was cleaned and inspected. Tubing, fittings, and the stir magnet were replaced. Instrument accuracy was verified utilizing a certified DR900 The results of a verification grab sample were within 5% of the instrument reading. After PM service was completed, the firmware version was 1.4 and the as left reading of the analyzer was 0.54 mg/L. The analyzer has been restored to normal operation, and its performance and condition were within specifications.

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag	
DPD1P1	Digital pH Sensor, PEEK, Convertible	000907430223	Raw Water ph	
Notes				

As found, the condition of the probe was good, and the sample reading was 7.18. The probe was cleaned, inspected, the salt bridge was replaced, and the probe was refilled with standard cell solution. Following PM service, the probe was calibrated using certified pH buffer standards. The calibration slope after PM was -54.0 mV/pH. The measurement performance of the probe following service and calibration was verified using certified pH standards. Their values were: 4.01 - 4.01, 7 - 7.00, 10 - 10.01. After PM service, calibration, and verification were completed the as left reading of the probe was 7.40. The probe has been restored to normal operation, and its performance and condition were within specifications.

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag		
5940060	oo DR/2400 PORTABLE, NO POWER	020800000418			
	Notes				

as found the condition of the meter was good, I cleaned optic cup area, tested operation and verified wavelength accuracy using DR Check secondary standards Lot A1067 Mar23. Verification results were as follows: 420nm: Std1 0.639 (0.627 ±0.050), Std2 1.236 (1.219 ±0.100), Std3 1.809(1.795 ±0.150); 520nm: Std1 0.657 (0.651 ±0.050), Std2 1.288 (1.260 ±0.100), Std3 1.897 (1.870 ±0.150); 560nm: Std1 0.657 (0.646 ±0.050), Std2 1.268 (1.259 ±0.100), Std3 1.868 (1.852 ±0.150); 610nm: Std1 0.615 (0.607 ±0.050), Std2 1.187 (1.177 ±0.100), Std3 1.740 (1.730 ±0.150). Unit is performing within specifications

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag		
DR2700-01	oo db DR2700 SPECTROPHOTOMETER	1297470			
	Notes				

as found: reads standards within tolerances, cleaned, inspected, replaced VIS lamp, performed service inspection procedure and calibrations, verified calibration with Hach test filter set# 4366 exp 28feb2022, unit is performing to factory specifications. Certification results were as follows: 11/2: 0.311 +/- 3%(read 0.311), 5/2: 0.621 +/- 3% (read 0.622), 9/1: 1.468 +/- 3% (read 1.471), 450/3 > 2.8 (read 3.041), 20/2 807.0 +/- 2nm (read 807.3), passed on all tests

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
Notes			

W&T Depolox chlorine analyzer: as found reading: 1.15 mg/l, verified calibration within 5% with Hach DR900 standard

Product / Produit	Product / Produit Description	Serial Number / No. de Série	Asset Tag		
5870000	rr oo POCKET CLRMTR II CHLORINE SYSTEM	17030E324555			
	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, 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 PCII) Lot A9288 oct21. Verification of secondary standards results as follows: Std1: 0.23 (0.24 +/- 0.09) Std2: 0.91 (0.93 +/-0.10), Std3: 1.64 (1.71 +/- 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			
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, 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 A9288 oct21. Verification of secondary standards results as follows: Std1: 0.19 (0.22 +/- 0.09) Std2: 0.84 (0.86 +/-0.10), Std3: 1.53 (1.58 +/- 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				
4677000	00 POCKET COLOR. CHLORINE REPL.INST	OCWA-XXXX839					
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, 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 A9288 oct21. Verification of secondary standards results as follows: Std1: 0.21 (0.22 +/- 0.09) Std2: 0.88 (0.86 +/-0.10), Std3: 1.58 (1.58 +/- 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					
5870000	rr oo POCKET CLRMTR II CHLORINE SYSTEM	031000003585						
	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, 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 PCII) Lot A9288 oct21. Verification of secondary standards results as follows: Std1: 0.24 (0.24 +/- 0.09) Std2: 0.92 (0.93 +/-0.10), Std3: 1.65 (1.71 +/- 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			
LXV445.99.10112	db ee TU5300sc TURB,EPA	2012678	Wiarton WTP Finished Water			
Notes						

As found, the condition of the analyzer was good, the firmware version was 1.39(current) and sample reading was 0.012 NTU. The sample cell, cell compartment, and the analytical unit were inspected and cleaned. A calibration using 20 NTU StablCal (Vaa961 Lot a0024 exp Jul21) was performed. The new gain value is 1.049 and is within specifications. After service was completed, the TU5300 sample reading was. 0.014 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								



Appendix CCommunity Complaints

Ontario Clean Water Agency Community Complaints

Facility ID:	5620	
Facility Name:	Wiarton Wastewater T	Freatment Lagoon
Address:	441048 Elm St	
City:	Wiarton	
Province:	Ontario	
Postal Code:	NOH 2T0	
Name of Person who filed Complaint:	Homeowner	
Address:	430 Brown St	
Phone		
	e complaints, provide the nam per and details in the "Descrip	ne of the person who filed the initial potion" field below
Date of Complaint:	01/02/2021	
Time of Complaint:	12:00:00 PM	
☐ Visual ☐ Odour Other: Description:	☑ Service Problem☐ Sludge Related	☐ Basement Flooding
Called for a blocked sewe	r lateral. There is a fairly larg	e dip in the lateral around the curb area.
Action taken in response:		
The operator was able to othis spring. The repair too		soft blockage and it was scheduled to be repaired
•	lem identified?: ● Yes ○ No facility/activity?: ○ Yes ● 1	

If any remedial action is required, complete action plan form

Updated By: Karla Young 03/16/2022 02:35:48 PM

Investigating Operator: Benjamin Madill

Comments:



Appendix DEffluent By-Pass Reports

From: Karla Young

To: "Graham, Robert G. (MECP)"; Smith, Mark (MECP)

Cc: Leo-Paul Frigault; Michelle Neal; Karen Lorente; Melissa Cortes

Subject: 2021 Q1 - Bypass/Overflow Event Summary - Wiarton WWTP (110000819) - Town of South Bruce Peninsula

Date: May-12-21 1:41:00 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.

Data	Time		Duration Volume		Volume Treatment		Reason for	Impact of Event	Mitigation
Date	Start	End	нн:мм	(M ³)	Process Bypassed	Collected	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.

Date	Tir	ne	Duration	Volume	Receiver	Disinfection Status of		Reason for	Impact of Event	Mitigation: Taken and
Date	Start	End	нн:мм	(M ³)	Receiver	Overflow	Conected	Overflow	or 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
kyoung@ocwa.com
(519) 374 - 5782

From: Karla Young

To: "Graham, Robert G. (MECP)"; "Smith, Mark (MECP)"

Cc: Leo-Paul Frigault; Michelle Neal; Karen Lorente; Melissa Cortes; Mike Mortimer

Subject: 2021 Q2 - Bypass/Overflow Event Summary - Wiarton WWTP (110000819) - Town of South Bruce Peninsula

Date:August-09-21 2:57:00 PMAttachments:Report CA15871-JUN21.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. Attached are the laboratory results from the bypass event.

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	Rescon for	_	Mitigation
Date	Start	End	нн:мм	(M ³)	Process Bypassed	Collected	Bypass	Event	
2021/06/26	16:15	16:45	30:00	12.63	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.

Date	Tiı	ne	Duration	Volume		Disinfection Status of		Reason for	Impact of Event	Mitigation: Taken and
Date	Start	End	нн:мм	(M ³)	Receiver	Overflow	Conected	Overflow	or 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
kyoung@ocwa.com
(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:	06/26/2021	
Time of Occurrence:	04:15:00 PM	
Nature of the Incident		
• Level 1 Contingence	y O Level 2 Contingency O Level 3 Contingency Click here To Show	the Definitions
Incident affected: A	ir 🖂 Water 🗌 Land 🔲 Nothing	
☐ Chlorine ☐ Sodium Hypochlori ☐ Calcium Chloride ☐ Aluminum Compou ☐ Arsenic ☐ Fluoride If this was a discharge, sp	Odours ands (Specify in Other) Water Iron Coagulants Other: bypass of UV disinfection	
	ely what quantity was released?: Litres	
If a gas, approximately	what quantity was released?:	
If a solid, approximate	ly what quantity was released?: Kg	
What was the source of	f release?:	
Power bump cau	sed UV failure. Filtered lagoon effluent was released without UV treatment	nt.
Where did the release	go?:	
Through the regu	ılar outfall to Colpoy's Bay.	
If it entered a watercou	urse: ● Yes ○ No	

If it went off site: ● Yes ○ No
Duration of the release?:30 minutes
Is the release now stopped?: ● Yes ○ No
Was there any damage? (i.e. property and/or environmental): ○ Yes ● No ○ N/A
If "Yes", describe below and fill out "Insurance Claim" report
Action(s) Taken
What actions were taken to control the incident?
Reset the UV system and shut off effluent flow.
What actions have been taken to remediate the incident?
Was this a reportable spill or discharge?: ● Yes ○ No
If "Yes", at what time was it first reported to the MOE?
17:30 - was reported to Stephanie McGill at Spills Action Centre on June 26, 2021 and was issued reference #1-N6YES.
Was it reported to the MOE district office?: ● Yes ○ No
If "Yes", which office/location and who was the contact?: 12:30PM - was reported to Bob Graham on June 28, 2021.
Was it reported to MOE SAC?: ● Yes ○ No
If "Yes", at what time was it reported to MOE SAC?:
17:30PM - was reported to Stephanie McGill at Spills Action Centre on June 26, 2021 and was issued reference #1-N6YES.
Was it reported to Municipality?: ● Yes ○ No
If "Yes", at what time was it reported to Municipality?:
17:50PM - left voicemail with Town of South Bruce Peninsula.

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ■ No	
If "Yes", was it received?: O Yes O No	
Was external emergency assistance requested?: ○ Yes ● No	
If "Yes", from who?: Fire Department Ambulance or Hospital Police Municipality	☐ Canutec ☐ Coast Guard
Other:	
Was there any media involvment?: ○ Yes ● No	
If "Yes", who?:	
Was the public affected?: ○ Yes ● No	
If "Yes", how?:	
Updated By: Karla Young 07/06/2021 07:15:44 AM	

Comments:

Bypass Incident #1-N6YES

June 26, 2021

-UV system failure due to power bump-30 minute bypass of 12.625 cubic meters of filtered lagoon effluent

- -reset UV sytem and shut down flow
- -took samples

June 26, 2021 notifications:

17:15 OCWA Manager of Operations Leo-Paul Frigault informed

17:30 Operator notified SAC-talked to Stephanie McGill and issued reference number #1-N6YES

17:50 voicemail left with Town of South Bruce Peninsula

17:53 OCWA PCT Karla Young informed

17:55 Gillian Jordan at Grey Bruce Health Unit

June 28, 2021 12:30 OCWA PCT emailed Bob Graham MECP Water Inspector to inform him of bypass

July 5, 2021 14:22 Received final lab analysis on samples collected - results below the limits set out in the ECA #6045-ARDJS7

Clean Water Agency - Request for Laboratory Services and CHAIN OF CUSTODY - SEWAGE (BYPASS)		
san Water Agency - Request for Laboratory Services and CHAIN OF CUSTODY - SEWAGE (BYPASS)		
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	Wat	Waterworks/Project # 110000819	3819					C of C LIMS No:	MS No:	0	2	500	10							
	Faci	Facility Name Wiarton WWTP	VTP					Laboratory Section	y Section		IIIN 2 0	2004	1		San	iple con	Sample condition upon receipt	eceipt		
	Org. #	.# 5620						Date	Date Rec'd:		6 7	1707	3		Time Rec'd:	#		Initials		
	Ouote #	J Parameter List	No	Yes					Tem	Temperature Upon Receipt	Upou	Receipt		0	3	ပ္				
	Ident	identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment	ie sample(s) fall: No Requirem	ant to Rep	ort Sam	ole Resu	ilts Under	r Any Regu	ulation for	Wastew	ater Tr	eatmen	0	2						
	T.	Requested Turnaround Time:			App. Req'd		24-48 h	×				5-7d		П	7-10d	D .	Other	Specify:		
Address:	Repo	Report to: Megan Edney 18 Caroline Street	Data Transfer Contact: Megan Edney	ontact: M	egan Ed	yey	= -	Invoice To: Ontario Clean Water Agency 136 Main St. E	Ontario (Clean W	ater Ag	ency				Labor 185 C	Laboratory: SGS L 185 Concession St	Laboratory: SGS Lakefield Research Ltd 185 Concession St.	arch Ltd	
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Telephone: Fax:	(519)	519-374-5782 (519) 797-3080	519-374-5782 (519) 797-3080					(519) 925-1938 (519) 925-0322	1938							705-6	705-652-2000			
Email:	med	mednevz(@ocwa.com	medneyz(a)ocwa	a.com			201	apwestnigniands(@ocwa.com	llands(@o	cwa.con				ľ		carne	carrie.greeniaw(d/sgs.com	SGS.COIII		
		Sample			CI Res	CI Residual (mg/L)	g/L)				Para	Paramaters					Cor	Comments	-	A
Station Acronym Number (Short	on Siri	Sample Location Name	Date & Time Collected UN 2 & 2021	# of Bottles	9917	IstoT	Combined (mg/L)		bebneqeu& lstoT sbilo& lstoT	Phosphorous (CBOD ²	ТКИ	einommA letoT negostiN	Mitrite	Mitrite + Mitrate		10.16		BOM of bsolqU	Upload to OCW
E# E#	- A	Effluent (Grab)	(6.30	-						×)	3	7					pH = 7,88	0=21.2	Yes X	Yes
Eff Eff		Effluent (Composite)	16.30	2					×	×	×	×	×	×	×				Ves No	Yes No
																			Yes	Še Še □□
										-									Yes	Yes
																			Yos No	Yes
					T														No	Yes
																			Yes	Yes
																			Yes	Yes
Sampler Name:		Be. Mal'4	4,4	ω_	Sampler Signature:	ignature														

• Station Actorym: Cell Cantents, Dis - Disinfection, Down - Downstream, Eth - Final Ethuent, Pfby - Primary Bipass, Raw - Raw Sewago, ScBy - Secondary Bypass, Haw - Raw Sewago, ScBy - Secondary Bypass, Haw - Raw Sewago, ScBy - Secondary Bypass, Haw - Raw Sewago, ScBy - Secondary Biparticum, Well - Monthering Well - Activated States, Base - Biosolids see super, Bish - Biosolids see super, Bish - Biparticum, Bas - Biosolids see super, Bish - Bibarticum, Base - Biosolids see super, Bish - Bibarticum, Bish - Biparticum, Base - Bibarticum, Bas Revised: 2018-09-21

Revision #6

RTM PUL GOAGS9281



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

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

05-July-2021

Date Rec.: 29 June 2021 **LR Report: CA15871-JUN21**

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	10: Eff Eff-Effluent Comp
Sample Date & Time							26-Jun-21 16:30	26-Jun-21 16:30
Temperature Upon Receipt [°C]							8.0	8.0
Field pH [no unit]					6.0-9.5		7.88	
Field Temperature [celcius]							21.2	
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	29-Jun-21	16:29	05-Jul-21	13:41	15.0	10.0		2
Total Suspended Solids [mg/L]	02-Jul-21	07:32	02-Jul-21	17:48	15.0	10.0		2
Phosphorus (total) [mg/L]	30-Jun-21	19:08	02-Jul-21	15:01	0.3	0.15		0.26
Total Kjeldahl Nitrogen [as N mg/L]	30-Jun-21	21:57	05-Jul-21	07:59				1.5
Ammonia+Ammonium (N) [as N mg/L]	30-Jun-21	18:00	02-Jul-21	13:05	3.0	3.0		0.7
Nitrite (as N) [mg/L]	30-Jun-21	21:46	02-Jul-21	16:07				0.05
Nitrate (as N) [mg/L]	30-Jun-21	21:46	02-Jul-21	16:07				0.36
Nitrate + Nitrite (as N) [mg/L]	30-Jun-21	21:46	02-Jul-21	16:07				0.41
E. Coli [cfu/100mL]	29-Jun-21	18:25	02-Jul-21	12:05	200 (May 15-Sep15)		<2 UAL	

*E.Coli was received/processed after the recommended holding time of 48 hours. UAL - Unreliable: Sample Age Exceeds Normal Limit



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #:

110000819 PO#017018

Project : LR Report :

CA15871-JUN21

Carrie Greenlaw Project Specialist,

From: Karla Young

To: "Graham, Robert G. (MECP)"; "Smith, Mark (MECP)"

Cc: <u>Leo-Paul Frigault</u>; <u>Michelle Neal</u>; <u>Mike Mortimer</u>; <u>Melissa Cortes</u>

Subject: 2021 Q3 - Bypass/Overflow Event Summary - Wiarton WWTP (110000819) - Town of South Bruce Peninsula

 Date:
 November-05-21 10:34:00 AM

 Attachments:
 Report CA13316-AUG21.pdf

 Report CA12261-AUG21.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. Attached are the laboratory results from the bypass event.

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 for	_	Mitigation
Date	Start	End	нн:мм	(M ³)	Process Bypassed	Collected	Bypass	Event	
2021/08/05	08:00	08:00	24:00	983	Filter and UV disinfection	Yes	Influent valve open too wide	Partially treated lagoon effluent	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.

Date	Tiı	ne	Duration	Volume		Disinfection Status of		Reason for	Impact of Event	Mitigation: Taken and
Date	Start	End	нн:мм	(M ³)	Receiver	Overflow	Conected	Overflow	or 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
kyoung@ocwa.com
(519) 374 - 5782

Ontario Clean Water Agency Environmental Incident Report

Facility ID:	5620	ElncidentRep ort
Facility Name:	Wiarton Wastewater Treatment Lagoon	
Address:	441048 Elm St	_
City:	Wiarton	_
Province:	Ontario	
Postal Code:	NOH 2TO	
Date of Occurrence:	08/05/2021	
Time of Occurrence:	08:00:00 AM	
Nature of the Incident		
Level 1 Contingence	cy O Level 2 Contingency O Level 3 Contingency Click here To Show	the Definitions
Incident affected: A	Air Water Land Nothing	
What was discharged of Chlorine Sodium Hypochlor Calcium Chloride Aluminum Compou Arsenic Fluoride	Oil/Diesel/Gas	
	Other:	
If this was a discharge, sp	pill or emission	
		
If a liquid, approximat	tely what quantity was released?:983000 Litres	
If a gas, approximately	y what quantity was released?:	
If a solid, approximate	ely what quantity was released?: Kg	
What was the source o	of release?:	
	ve to the filter building was open to wide and caused high flows into the filter online. This caused partially treated sewage to overflow in the bypass c	
Where did the release	go?:	
It went into the b	bypass channel which flows into the effluent channel and into Colpoy's Bay	7.

If it entered a watercourse: ● Yes ○ No
If it went off site: ● Yes ○ No
Duration of the release?: 24 hours
Is the release now stopped?: ● Yes ○ No
Was there any damage? (i.e. property and/or environmental): ○ Yes ● No ○ N/A
If "Yes", describe below and fill out "Insurance Claim" report
Action(s) Taken
What actions were taken to control the incident?
The influent valve was throttled back to the proper flow to accomodate the filter capacity.
What actions have been taken to remediate the incident?
Samples were taken according to the ECA. As the high flow alarm did not go off the mechanism was examined and found to not be in the proper position. The mechanism was put back into the proper position and the operator will discuss whether a new option for replacement is needed with the Senior Operations Manager.
Was this a reportable spill or discharge?: ● Yes ○ No
If "Yes", at what time was it first reported to the MOE?
Shannon Simpkins at SAC was notified at 11:26 AM on August 6, 2021.
Was it reported to the MOE district office?: ● Yes ○ No
If "Yes", which office/location and who was the contact?: Matt Shannon at Owen Sound District Office was notified at 11:41 AM on August 6, 2021.
Was it reported to MOE SAC?: ● Yes ○ No
If "Yes", at what time was it reported to MOE SAC?:
Shannon Simpkins at SAC was notified at 11:26 AM on August 6, 2021.
Was it reported to Municipality?: ● Yes ○ No
If "Yes", at what time was it reported to Municipality?:
Chris Cornfield at The Town of South Bruce Peninsula was notified at 11:48 on August 6, 2021.

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ● No	
If "Yes", was it received?: ○ Yes ● No	
Was external emergency assistance requested?: ○ Yes ● No	
If "Yes", from who?: Fire Department Ambulance or Hospital Police Municipality	☐ Canutec ☐ Coast Guard
Other:	
Was there any media involvment?: ○ Yes ● No	
If "Yes", who?:	
Was the public affected?: ○ Yes ● No	
If "Yes", how?:	
Updated By: Karla Young 08/18/2021 08:07:49 AM	

Comments:

Bypass Incident #1-12JBXG

August 6, 2021

- -The influent valve to the filter building was open too wide and caused an overflow into the bypass channel.
- -Approximately 983 m3 of partially treated effluent went into the bypass channel over 24 hours
- -The influent valve was throttled back to the appropriate flow for the filter capacity
- -samples were taken according to ECA #6045-ARDJS7

August 6, 2021 notifications:

11:26 PCT called SAC-talked to Shannon Simpkins-was to call back with reference number

11:38 PCT called GBHU and left voicemail

11:41 PCT called Matt Shannon at MECP to inform of situation

11:48 PCT called Chris Cornfield at Town of South Bruce Peninsula to inform of situation

12:29 PCT received call from Megan Bruce at GBHU and informed of situation

12:41 PCT received call from Shannon Simpkins at SAC and relayed more information and received reference number #1-12JBXG

August 9, 2021

-The results from the grab sample were received.

August 18, 2021

- -The results from the composite sample were received.
- -All results were below the limits set out in the ECA #6045-ARDJS7

Sampler Name:							#	Eff	Station Acronym		Email:	Fax:	Address:						
Name:							THE STATE OF THE S	E#	Station Number (Short Name)								15.0	Ta =	. 1 -
DAN CAI							- Efficient (Composite)	Effluent (Grab)	Sample Location Name	Sample	medney2@ocwa.com	519-374-5782	18 Caroline Street Southampton, ON N0H 2L0	Report to: Megan Edney	Requested Turnaround Time:	Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment	Ouote # Attached Parameter List	Org. # 5620	roject #
CARSAR								08.45	Date & Time Collected Gottles		medney2@ocwa.com	(519) 797-3080	18 Caroline Street Southampton, ON NOH 2LO	Data Transfer Contact: Megan Edney		the sample(s) fall. No Requirement t	No Yes	7	110000819
Samp							2		Free	Ω	m		П	act: Megai	App. Req'd	o Report			
Sampler Signature:									Total	CI Residual (mg/L)				n Edney	α.	Sample R			
nre:									Combined (mg/L)	(mg/L)					24-48 þ	esults Und			
Day Cores							×		Total Suspender Solids Total Phosphorous	i	apwesthighlands@ocwa.com	(519) 925-0322	Shelburne, ON L9V 3K5	Invoice To: Ontario Clean	×	der Any Regulation for W	Tempe	Date Rec'd:	C of C LIMS No:
acos								×	E.Coli		a.com					astewate	rature U	A	too
1							>		CBOD₅ TKN	Paramaters				Water Agency	5-7d	er Treatmen	Temperature Upon Receipt	AUG 0 7 2021	122
							>		Total Ammonia Nitrogen								160	021	6
							>	10	Nitrate									Time Rec'd:	
							>	; Y)	Nitrite + Nitrate		car	705	188 Kol	Lat	7-10d		ဂိ	lec'd:	
								pH = 1.48 Temperature (C) = 22.3°-		Comments	carrie.greenlaw@sgs.com	705-652-6365	185 Concession St. Lakefield, ON K0L 2H0	Laboratory: SGS Lakefield Research Ltd	Other Specify:		S	Rec'd: Initials	
	No Yes	No Yes	No Yes	Yes O	s és □□	% és		Yes No	Upload to MO	E				rch Ltd				767	
	Z É	₹ €	× es	₹ 6 □□	₹ ég	₹ és	No	Yes X	Upload to OCV	VA									

* Station Actonym: Cell - Cell Contents, Dis - Disinfection, Down - Downstream, Eff - Final Effluent, PrBy - Primary Bypass, Paw - Flaw Sewage, ScBy - Secondary Bypass, Up - Upstream, Well - Monitoring Well, Act - Aeration, Birs - Biosolids thickening, Bpd - Biosolids princer, Bas - Biosolids sec super, Bas - Biosoli walked down @ 12:00 200 Revised: 2018-09-21

un of 11 42 bebooked thou



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819

Project: PO#017018

09-August-2021

Date Rec.: 07 August 2021 LR Report: CA13316-AUG21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Sample ID	Sample Date & Time	Temperature Upon Receipt °C	•	Field Temperature celcius	E. Coli cfu/100mL
1: Analysis Start Date					07-Aug-21
2: Analysis Start Time					14:22
3: Analysis Completed Date					09-Aug-21
4: Analysis Completed Time					11:10
5: Client Limits May to Oct			6.0-9.5		200 (May 15-Sep15)
9: Eff Eff-Effluent (Grab)	06-Aug-21 08:45	16.0	7.48	22.3	< 2

Carrie Greenlaw Project Specialist,

Ontario Clean Water Agency - Request for Laboratory Services and CHAIN OF CUSTODY - SEWAGE (BYPASS)

Waterworks/Project # 110000819

Facility Name

No Yes Temperature Upon Receipt 20, 19 °C	Wiarton WWTP Laboratory Section AUG 1 0 2021 Sample condition upo Date Rec'd: AUG 1 0 2021 Time Rec'd:	11 110000819 C of C LIMS No: A C
irature Upon Receipt 20,19 °C	UG 1 0 2021	56 - 556

Page 1 of 1

	CIG.		Date necu.	initials initials
	Quote # Attached Parameter List No	Yes	Temperature Upon Receipt 20,19	ိုင်
	Identification of Regulation under which the san	mple(s) fall: No Requirement to Report Sample Re	Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment	
	Requested Turnaround Time:	App. Reg'd	24-48 h x 150 Ces Ch 1 5-70	7-10d Other Specify:
	Report to: Megan Edney	Data Transfer Contact: Megan Edney	Invoice To: Ontario Clean Water Agency	Laboratory: SGS Lakefield Research Ltd
Address:	18 Caroline Street	18 Caroline Street	136 Main St. E	185 Concession St.
	Southampton, ON	Southampton, ON	Shelburne, ON	Lakefield, ON
	NOH 2LO	NOH 2L0	L9V 3K5	K0L 2H0
Telephone:	519-374-5782	519-374-5782	(519) 925-1938	705-652-2000
Fax:	(519) 797-3080	(519) 797-3080	(519) 925-0322	705-652-6365
Email:	mednev2@ocwa.com	medney2@ocwa.com	apwesthighlands@ocwa.com))

Sampler Name							Ħ	#	Station Acronym	
Vame:							Eff	=	Station Number (Short Name)	
Dans CATION							- Effluent (Composite)	Ellibent (Grab)	Sample Location Name	Sample
ガンロの							17.08		Date & Time Collected 2021 OS C6	
							N	-	# of Bottles	
Sample									Free	CIF
Sampler Signature:	100								Total	CI Residual (mg/L)
ure:									Combined (mg/L)	(mg/L)
Dam Carsan							× × × × × × ×	X Prr= Temperature (G)	Total Suspended Solids Total Phosphorous E.Coli CBODs TKN Total Ammonia Nitrogen Nitrite Nitrate Nitrate	Paramaters
	No.	No	Yes[Yes	Yes[Yes	No No	ture (C) = No	Upload to MOE	Comments
	S es □	No C	No C	Z és	S š	Yos C	Ves ⊠	No X		

*Station Actionym: Cell ** Cell Contents, Dis ** Distribution, Down - Downstream, Eff - Final Effluent, PrBy - Primary Bypass, Raw - Faw Sewage, ScBy * Secondary Bypass, Up - Upstream, Well - Monitoring Well, Aer - Aeration, Brs - Biosolids raw sludge, Bh - Biosolids primary digestion, Bgd - Biosolids soc, digestion, Bgd - Biosolids soc, digestion, Brs - Biosolids soc, digestion,

607690106374 ZT 16:00 7



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

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

18-August-2021

Date Rec.: 10 August 2021 LR Report: CA12261-AUG21

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							06-Aug-21 17:00
Temperature Upon Receipt [°C]							19.5
Carbonaceous Biochemical Oxygen Demand [(CBOD5) mg/L]	11-Aug-21	17:58	16-Aug-21	15:29	15.0	10.0	< 2
Total Suspended Solids [mg/L]	13-Aug-21	10:12	16-Aug-21	16:15	15.0	10.0	3
Phosphorus (total) [mg/L]	11-Aug-21	15:17	12-Aug-21	18:04	0.3	0.15	< 0.03
Total Kjeldahl Nitrogen [as N mg/L]	13-Aug-21	07:10	16-Aug-21	13:50			1.3
Ammonia+Ammonium (N) [as N mg/L]	10-Aug-21	21:50	11-Aug-21	14:42	3.0	3.0	0.3
Nitrite (as N) [mg/L]	11-Aug-21	23:10	17-Aug-21	15:25			0.03
Nitrate (as N) [mg/L]	11-Aug-21	23:10	17-Aug-21	15:25			0.34
Nitrate + Nitrite (as N) [mg/L]	11-Aug-21	23:10	17-Aug-21	15:25			0.37

Carrie Greei⁄rlaw Project Specialist,

From: Karla Young

To: "Graham, Robert G. (MECP)"; "Smith, Mark (MECP)"

Cc: Leo-Paul Frigault; Michelle Neal; Camille Leung; Mike Mortimer; Melissa Cortes

Subject: 2021 Q4 - Bypass/Overflow Event Summary - Wiarton WWTP (110000819) - Town of South Bruce Peninsula

Date: February-14-22 1:13:00 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.

Date	Tiı	me	Duration	Volume		Samples Collected	Reason for	Impact of Event	Mitigation
Date	Start	End	нн:мм	(M ³)	Bypassed	Conected	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.

Doto	Tir	ne	Duration	Volume		Disinfection		Reason	Impact	Mitigation: Taken and
Date	Start	End	нн:мм	(M ³)	Receiver	Status of Overflow	Conectea	for 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
kyoung@ocwa.com
(519) 374 - 5782



Appendix ESeptage Laboratory Results

R 100

Yes Yes Yes Yes No No No Yes No Yes Upload to OCWA Yes Yes Yes Yes No Yes No Yes Laboratory: SGS Lakefield Research Ltd Upload to MOE acid preservative,
2 - 40 mL EPA vials unpreserved
(no headspace),
2 - 40 mL EPA vials w/ sodium
bisulphate preservative (no I - 60 mL plastic w/ sulphuric Specify: Comments 500 mL PET bottles, Sample condition upon receipt 185 Concession St. Lakefield, ON 705-652-6365 carrie.oreenlaw 705-652-2000 Other KOL 2HO Xylene × S 7-10d Time Rec'd: × 5,66 Toluene Chloride × Methylene Ketone × Wethyl Ethyl Chloride × Methylene Date Rec'd: JAN 0 7 2021 Temperature Upon Receipt Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment 5-7d Methyl Alcohol × Castor Invoice To: Ontario Clean Water Agency Isopropyl Alcohol × Parameters × × Ethylbenzene ocwa.com × Benzene Ontario Clean Water Agency - Request for Laboratory Services and CHAIN OF CUSTODY - SEWAGE (MONTHLY - SEPTAGE - PAGE 1 of 1) C of C LIMS No: Day Laboratory Section × (519) 925-1938 (519) 925-0322 Acetone 136 Main St. E Shelburne, ON apwesthighlands Demand × Chemical Oxygen .9V 3K5 Nitrogen × sinommA lstoT 24-48 h × LKN Sampler Signature: Phosphorous Total Data Transfer Contact: Megan Edney Solids × Total Suspended App. Red × BODe medney2@ocwa.com # of Bottles 1 18 Caroline Street Southampton, ON (519) 797-3080 519-374-5782 NOH 2LO Date & Time 2021/01/205 Collected 01:11 CAESAR 110000819 Wiarton WWTP Sample Location Name DAN Septage - Holding Tank Sample Requested Turnaround Time: 5620 Waterworks/Project # Report to: Megan Edney 18 Caroline Street Southampton, ON Attached Parameter List NOH 2L0 519-374-5782 (519) 797-3080 mednev2@ocwa.com Facility Name Org. # Quote # . Station Number (Short Name) Sept Sampler Name: Address: Sept Fax: Email: Station Acronym

* Staton Acronym: Cell * Cell Contents, Dis * Disinfection, Down - Downstream, EH * Final Effluent, PRBy * Primary Bypass, Raw * Raw Sewage, ScBy * Secondary Bypass, Up - Upstream, Well - Monitoring Well, Aer * Aerastion, Brs * Biosolids state super, Bst & Secondary Preash State * Secondary Bypass, Los * Primary Treatment/Srit, Primary Effluent, RAS * Return Activated Studge, StB * Secondary Treatment State * Secondary Bypass, Forther * Primary Treatment/Srit, Primary Treatment, RAS * Return Activated Studge, WAS * Waste Activated Studge, WAS * Waste Activated Studge, Indv * Industrial Wastewater, PSIn * Sept * Septage, Lcht * Leachate, P77 * Primary Treatment, ReAr * Re-aeration, Tert * Tertiary Treatment, Allo * Actific, TeBy * Tertiary Bypass, Hold * Holding Tank, CSO * Combined Sewer Overflow, SSO * Sanitary Sewer Overflow.

Revised: 2017.12.01

Revision #1

28228

Ontario Clean Water Agency - Request for Laboratory Services and CHAIN OF CUSTODY - SEWAGE (QUARTERLY SEPTAGE)

Time Rec'd: Initials Time Rec'd: Initials Time Rec'd: Initials Time Rec'd:	Souths Under Any Regulation for Wastewater Treatment App. 24-48 h Laboratory SGS Lakefield Research Ltd Trime Rec'd: Temperature Upon Receipt App. 24-48 h Laboratory SGS Lakefield Research Ltd 136 Main St. E Sheburne, ON Laboratory SGS Lakefield Research Ltd 136 Concession St. Laboratory SGS Lakefield Research Ltd 1519 925-1938 Sheburne, ON Laboratory SGS Lakefield Research Ltd 1519 925-1938 Sheburne, ON Laboratory SGS Lakefield Research Ltd 1519 925-1938 Sheburne, ON Laboratory SGS Lakefield Research Ltd 1519 925-1938 Sheburne, ON Laboratory SGS Lakefield Research Ltd 1519 925-1938 Sheburne, ON Laboratory SGS Lakefield Research Ltd The School on St. App. 25-100 Other Specify. Code of the Sheburne, ON Roll 24-10 Other Specify. Approximate Sheburne, ON Roll 24-10 Other Specify. Approx	Time Rec'd: Initials 5-7d 7-10d Other Specify. Laboratory: SGS Lakefield Research Ltd Not. 2+0 Not. 2+	Waterworks/Project # 110000819 Facility Name Wiarton WWTP	a	0819 VTP								0 3	of C	C of C LIMS No: Laboratory Section	No:							Sa	nple c	Sample condition upon receipt		
Plon Receipt Control Control Control Comments Secretary Control Contr	S-7d 7-10d Other Specify. Comments Secify. Comments Secify.	Security												Dat	e Rec'c	ij				A	-	Tim	e Rec'	-			
App. 24-48 h Invoice To: Ontario Clean Water Agency 136 Main St. E Sheburne, ON 136 Main St. E Sheburne, ON 137 925-1938 (519) 925-1938 (519) 925-0322 (519	App. 24-48 h Invoice To: Ontario Clean Water Agency Iso Main St. E Shelburne, ON Iso V3K5 Is	Total	Attached Parameter List No Attached Parameter List No Requirement to Report Sample Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample	No Negarisement to Report	No Yes sample(s) fall: No Requirement to Report Sample	es Report Sample	t Sample	8	Resi	ults Un	der An	y Regu	lation 1	for Wa	Tewate	empera er Trea	ature U	Jpon B	eceipt	7	9	2		0			
Invoice To: Ontario Clean Water Agency Laboratory: SGS Lakefleid Research Ltd 138 Main St. E Shebbure, ON 188 Concession St. Lakefleid, ON 199 925-1938 199	Invoice To: Ontario Clean Water Agency Laboratory: SGS Lakefield Research Ltd 138 Main St. E Shelburne, ON Lgy 3855. 1836 1519) 925-1322 3pwesthighlands@ocwa.com Salcin and Sal	Invoice To: Oritario Olean Water Agency Lebboratory, SGS Lakerleid Research Ltd	Requested Turnaround Time:	quested Turnaround Time:						b App.		2	4-48 h				×		P2-9				7-1	_B			
136 Main St. E 137 Section St. 137 Section St. 137 Section St. 138 Section St. 1	Cadmium Comments	Shalm St. E Shakare, ON Lay 3565 Shakare, ON Lay 3665 Shakare, O	Edney	Data Transfer Contact: Me	Data Transfer Contact: Megan Edn	tact: Megan Edn	egan Edn	P	ey				In	voice T	To: On	tario Ci	lean W	ater A	gency					Lab	oratory: SGS Lakefield Resear	rch Ltd	
Cadmium Copper Copalit Copper Copalit Copper Copalit Copper Copalit Copper Copalit Copper Copalit Copper Comments Copper Comments Copper Comments C	Cadmium Cadmium Cobair Copper Magnesium Silver Potassium Silver Comments Comments Tin	Gistly 1925-20200 Gist	on ON	ON	18 Caroline Street Southampton, ON NOH 2L0								15 S	36 Mair helburn 3V 3K5	n St. E									Lak 185	Concession St. sfield, ON 2H0		
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Cadmium Chromium Chromium Chromium Choper Lead Magnesium Magnesium Manganese	Cadmium Calcium Chromium Chromium Chromium Chromium Chromium Cobait Iron Manganese Magnesium Selenium Silvet Alicket Macury Manganese Macury Manganese Macury Tin	Comments X Cadmium X Cadmium X Cadmium X Copper X Magnesium X Ma							11												11						
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* Station According: Daw Chatest Picker State St

Revision #1

Revised: 2017,12.01

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P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819

Project: PO#017018

21-January-2021

Date Rec.: 07 January 2021 LR Report: CA13167-JAN21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis	2: Analysis	3: Analysis	4: Analysis	5: Sept
	Start Date	Start Time	Completed Date	Completed Time	Sept-Septage-Hol ding Tank
Sample Date & Time					06-Jan-21 11:10
Temperature Upon Receipt [°C]					6.0
Biochemical Oxygen Demand (BOD5) [mg/L]	07-Jan-21	18:12	12-Jan-21	14:42	2200
Total Suspended Solids [mg/L]	11-Jan-21	07:44	14-Jan-21	08:40	368
Chemical Oxygen Demand [mg/L]	11-Jan-21	12:04	12-Jan-21	14:42	2520
Ammonia+Ammonium (N) [as N mg/L]	07-Jan-21	15:01	11-Jan-21	11:54	2.5
Total Kjeldahl Nitrogen [as N mg/L]	08-Jan-21	09:05	12-Jan-21	10:27	53.6
Isopropyl Alcohol [mg/L]	18-Jan-21	10:45	20-Jan-21	15:49	< 5
Methyl alcohol [mg/L]	18-Jan-21	10:45	20-Jan-21	15:49	< 5
Acetone [ug/L]	12-Jan-21	12:30	13-Jan-21	10:51	< 1200
Benzene [ug/L]	12-Jan-21	12:30	13-Jan-21	10:51	< 20
Ethylbenzene [ug/L]	12-Jan-21	12:30	13-Jan-21	10:51	< 20
Dichloromethane [ug/L]	12-Jan-21	12:30	13-Jan-21	10:51	< 20
Methyl ethyl ketone [ug/L]	12-Jan-21	12:30	13-Jan-21	10:51	< 800
Toluene [ug/L]	12-Jan-21	12:30	13-Jan-21	10:51	36.4
Xylene (total) [ug/L]	12-Jan-21	12:30	13-Jan-21	10:51	< 20
o-xylene [ug/L]	12-Jan-21	12:30	13-Jan-21	10:51	< 20
m/p-xylene [ug/L]	12-Jan-21	12:30	13-Jan-21	10:51	< 20
Phosphorus (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	9.34
Aluminum (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.629
Arsenic (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.0016
Barium (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.0453
Cadmium (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.000162
Calcium (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	123
Chromium (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.00200
Cobalt (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.00120
Copper (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.166
Iron (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	10.0
Lead (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.00375
Magnesium (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	27.7
Manganese (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.490
Mercury (total) [ug/L]	08-Jan-21	15:25	11-Jan-21	10:49	< 0.01



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819

PO#017018

Project : LR Report : CA13167-JAN21

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Nickel (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.0097
Potassium (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	40.6
Selenium (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.00069
Silver (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	< 0.00005
Sodium (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	93.0
Tin (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.00053
Zinc (total) [mg/L]	11-Jan-21	13:26	12-Jan-21	12:06	0.464

Carrie Greenlaw Project Specialist,

		Waterworks/Project # 110000819	0819					U	ofC	C of C LIMS No:	No:	7	N	0	()	Š	-		1			
)		Facility Name Wiarton WWTP Org. # 5620	WTP					Ę	Laboratory Section Date Rec'd:	atory Section Date Rec'd:	tion d:	田田	FEB 0 4 2021	202	900		Samp Time Rec'd:	Sample lec'd:	pood	Sample condition upon receipt lec'd:	Z	<
		Ouote # Attached Parameter List	No	Yes							Tempe	Temperature Upon Receipt	Upon	Receip	j	X	00		ပ္			
		Identification of Regulation under which the sample(s) falt. No Requirement to	he sample(s) fall: No Requireme.		oort Sa	mple R	esults	Juder A	Report Sample Results Under Any Regulation for Wastewater Treatment	nulation	for Wa	astewa	ter Tre	atment		1						
		Requested Turnaround Time:			App. Req'		CV.	24-48 h	Ш			×		5-7d	7,1		12	P01-2		Other Specify:		1
	,,,,	Report to: Megan Edney	Data Transfer Contact: Megan Edney	Contact:	Wegan	Edney		In	Invoice To: Ontario Clean Water Agency	onte	ario Cle	san Wa	iter Ag	ency					abora	Laboratory: SGS Lakefield Research Ltd	rch Ltd	
Address:		18 Caroline Street Southampton, ON NOH 21 0	18 Caroline Street Southampton, ON NOH 2L0	ON				5 5 6	136 Main St. E Shelburne, ON L9V 3K5	St. E								- July 356	185 Cond Lakefield Kol. 2H0	185 Concession St. Lakefield, ON KOL 2H0		
Telephone:		519-374-5782	519-374-5782					(5)	(519) 925-1938	-1938								-	705-65	705-652-2000		
Fax: Email:		medney2@ocwa.com	mednev2@ocwa.co	а.сош				de	apwesthighlands@ocwa.com	hlands	s@ocw.	a,com		П				51	carrie.	carrie. greenlaw@sqs.com		
		Sample		1							Par	Parameters	so.						П	Comments	1	V
Station Acronym	Station Number (Short Name)	Sample Location Name	Date & Time Collected FEB 0 3 2021	# of Bollles	BOD⁵	Total Suspended Solids	Total	Total Ammonia	Mitrogen Chemical Oxygen	Demand	Benzene	Ethylbenzene	Isopropyl Alcohol	Methyl Alcohol	Methylene	Methyl Ethyl Ketone	Methylene Chloride	Toluene	Xylene		Upload to MOE	WOO of beoldU
Sept	Sept	- Septage - Holding Tank	1100	2	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	2 - 500 mL PET bottles, 1 - 60 mL plastic w/ sulphuric ancid preservative, 2 - 40 mL EPA vials unpreserved (no headspace) - 1 - 40 mL EPA vials w/ sodum bisulphate preservative (no	S S S	
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Sampler Name:	зте:	Se In	11		Samp	Sampler Signature:	ature:		1			1										

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Revised: 2017,12.01



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

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

16-February-2021

Date Rec.: 04 February 2021 LR Report: CA12667-FEB21

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					03-Feb-21 11:00
Temperature Upon Receipt [°C]					10.0
Biochemical Oxygen Demand (BOD5) [mg/L]	04-Feb-21	17:28	09-Feb-21	13:36	1280
Total Suspended Solids [mg/L]	08-Feb-21	07:56	09-Feb-21	14:32	192
Chemical Oxygen Demand [mg/L]	05-Feb-21	11:31	09-Feb-21	15:35	2020
Ammonia+Ammonium (N) [as N mg/L]	04-Feb-21	16:43	05-Feb-21	14:08	25.9
Total Kjeldahl Nitrogen [as N mg/L]	05-Feb-21	10:02	09-Feb-21	14:56	55.6
Phosphorus (total) [mg/L]	05-Feb-21	10:02	12-Feb-21	15:44	6.8
Isopropyl Alcohol [mg/L]	12-Feb-21	09:49	12-Feb-21	16:33	< 5
Methyl alcohol [mg/L]	12-Feb-21	09:49	12-Feb-21	16:33	< 5
Acetone [ug/L]	11-Feb-21	13:42	12-Feb-21	15:54	< 1200
Benzene [ug/L]	11-Feb-21	13:42	12-Feb-21	15:54	< 20
Ethylbenzene [ug/L]	11-Feb-21	13:42	12-Feb-21	15:54	< 20
Dichloromethane [ug/L]	11-Feb-21	13:42	12-Feb-21	15:54	< 20
Methyl ethyl ketone [ug/L]	11-Feb-21	13:42	12-Feb-21	15:54	< 800
Toluene [ug/L]	11-Feb-21	13:42	12-Feb-21	15:54	130
Xylene (total) [ug/L]	11-Feb-21	13:42	12-Feb-21	15:54	< 20
o-xylene [ug/L]	11-Feb-21	13:42	12-Feb-21	15:54	< 20
m/p-xylene [ug/L]	11-Feb-21	13:42	12-Feb-21	15:54	< 20

Carrie Greenlaw Project Specialist,

					Sept	Station Acronym		Email:	Fax:	Address.	2					(
					Sept	Station Number (Short Name)			ď								
								medn	(519)	Southam NOH 2LO	Repo	Э	Identi	Quote # Attached	Org. #	Facil	Wate
					Septage - Holding Tank	Sample Location Name	Sample	medney2@ocwa.com	(519) 797-3080	Southampton, ON NOH 2L0	Report to: Megan Edney	Requested Turnaround Time:	Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment	Quote # Attached Parameter List		Facility Name Wiarton WWTP	Waterworks/Project # 110000819
					13:15	Date & Time Collected 203 03 03		medney2@ocwa.com	(519) 797-3080	Southampton, ON NOH 2LO	Data Transfer Contact: Megan Edney		he sample(s) fall: No Requirem	No		WTP	0819
					7	# of Bottles	1	wa.com	0	ON S	Contact		ent to R	Yes			
	=				×	BOD ₅					Mega	App. Req	eport S		1		
	11			111	×	Total Suspended Solids					n Edne		sample				
				1.1	×	Total Phosphorous		1			ey		Resul				
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					X	Total Ammonia Nitrogen		apwe	(519)	Shelburn	Invoi	3 h	er Any		-	Labo	Cot
					×	Chemical Oxygen Demand		sthigh	(519) 925-0322	Shelburne, ON L9V 3K5	Invoice To: Or		Regul		Date	ratory	CLI
1			Ī		×	Acetone		ands(c	322	S S	Ontar		ation f	_	Date Rec'd:	Laboratory Section	C of C LIMS No:
					×	Benzene	Para	apwesthighlands@ocwa.com			Invoice To: Ontario Clean Water Agency		or Wa	Temperature U	**	9	0.
					×	Ethylbenzene	Parameters	com			an Wa	×	stewat	ature	*	1	_
					×	Isopropyl Alcohol					er Age		er Trea	Jpon f	200	-	Ĭ
	. 4	-			×	Methyl Alcohol					incy	5-7d	tment	pon Receipt	R 0 4 2021		1
					×	Methylene Chloride									77		_
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		F	=		×	Methylene Chloride		1					(5	Time		711
					×	Toluene						7-10d	10	T,	Time Rec'd:	Samp	V
					×	Xylene		carrie	705-6	Lakefield KOL 2HO	Labor	10		റ്	1	le con	
					2 - 500 mL PET bottles, 1 - 60 mL plastic w/ sulphuric acid preservative, 2 - 40 mL EPA vials unpreserved (no headspace), 2 - 40 mL EPA vials w/ sodium bisulphate preservative (no headspace)		Comments	carrie.oreenlaw@sos.com	705-652-6365	Lakefield, ON KOL 2H0 705-652-2000	Laboratory: SGS Lakefield Research Ltd	Other Specify:			Initials	Sample condition upon receipt	
No Yes	Yes	Yes	No Tes	Yes	No. Yes	Upload to MOE					rch Ltd				3		
No Yes	N N	No T	2 × 6	N K	N N	Upload to OCW	Α										

* Station Acronym; Cell - Cell Contents, Dis - Disinfection, Down - Downstream, Eff - Final Effluent, PrBy - Primary Bypass, Raw - Raw Sewage, ScBy - Secondary Bypass, Up - Upstream, Well - Manitoring Well, Aer - Aeration, Brs - Biosolids-Biosolids blokening, Bod - Biosolids sending se

Revision #1

Revised: 2017.12.01

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P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

18-March-2021

Works #: 110000819

Project: PO#017018

Date Rec.: 04 March 2021 LR Report: CA12142-MAR21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					03-Mar-21 13:15
Temperature Upon Receipt [°C]					7.0
Biochemical Oxygen Demand (BOD5) [mg/L]	04-Mar-21	17:41	09-Mar-21	13:32	50
Total Suspended Solids [mg/L]	09-Mar-21	11:40	11-Mar-21	07:57	87
Chemical Oxygen Demand [mg/L]	05-Mar-21	12:45	10-Mar-21	11:54	103
Ammonia+Ammonium (N) [as N mg/L]	08-Mar-21	20:40	09-Mar-21	10:50	27.9
Total Kjeldahl Nitrogen [as N mg/L]	08-Mar-21	10:56	12-Mar-21	13:56	35.8
Phosphorus (total) [mg/L]	08-Mar-21	10:56	11-Mar-21	14:56	3.6
Isopropyl Alcohol [mg/L]	16-Mar-21	08:05	18-Mar-21	12:17	< 5
Methyl alcohol [mg/L]	16-Mar-21	08:05	18-Mar-21	12:17	< 5
Acetone [ug/L]	08-Mar-21	16:43	09-Mar-21	10:23	< 30
Benzene [ug/L]	08-Mar-21	16:43	09-Mar-21	10:23	< 0.5
Ethylbenzene [ug/L]	08-Mar-21	16:43	09-Mar-21	10:23	< 0.5
Dichloromethane [ug/L]	08-Mar-21	16:43	09-Mar-21	10:23	< 0.5
Methyl ethyl ketone [ug/L]	08-Mar-21	16:43	09-Mar-21	10:23	< 20
Toluene [ug/L]	08-Mar-21	16:43	09-Mar-21	10:23	18.3
Xylene (total) [ug/L]	08-Mar-21	16:43	09-Mar-21	10:23	< 0.5
o-xylene [ug/L]	08-Mar-21	16:43	09-Mar-21	10:23	< 0.5
m/p-xylene [ug/L]	08-Mar-21	16:43	09-Mar-21	10:23	< 0.5

Carrie Greenlaw Project Specialist,

Sampler Name:						Sept	Station Acronym		Ciridi.	Fax:	Telephone:	Address:							(1
ne:						Sept	Station Number (Short Name)													
			1		+	- A.		1	nedite	519) 7	519-37	18 Caroli Southam NOH 2L0	Report	Re	dentifi	Attache	Quote #	Org. #	Facili	Mato
Day C						Septage - Holding Tank	Sample Location Name	Sample	illedi.eyz@zocwa.com	(519) 797-3080	519-374-5782	18 Caroline Street Southampton, ON NOH 2L0	Report to: Megan Edney	Requested Turnaround Time:	Identification of Regulation under which the sample(s) fall. No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment	Attached Parameter List		T T T T T T T T T T T T T T T T T T T	Wisht !	
Cargar						11:15	Date & Time Collected V		medney2@ocwa.com	(519) 797-3080	519-374-5782	18 Caroline Street Southampton, ON	Data Transfer Contact: Megan Edney		he sample(s) fall: No Requiremen	No			N W/WTB	2027
						7	. # of Bottles		a.com			Z	ontact:		nt to Re	Yes	1			
Sampler Signature:						×	BOD₅				J		Megar	App. Req'	port S					1
er Sign						×	Total Suspended Solids						Edne		ample					
ature					1	7 ×	Total Phosphorous						1		Results					
						(×	TKN		100					24-48 h	Unde					
						×	Total Ammonia Nitrogen		apwesthighlands@ocwa.com	(519) 925-0322	(519) 92	136 Main St. E Shelburne, ON	Invoice To: Ontario Clean	- J	Any F	1		Laboratory Section	C of C LIMS No:	9
9						×	Chemical Oxygen Demand		highlar	25-032	25.193	in St.	To: C		legulat		Date Hec d.	atory S	LIM	
	-		1			×	Acetone	T	ids@o	200	00	2 111	ntario		ion for	Ten	ec d:	ection	SNO	
	-	-	-	-		×	Benzene	Parameters	cwa.co						Waste	Temperatu	1		T	¥
'	H	-	-	-		×	Ethylbenzene	ters	13				Water Agency	×	water	re Up	ľ	APR 1	0	1
	-			-		×	Isopropyl Alcohol Methyl Alcohol						Agenc	5-7d	reatm	re Upon Receipt	W.	5 2021	1	1
	-			+	=	× ×	Methylene		И	1		1		7d	ent	eipt		21	1	1
1				Ħ		×	Chloride Methyl Ethyl						K			V			V	1
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1						×	Chloride Toluene		Ш					7-10d			Time Rec'd:	Sar		
						×	Xylene		carri	705	N P	185 Lake	Lab			റ്	9	nple co		
						2 - 500 mL PET bottles, 1 - 60 mL plastic W/ suphyric acid preservative, 2 - 40 mL EPA vials unpreserved (no headspace), 2 - 40 mL EPA vials w/ sodium bisulphate preservative (no headspace)		Comments	carrie.oreenlaw@sgs.com	705-652-6365	KOL 2HO	185 Concession St. Lakefield, ON	ratory: SGS Lakefield Resea	Other Specify:			Initials	Sample condition upon receipt		
	Yes	Yes	Yes		Yes	No Yes	Upload to MOE						rch Ltd				1	1		
	Yes D	Yes 🗌	Yes	No Yes	S Yes	Yes X	Upload to OCWA								H	-	1	5		

Station Acronym. Cell - Cell Contents, Dis - Distriction, Down - Downstream, Eft - Final Effluent, PiBy - Primary Bypass, Raw - Raw Sewage, ScBy - Secundary Bypass, Up - Upstream, Well - Monitoring Well, Aer - Aeration, Brs - Biosolids set, Brs - Biosolids set, Bas - Biosolids set, Bas - Biosolids set, Bas - Biosolids set, Bas - Biosolids set, Brs - Brs - Biosolids set, Brs - Brs - Biosolids set, Brs - Brs -

Revision #1

Revised: 2017 12.01

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P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

26-April-2021

Works #: 110000819

Project: PO#017018

Date Rec. : 15 April 2021 LR Report: CA12598-APR21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					14-Apr-21 11:15
Temperature Upon Receipt [°C]					7.0
Biochemical Oxygen Demand (BOD5) [mg/L]	15-Apr-21	18:00	20-Apr-21	11:46	1320
Total Suspended Solids [mg/L]	19-Apr-21	09:10	20-Apr-21	12:19	458
Chemical Oxygen Demand [mg/L]	16-Apr-21	11:09	20-Apr-21	11:46	2020
Ammonia+Ammonium (N) [as N mg/L]	15-Apr-21	21:00	16-Apr-21	16:23	38.9
Total Kjeldahl Nitrogen [as N mg/L]	16-Apr-21	08:14	20-Apr-21	12:29	84.2
Phosphorus (total) [mg/L]	16-Apr-21	08:14	20-Apr-21	10:48	13.2
Isopropyl Alcohol [mg/L]	21-Apr-21	12:27	23-Apr-21	17:06	< 5
Methyl alcohol [mg/L]	21-Apr-21	12:27	23-Apr-21	17:06	< 5
Acetone [ug/L]	20-Apr-21	07:10	21-Apr-21	09:07	93
Benzene [ug/L]	20-Apr-21	07:10	21-Apr-21	09:07	< 0.5
Ethylbenzene [ug/L]	20-Apr-21	07:10	21-Apr-21	09:07	< 0.5
Dichloromethane [ug/L]	20-Apr-21	07:10	21-Apr-21	09:07	< 0.5
Methyl ethyl ketone [ug/L]	20-Apr-21	07:10	21-Apr-21	09:07	78
Toluene [ug/L]	20-Apr-21	07:10	21-Apr-21	15:41	228
Xylene (total) [ug/L]	20-Apr-21	07:10	21-Apr-21	09:07	< 0.5
o-xylene [ug/L]	20-Apr-21	07:10	21-Apr-21	09:07	< 0.5
m/p-xylene [ug/L]	20-Apr-21	07:10	21-Apr-21	09:07	< 0.5

Carrie Greenlaw Project Specialist,

Sampler Name:							Sept		Station Acronym		Email:	Fax:	Address							
Vame:							Sept		Station Number (Short Name)			œ								
				1	43	7	3.				med	(519	Non	Rep		lder	Апа	0,0	Fac	Wa
Dan C							Septage - Holding Tank		Sample Location Name	Sample	mednev2@ocwa.com	(519) 797-3080	To Caronite Street Southampton, ON NOH 2L0	Report to: Megan Edney	Requested Turnaround Time:	Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment	Quote # Attached Parameter List	Org. # 5620	Facility Name Wiarton WWTP	Waterworks/Project # 110000819
CAESAA							11:30		Date & Time Collected		medney2@ocwa.com	(519) 797-3080	Southampton, ON NOH 2L0	Data Transfer Contact: Megan Edney		the sample(s) fall: No Requireme	No		WTP	110000819
							N		# of Bottles	1	wa.con	0	ON	Conta		ont to F	Yes			3
							×		Aluminum		13			ct: Me		Report				
							×		Arsenic		П			gan E		Samp				7
				1-			×		Barium			1		dney		le Res				2
Samp							×		Cadmium					11	Арр	ults U				
ler Sig							×		Calcium			1				nder A				1
Sampler Signature:				1 11			×		Chromium							лу Re				101
34							×	3	Cobalt						24-48 h	gulatic				
							×	Ŧ,	Copper		apwesthighlands@oc	(519)	Shelburne, ON L9V 3K5	Invoic	2	on for \			Labo	Cof
in							×		Iron		sthigh	(519) 925-1938	Shelburne, ON L9V 3K5	e To:		Waste		Date Rec'd:	ratory	CL
10							×		Lead	Parameter	ands(938	N II	Invoice To: Ontario C		water	Ten	ec'd:	Laboratory Section	C of C LIMS No:
1							×	-	Magnesium	neters	20CMS			rio Cle		Treat	perat		ion	0:
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11			=	1-7			×		Potassium		П								7071	
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							×		Sodium			1			l by			Time Rec'd:	•	2
							×		Tin			1			7-10d			ec'd:	Samp	
							×		Zinc		carrie.	705-65	185 Conc Lakefield, KOL 2HO	Labora			റ്		e con	
							acid 1- glass bottle perserved with HCL for	1-250 mL metals bottle		Comments	carrie.greenlaw@sgs.com	705-652-2000	185 Concession St. Lakefield, ON KOL 2H0	Laboratory: SGS Lakefield Research Ltd	Other Specify:			Initials	Sample condition upon receipt	
	Yes	8 és	₹ £	No Yes	Yes	No Yes	3	Yes	Upload to MOE					ch Lld				Z	2	5
	No Yes	₹ 6 0	ĕ □□	- Yes	3 š	S K	8	-	Upload to OCW	A.								1		90

Station Actorym: Cell Contents, Dis - Disinfection, Down - Downstream, Eff - Final Effluent, Pf8y - Primary Bypass, Raw - Raw Sewage - ScBy - Secondary Bypass, Up - Upstream, Well - Monitoring Well, Aer - Aeration, Brs - Biosolids suckeying, Bbt - Biosolids seriously Biosonids seriously Bypass, Paw - Raw Sewage - ScBy - Secondary Bypass, Up - Upstream, Well - Monitoring Well, Aer - Aeration, Brs - Biosolids seriously Bbt - Biosolids seriously Biosonids Seriously

Revision #1

Revised: 2017.12.01

K 9.3



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

23-April-2021

Date Rec.: 15 April 2021

LR Report: CA12582-APR21

Works #: 110000819

Project: PO#017018

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					14-Apr-21 11:30
Temperature Upon Receipt [°C]					7.0
Aluminum (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	1.56
Arsenic (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.0014
Barium (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.571
Cadmium (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.000794
Calcium (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	135
Chromium (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.00277
Cobalt (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.00108
Copper (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.327
Iron (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	6.18
Lead (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.00909
Magnesium (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	37.3
Manganese (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.269
Mercury (total) [ug/L]	16-Apr-21	14:04	19-Apr-21	07:43	0.16
Nickel (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.0092
Potassium (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	32.3
Selenium (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.00143
Silver (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.00019
Sodium (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	241
Tin (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.0020
Zinc (total) [mg/L]	21-Apr-21	09:44	23-Apr-21	11:48	0.568



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819

Project: PO#017018 LR Report: CA12582-APR21

Kimberley Didsbury

Project Specialist,

Page 1 of 1

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

No. No. No. Zes og Ses □ □ □ Yes Zes Q Š Š Yes AWOO of beoldU No No Yes Yes Yes Yes Yes Laboratory: SGS Lakefield Research Ltd Upload to MOE acid preservative,

2 - 40 nnL EPA vials unpreserved

(no headspace),

2 - 40 nnL EPA vials w/ sodium

bisulphale preservative (no
headspace) Initials 1 - 60 mL plastic w/ sulphuric Specify: carrie.greenlaw@sgs.com Comments 2 - 500 ml. PET bottles Sample condition upon receipt 185 Concession St 705-652-2000 Lakefield, ON Other KOL 2HO 0 Xylene × 7-10d Time Rec'd: Toluene × Chloride × Methylene 4 Ketone × **Μ**ετμλι Ετμλι Chloride × Methylene JUN 0 2 2021 Temperature Upon Receipt dentification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment P-19 × Methyl Alcohol Invoice To: Ontario Clean Water Agency ισορτοργί Αισοποί × Parameters × × Ethylbenzene cwa.com Benzene × C of C LIMS No: Date Rec'd: × Shelburne, ON Acetone (519) 925-1938 (519) 925-0322 apwesthighlands Demand × L9V 3K5 Chemical Oxygen инболім × Foral Ammonia 24-48 h × IKK Sampler Signature: Phosphorous × Total spilos × Total Suspended Data Transfer Contact: Megan App. Req × BOD® 1 # of Bottles 18 Caroline Street Southampton, ON 519-374-5782 (519) 797-3080 medney2@ocwa,c MAY 3 1 2021 NOH 2LO Date & Time Collected Mad Waterworks/Project # 110000819 Wiarton WWTP 2 Sample Location Name Septage - Holding Tank Sample Requested Turnaround Time: 5620 Attached Parameter List Report to: Megan Edney mednev2@ocwa.com Southampton, ON 18 Caroline Street Facility Name 519) 797-3080 519-374-5782 NOH 2LO Org. # Quote # 6 Station Number (Short Name) Sept Sampler Name: elephone Address: Sept Station Acronym

* Station Actorym. Cell - Cell Contents. Dis - Disinfection, Down - Downstream, Elf - Final Effluent, PBy - Primary Bypass, Raw - Raw Sewage, ScBy - Secondary Bypass, Up. - <u>Up. Upstraam, Welf - Montering Well</u>, Aer - Aeralion, Brs - Blosolids such and Station Station and Station Stati

Revision #1

567573873280 Mm



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

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

16-June-2021

Date Rec.: 02 June 2021 LR Report: CA13119-JUN21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					31-May-21 17:30
Temperature Upon Receipt [°C]					17.0
Biochemical Oxygen Demand (BOD5) [mg/L]	03-Jun-21	18:22	08-Jun-21	12:24	2150
Total Suspended Solids [mg/L]	07-Jun-21	12:50	08-Jun-21	13:19	392
Chemical Oxygen Demand [mg/L]	09-Jun-21	10:40	09-Jun-21	20:32	2850
Ammonia+Ammonium (N) [as N mg/L]	03-Jun-21	19:11	07-Jun-21	13:40	30.0
Total Kjeldahl Nitrogen [as N mg/L]	03-Jun-21	10:52	14-Jun-21	22:20	92.9
Phosphorus (total) [mg/L]	03-Jun-21	10:52	09-Jun-21	08:54	9.3
Isopropyl Alcohol [mg/L]	10-Jun-21	11:05	11-Jun-21	13:35	< 5
Methyl alcohol [mg/L]	10-Jun-21	11:05	11-Jun-21	13:35	< 5
Acetone [ug/L]	09-Jun-21	10:07	11-Jun-21	12:41	< 1200
Benzene [ug/L]	09-Jun-21	10:07	11-Jun-21	12:41	< 20
Ethylbenzene [ug/L]	09-Jun-21	10:07	11-Jun-21	12:41	< 20
Dichloromethane [ug/L]	09-Jun-21	10:07	11-Jun-21	12:41	< 20
Methyl ethyl ketone [ug/L]	09-Jun-21	10:07	11-Jun-21	12:41	< 800
Toluene [ug/L]	09-Jun-21	10:07	11-Jun-21	12:41	54.4
Xylene (total) [ug/L]	09-Jun-21	10:07	11-Jun-21	12:41	< 20
o-xylene [ug/L]	09-Jun-21	10:07	11-Jun-21	12:41	< 20
m/p-xylene [ug/L]	09-Jun-21	10:07	11-Jun-21	12:41	< 20

Carrie Greenlaw Project Specialist,

Sampler Name					Sept	Station Acronym		Email:	Fax:	Address:						()							
Vame:					Sept	Station Number (Short Name)																		
11								medn	(519)	18 Caroli Southam NOH 2LO	Repor	D.	Identif	Quote # Attached	Org. #	Facil	Wate							
)					Sample Location Name	Sample	medney2@ocwa.com	(519) 797-3080	18 Caroline Street Southampton, ON N0H 2L0	Report to: Megan Edney	Requested Turnaround Time:	Identification of Regulation under which the sample(s) fall; No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment	Quote # Attached Parameter List	# 5620	Facility Name Wiarton WWTP	Waterworks/Project # 1100								
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					T	Date Col							iple(s) fal				w							
					X BODs X Total Susper Solids X Total Phosphor X TKN X Total Amm Nitroge			mednev2@ccv/a.com	(519) 797-3080	18 Caroline Street Southampton, ON NDH 2L0	Data Transfer Contact; Megan Edney		l; No Requiremen											
			1	2	# of Bottles		.com		2 19	ontact; M		t to Repo	Yes											
Sampler Signature		1	1	2		BOD ₅ Total Suspended					egan Ec	App. Req	ort Samp											
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0	6	6		Phosph Phosph X Phosph X Total An Nitro X Chemical Dem X Acet X Benz				apwesthighlands@ocwa.com	(519) 925-0322	136 Main St. E Shelburne, ON L9V 3K5 (519) 925-1938	Invoice To: Ontario Clean Water Agency		egulation		Dale Rec'd:	Laboratory Section	LIMS							
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11		3	O	2	×	Methyl Alcohol	Methyl Alcohol	Methyl Alcohol	100000000000000000000000000000000000000	100000000000000000000000000000000000000	100000000000000000000000000000000000000	Methyl Alcohol	Methyl Alcohol	1		П		ency	5-7d	atment	Receipt	2 4 2021		-
111		9			×	Methylene Chloride								2	2		1							
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					2 - 500 mt. PET bottles, 1 - 60 mt. plastic w/ suphuric acid preservative, 2 - 40 mt. EPA vials unpreserved (no plastapace). 12 - 40 mt. EPA vials w/ sodiffin, bisulphate preservative (no hagatspace)		Comments	Callie disculation	2-6365	Lakefield, ON K0L 2H0 705-652-2000	Laboratory: SGS Lakefield Research Ltd	Other Specify:			Initials	Sample condition upon receipt								
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* Station Actonym: Cell - Cell Contents, Dis - Disinfection, Down - Downstream, Eff - Final Effluent, Pdy - Primary Bypass, Raw * Raw Severge, Seby - Secondary Bypass, Up - Upstream, Well - Monitoring Wild, Asr - Actalion, Bis - Blocolids-iaw studge, Bit - Blocolids secondary Tenance (British - Businers Server) and a digestion, Bis - Blocolids secondary February Effections, Bis - Primary February Effections, Bis - Primary February Effections, Bis - Primary February Effections, Bis - Blocolids secondary February Effections, Bis - Blocolids secondary February Effections, Bis - Primary February Effections, Bis - Blocolids secondary Effections, Bis - Blocolids secondary February Effections, Bis - Blocolids secondary Effections,

Revision #1

Revised: 2017.12.01



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819

Project : PO#017018

12-July-2021

Date Rec. : 24 June 2021 LR Report: CA12990-JUN21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					23-Jun-21 11:25
Temperature Upon Receipt [°C]					12.0
Biochemical Oxygen Demand (BOD5) [mg/L]	25-Jun-21	16:52	30-Jun-21	14:34	1660
Total Suspended Solids [mg/L]	28-Jun-21	14:21	02-Jul-21	11:24	329
Chemical Oxygen Demand [mg/L]	25-Jun-21	13:01	30-Jun-21	14:34	2520
Ammonia+Ammonium (N) [as N mg/L]	25-Jun-21	16:19	29-Jun-21	13:10	77.0
Total Kjeldahl Nitrogen [as N mg/L]	25-Jun-21	08:54	29-Jun-21	21:33	123
Phosphorus (total) [mg/L]	25-Jun-21	08:54	30-Jun-21	16:08	12.1
Isopropyl Alcohol [mg/L]	07-Jul-21	10:27	12-Jul-21	14:17	< 5
Methyl alcohol [mg/L]	07-Jul-21	10:27	12-Jul-21	14:17	< 5
Acetone [ug/L]	29-Jun-21	10:51	30-Jun-21	16:21	< 1200
Benzene [ug/L]	29-Jun-21	10:51	30-Jun-21	16:21	< 20
Ethylbenzene [ug/L]	29-Jun-21	10:51	30-Jun-21	16:21	< 20
Dichloromethane [ug/L]	29-Jun-21	10:51	30-Jun-21	16:21	< 20
Methyl ethyl ketone [ug/L]	29-Jun-21	10:51	30-Jun-21	16:21	< 800
Toluene [ug/L]	29-Jun-21	10:51	30-Jun-21	16:21	63.8
Xylene (total) [ug/L]	29-Jun-21	10:51	30-Jun-21	16:21	< 20
o-xylene [ug/L]	29-Jun-21	10:51	30-Jun-21	16:21	< 20
m/p-xylene [ug/L]	29-Jun-21	10:51	30-Jun-21	16:21	< 20

Carrie Greenlaw Project Specialist,

Environment, Health & Safety

regulation.

Cong. Sept. Contracts
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		Facility Name Wiarton WWTP	WTP					_	Laboratory Section	ory Se	ction							Samp	le con	Sample condition upon receipt	1	
		Org. # 5620							٥	Date Rec'd:	c'd:		-	9	160		Time	Time Rec'd:		Initials	1	
		Quote # Attached Parameter List	No	Yes							Tem	JUL U 8 LULI Temperature Upon Receipt	odn a	JUL U B 2021 sture Upon Receipt	UZ I	1833			ပ္			
		Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment	the sample(s) fall; No Requireme	ant to R	sport S	ample	Results	Under	Any Re	gulatio	n for V	Vastew	rater T	eatmer	11							
		Requested Turnaround Time:			App. Req'			24-48 h					×	5-7d				7-10d		Other Specify		
		Report to: Megan Edney	Dala Transfer Conlact: Megan Edney	Contact	Mega	Edne		-	Invoice To: Ontario Clean Water Agency	To: On	tario C	Slean W	Vater A	gency					Labor	Laboratory: SGS Lakefield Research Ltd	ch Ltd	
Address:		18 Caroline Street Southampton, ON NOH 210	18 Caroline Street Southampton, ON NOH 210	on				- 0) _	136 Main St. E Shelburne, ON	SI. E									185 Conc Lakefield	185 Concession St. Lakefield, ON KDI 240		
Telephone:	20	519-374-5782	519-374-5782						(519) 925-1938	5-1938									705-6	705-652-2000		
Fax: Email.		(519) 797-3080 medney2@ocxva.com	(519) 797-3080 mednev2@ocwa.com	va.com				<u> </u>	(519) 925-0322 apwesthighlands@ocwa.com	5-0322 ighland	s@oc	ма.соп							705-6 carrie	705-652-6365 carrie.oreenlaw@sos.com		
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Station Acrony	Station Number (Short Name)	Sample Location Name	Date & Time Collected JUL 0 7 2021	semog to #	\$008	Total Suspende	Total Phosphorous	Total Ammonia	Mitrogen Chemical Oxyge	Demand	enotecA	Benzene	Isopropyl Alcoh	Methyl Alcoho	Methylene Chloride	Methyl Ethyl Ketone	Methylene	Toluene	Xylene		oM of beoldU	Uplosd to OC
Sept	Sept	- Septage - Holding Tank	11:00	7	×	×	×	×	×	×	×	× ×	×	×	×	×	×	×	×	2 - 500 mL PET bottles, 1 - 60 mL plastie w/sulphuric 2 - 40 mL EPA vials unpreserved (no headspace) 40 mL EPA vials w/sodium bisulphate preservative (no	Yes	≥
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Sampler Name:	ame:	Diny	DAN CAESAR		Samp	Sampler Signature;	ature:			17	1 1/	11	N	11/2	Illi,	1	14					
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Revision #1

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Request for Labora
Clean Water Agency -
Ontario

(Waterworks/Project #	110000819									Col	C of C LIMS No: <	MS N	0:0	F		2	245	5					Ì	
)		Facility Name Wia	Wiarton WWTP									Labo	Laboratory Section	Sect	uo							Sar	nple co	Sample condition upon receipt		
		Org. # 5620	0										Date Rec'd:	Jec'd:		1111 0 8 2021	0	707			Tim	Time Rec'd:	Ħ	Initials		
		Quote # Attached Parameter List	No		Yes									Теп	Temperature Upon Receipt	ire Upi	on Rec	eipt	3	3			Ç			
		Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment	nder which the sample	(s) fall: No Requiremen	nt to Re	S hod	ample	Results	Under	Any B	egulati	on for	Waste	water	Treatn	nent										
		Requested Turnaround Time:	ſme:					b App.	c d		24-48 h	۳ (c)				×	us.	P/-9				7-10d	Po	Other Specify:		
		Report to: Megan Edney		Data Transfer Contact: N	Contact	Mega	legan Edney	>				Invoi	Invoice To: Ontario Clean Water Agency	Ontar	io Clea	an Wa	ter Ag	suck					Lab	Laboratory: SGS Lakefield Research Ltd	ch Ltd	
Address:		18 Caroline Street Southampton, ON		18 Caroline Street Southampton, ON	on N				1			Shelburn	136 Main St. E Shelburne, ON	ON E									Lak Xor	185 Concession St. Lakefield, ON Kill 2H0		
Telephone	66	519-374-5782		519-374-5782								(519)	(519) 925-1938	938			П	П	П	Н	11	$\ \ $	705	705-652-2000		
Fax:		(519) 797-3080 mednev2@ocwa.com		(519) 797-3080 medney2@ocwa.com	a.com							(519 apwe	(519) 925-0322 apwesthighlands@ocwa.com	322 ands(эдосма	moo.		W					Car lo	705-652-6365 carrie.greenlaw@sgs.com		
		11																						Comments		
		S	Sample					-	1	-	-			Parar	Parameters	1	1	-	-		+	-	-	2000	3(ΑV
mynorsA noitstä	Station Number (Short (Vame)	Sample Location Name		Date & Time Collected JUL 0 7 2021	# of Boilles	munimulA	Arsenic	Barium	Calcium	Chromium	Cobalt	Copper	lron	реэд	Magnesium	Manganese	Мегсигу	Nickel	Potassium	Selenium	Sodium	niT	Sinc		DM of beolqU	Upload to OCV
Sept	Sapt	- Septage - Holding Tank	g Tank	8=	Q	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	1-250 mL metals bottle preserved with nitric acid 1- glass bottle	No. o.	S S S
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Sampler Name:	Name:	Q	DAL CAE	CAESINE				ń	ampiei	Sampler Signature:	ure:		VI	1	di	M	1	11	1				1			1

Revised: 2017,12.01 Stalian Accorym, Cell. Cell Contents, Dis - Disinfection, Down - Downstream, Eff - Final Effluent, Priby - Primary Bypass, Raw - Raw Sewage, ScBy - Secondary Bypass, Lp - Lipsteam, Well - Monitoring Well, Act - Aeration, Bis + Biosolids subge, SBH - Secondary Treatment, Bis + Biosolids subge, SBH - Secondary Treatment/SBHs, ScEf - Secondary Treatment, Bis + Biosolids subge, SBH - Secondary Treatment, Bis + Biosolids subge, SBH - Secondary Treatment, Bis + Biosolids subge, WAS - Waste Activated Studge, MAS - Waste Activated Studge, WAS - Waste Activated Studge, MAS - Waste Activated Studge, WAS - Wa

Revision #1



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819

Project: PO#017018

26-July-2021

Date Rec. : 08 July 2021 LR Report: CA12340-JUL21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					07-Jul-21 11:00
Temperature Upon Receipt [°C]					18.0
Biochemical Oxygen Demand (BOD5) [mg/L]	08-Jul-21	17:54	13-Jul-21	12:27	468
Total Suspended Solids [mg/L]	14-Jul-21	10:59	15-Jul-21	16:27	476
Chemical Oxygen Demand [mg/L]	13-Jul-21	10:17	14-Jul-21	15:45	2800
Ammonia+Ammonium (N) [as N mg/L]	13-Jul-21	21:47	18-Jul-21	21:32	108
Total Kjeldahl Nitrogen [as N mg/L]	09-Jul-21	06:43	14-Jul-21	05:57	173
Isopropyl Alcohol [mg/L]	21-Jul-21	12:39	26-Jul-21	12:13	< 5
Methyl alcohol [mg/L]	21-Jul-21	12:39	26-Jul-21	12:13	< 5
Acetone [ug/L]	13-Jul-21	14:24	15-Jul-21	11:20	67
Benzene [ug/L]	13-Jul-21	14:24	15-Jul-21	11:20	< 0.5
Ethylbenzene [ug/L]	13-Jul-21	14:24	15-Jul-21	11:20	< 0.5
Dichloromethane [ug/L]	13-Jul-21	14:24	15-Jul-21	11:20	< 0.5
Methyl ethyl ketone [ug/L]	13-Jul-21	14:24	15-Jul-21	11:20	93
Toluene [ug/L]	13-Jul-21	14:24	15-Jul-21	11:20	30.6
Xylene (total) [ug/L]	13-Jul-21	14:24	15-Jul-21	11:20	< 0.5
o-xylene [ug/L]	13-Jul-21	14:24	15-Jul-21	11:20	< 0.5
m/p-xylene [ug/L]	13-Jul-21	14:24	15-Jul-21	11:20	< 0.5
Mercury (total) [ug/L]	09-Jul-21	14:45	12-Jul-21	16:20	0.09
Aluminum (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.277
Arsenic (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.0008
Barium (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.0405
Calcium (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	83.2
Cadmium (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.000069
Chromium (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.00148
Cobalt (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.000332
Copper (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.0655
Iron (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	4.62
Lead (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.00124
Magnesium (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	25.0
Manganese (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.118
Nickel (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.0035



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819

Project: PO#017018 LR Report: CA12340-JUL21

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Potassium (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	61.8
Selenium (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.00113
Silver (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.00007
Sodium (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	258
Phosphorus (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	16.9
Tin (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.00093
Zinc (total) [mg/L]	14-Jul-21	14:25	16-Jul-21	09:38	0.086

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

Sampler Name:						Sept	Station Acronym		Email:	Fax:		Address:							(1)
Name:						Sept	Station Number (Short Name)		17			2 - 1	F)		_	> 0		70	
						- Septage - I	Sample Lo		medney2@ocwa.com	(519) 797-3080	NOH 2LO	18 Caroline Street	Report to: Megan Edney	Requested Turnaround Time	denlification of Regul	Quole # Attached Parameter List	Org. #	Facility Name	Waterworks/Project#
DAN CAESAR						Septage - Holding Tank	Sample Location Name	Sample					ey	ound Time:	ation under which the		5620	Wiarton WWTP	1# 110000819
HSAR						13:30	Date & Time Collected		mednev2@ocwa.com	(519) 797-3080	NOH 2L0	18 Caroline Street	Data Transfer Contact: Megan Edney		Idenlification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment	No		VTP	Waterworks/Project # 110000819 C of C LIMS No:
				III		7	# of Bottles		a,com			N leet	ontact:		nt to Re	Yes			
Sampler Signature:					×	BOD ₅						Megan	App. Req	port Sa					
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						×	Total Phosphorous							37	Results				
						×	TKN							24-48 h	Unde				
						×	Total Ammonia Nitrogen		apwe	(519)	L9V 3K5	Shelb	Invoic	7	r Any			Labor	Cof
					×	Chemical Oxygen Demand		apwesthighlands@ocwa.com	(519) 925-0322	L9V 3K5	Shelburne, ON	Invoice To: Ontario Clean Wa		Regula		Date Rec'd:	Laboratory Section	C of C LIMS No:	
9						×	Acetone	Pa	ands@	322	338	ž m	Ontari		ation fo	7	Rec'd:	Section	N SI
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6						×	Ethylbenzene	Parameters	com					×	stewater	ature t		AUG I	_
Be						×	Isopropyl Alcohol						er Agency		er Trea		0 6 20	C	
10						×	Methyl Alcohol	1					ency	5-7d	atment	Receip		2021	2
						×	Methylene Chloride				1		П			Joon Receipt 20,	,		-
						×	Methyl Ethyl Ketone			Н						2,0			33
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						2 - 500 mL PET bottles, 1 - 60 mL plastic w subhuric acid preservaive, 2 - 40 mL EPA vials unpreserved (no headspace), 2 - 40 mL EPA vials wis adium bisulphale preservative (no headspace)		Comments	carne.greeniaw(@sqs.com	705-652-6365	K0L 2H0 705-652-2000	Lakefield, ON	Laboratory: SGS Lakefield Research Ltd	Other Specify:			Initials	Sample condition upon receipt	
	No Yes	Yes C	No C	Yes	Yes	No Yes	Upload to MO	E					rch Ltd				0		
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Page 1 of 1

* Station Acronym; Cell - Cell Contents, Dis - Disinfection, Down - Downstream, Eff - Final Etthent, PrBy - Primary Bypass, Raw - Raw Sewage, ScBy - Secondary Bypass, Up - Upstream, Well - Monitoring Well, Ast - Astation, Brs - Biosolids ria shudge, Bth - Biosolids thickening, Bpd - Biosolids primary digustron, Bad - Biosolids sec. digestion, Bpg - Biosolids primary Efficient, RAS - Return Activated Studge, SBR - Secondary Treatment/SBRs, ScEll - Secondary Efficient, Proceedings of the Studge of the S



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819

Project : PO#017018

17-August-2021

Date Rec.: 06 August 2021 LR Report: CA13306-AUG21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					04-Aug-21 13:30
Temperature Upon Receipt [°C]					20.0
Biochemical Oxygen Demand (BOD5) [mg/L]	06-Aug-21	13:48	11-Aug-21	15:34	1320
Total Suspended Solids [mg/L]	11-Aug-21	10:13	12-Aug-21	13:18	200
Chemical Oxygen Demand [mg/L]	12-Aug-21	10:58	12-Aug-21	14:39	2220
Ammonia+Ammonium (N) [as N mg/L]	10-Aug-21	20:58	12-Aug-21	16:59	120
Total Kjeldahl Nitrogen [as N mg/L]	09-Aug-21	14:21	10-Aug-21	15:20	170
Phosphorus (total) [mg/L]	09-Aug-21	14:21	13-Aug-21	14:49	14.0
Isopropyl Alcohol [mg/L]	12-Aug-21	12:08	13-Aug-21	15:20	< 5
Methyl alcohol [mg/L]	12-Aug-21	12:08	13-Aug-21	15:20	< 5
Acetone [ug/L]	13-Aug-21	08:48	17-Aug-21	13:53	71
Benzene [ug/L]	13-Aug-21	08:48	17-Aug-21	13:53	< 0.5
Ethylbenzene [ug/L]	13-Aug-21	08:48	17-Aug-21	13:53	< 0.5
Dichloromethane [ug/L]	13-Aug-21	08:48	17-Aug-21	13:53	< 0.5
Methyl ethyl ketone [ug/L]	13-Aug-21	08:48	17-Aug-21	13:53	89
Toluene [ug/L]	13-Aug-21	08:48	17-Aug-21	13:53	31.3
Xylene (total) [ug/L]	13-Aug-21	08:48	17-Aug-21	13:53	< 0.5
o-xylene [ug/L]	13-Aug-21	08:48	17-Aug-21	13:53	< 0.5
m/p-xylene [ug/L]	13-Aug-21	08:48	17-Aug-21	13:53	< 0.5

Carrie Greenlaw Project Specialist,

Environment, Health & Safety

Salidon Acropym Cell - Cell Contents, Dis. - Disolidesion, Down - Downstream, Elf - Final Effuent, PBy - Primary Bypass, Raw - Raw Sewage, ScBy - Secondary Bypass, Up - Upstream, Well - Monitoring Well, Aer - Aeration, Bry - Biosolides and subject the Biosolides in Sec. Biosolides in Sec. Biosolides in Sec. Biosolides are super, Selq - Biosolides shidge quality, Bod - Biosolides of quality, DAF - Dissolved Air Floatation, Crit - Primary Treatment/Ord, Pref. Primary Effuent, RAS - Return Activated Studge, SBR - Secondary Treatment/SBRs - Secondary Treatment/SBRs - Thickened Woste Activated Studge, WAS - Waste Activated Studge, Ind. - Industrial Wastewater, PSm - Pump Stn, Sept - Septage, Icht - Leachale, PTT - Primary Treatment, Rev - Reveralism, Tert - Tertiary Treatment, Afto - Actific, TeBy - Tetary Sypass, Hold. Ontario 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: Sampler Name: Email: Address: Sept elephone: Station Acronym Station Number (Short Name) Sept , Org. # mednev2@ocva.com (519) 797-3080 519-374-5782 NOH 2LO 18 Caroline Street Southampton, ON Report to: Megan Edney Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater Treatment Quote # Facility Name Attached Parameter List Requested Turnaround Time Sample Location Name Septage - Holding Tank 5620 Wiarton WWTP Sample CAESAR No 2021/09/20 Date & Time Collected 10:30 mednev2@ocvva.com Data Transfer Contact: Megan Edney (519) 797-3080 519-374-5782 Southampton, ON NOH 2LO 18 Caroline Street Yes 7 # of Bottles Sampler Signature: Req' × BOD₅ Total Suspended × Solids Total × Phosphorous 24-48 h × TKN L9V 3K5 (519) 925-1938 (519) 925-0322 apwesthighlands@oo Total Ammonia Invoice To: Ontario Clean Water Agency 136 Main St. E Shelburne, ON Dance × Laboratory Section Nitrogen Chemical Oxygen Date Rec'd: × Demand × Acetone Temperature Upon Receipt Parameters × Benzene alan SEP 2 1 × Ethylbenzene × R × Isopropyl Alcohol 5-7d × Methyl Alcohol Methylene × Chloride Methyl Ethyl × Ketone Methylene Time Rec'd: × Chloride 7-10d Sample condition upon receipt × Toluene carrie.greenlaw@sqs.com KOL 2HO 705-652-6365 705-652-2000 Laboratory: SGS Lakefield Research Ltd × Xylene akefield, ON 185 Concession St. c acid preservative,
2 - 40 mL EPA visis unpreserved
(no headspace),
2 - 40 mL EPA visis w/ sodium
bisulphate preservative (no 2 - 500 mL PET bottles, 1 - 60 mL plastic w/ sulphuric Other Comments Specify: Initials Yes Yes Yes Yes No Yes Z S C No Upload to MOE Page 1 of 1 Yes | No Yes Z Yes z Yes No C Z ÉS Upload to OCWA

A. SWL



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819

Project: PO#017018

06-October-2021

Date Rec.: 21 September 2021 LR Report: CA12853-SEP21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					20-Sep-21 10:30
Temperature Upon Receipt [°C]					15.0
Biochemical Oxygen Demand (BOD5) [mg/L]	22-Sep-21	18:05	27-Sep-21	15:49	2190
Total Suspended Solids [mg/L]	22-Sep-21	09:18	28-Sep-21	12:11	306
Chemical Oxygen Demand [mg/L]	24-Sep-21	08:20	27-Sep-21	15:49	2850
Ammonia+Ammonium (N) [as N mg/L]	22-Sep-21	17:22	23-Sep-21	15:34	59.7
Total Kjeldahl Nitrogen [as N mg/L]	22-Sep-21	08:01	24-Sep-21	11:52	110
Phosphorus (total) [mg/L]	22-Sep-21	08:01	23-Sep-21	17:16	11.5
Isopropyl Alcohol [mg/L]	05-Oct-21	11:02	06-Oct-21	12:33	< 5
Methyl alcohol [mg/L]	05-Oct-21	11:02	06-Oct-21	12:33	< 5
Acetone [ug/L]	27-Sep-21	16:34	29-Sep-21	11:36	< 1200
Benzene [ug/L]	27-Sep-21	16:34	29-Sep-21	11:36	< 20
Ethylbenzene [ug/L]	27-Sep-21	16:34	29-Sep-21	11:36	< 20
Dichloromethane [ug/L]	27-Sep-21	16:34	29-Sep-21	11:36	< 20
Methyl ethyl ketone [ug/L]	27-Sep-21	16:34	29-Sep-21	11:36	< 800
Toluene [ug/L]	27-Sep-21	16:34	29-Sep-21	11:36	57.9
Xylene (total) [ug/L]	27-Sep-21	16:34	29-Sep-21	11:36	< 20
o-xylene [ug/L]	27-Sep-21	16:34	29-Sep-21	11:36	< 20
m/p-xylene [ug/L]	27-Sep-21	16:34	29-Sep-21	11:36	< 20

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

Sampler Name:						Sept	Station Acronym		Email:	Fax:	Address:							()	
Name:		I				Sept	Station Number (Short Name)			ā									
									mec	(519)	Sou Sou	Rep		Iden	Alta	Org	Fac	Wa	
B. Madin						Seplage - Holding Tank	Sample Location Name	Sample	medney2@ocwa.com	(519) 797-3080	18 Caroline Street Southampton, ON NOH 2LO NOH 2CO	Report to: Megan Edney	Requested Turnaround Time:	Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewater	Quote # Altached Parameter List	Org. # 5525	Facility Name Wiarton WWTP	Waterworks/Project # 110000819 C of C LIMS No:	
Link						300	Date & Time Collected OCT 1 8 2021		medney2@ocwa.com	(519) 797-3080	18 Caroline Street Southampton, ON NOH 2L0	Data Transfer Conlact: Megan Edney		he sample(s) fall: No Requiremen	No I		MIN	0819	
1 1						7	# of Bottles		.com		2 0	onlact:		I to Re	Yes	1			
Samp						×	BOD ₅					Megar	App.	port S					
Sampler Signalure:						×	Total Suspended Solids					n Edne		ample		1			
nalure						×	Total Phosphorous					Y		Result					
						×	TKN						24-48 h	s Unde					
						×	Total Ammonia Nitrogen		apwe	(519)	Shelburn L9V 3K5	Invoic	3	er Any			Labo	Cof	
						×	Chemical Oxygen Demand		apwesthighlands@ocwa.com	(519) 925-0322	Shelburne, ON L9V 3K5	Invoice To: Onlario Clean Water		Regula		Date	Laboratory Section	C of C LIMS No:	
						×	Acetone		ands@	322	N m	Onlar		ation fo	4	Rec'd:	Section	NSN	
						×	Benzene	Param	Parameters	осма			io Clea		or Was	Temperature Upon Receipt	5	atory Section OCT 1 0	9
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WI						×	Methyl Alcohol			1		Agency	5-7d	Treatment	Receip	1	3	7	
$V \setminus I$						×	Methylene Chloride			H				-	-	1			
						×	Methyl Ethyl Ketone					N			-			3	
1						×	Methylene Chloride					П	Ш		70	Ime		4	
						×	Toluene						7-10d			Time Rec'd:	Sam	CH	
						×	Xylene		carr	705	KOL Lake	Labe	م		c°	1	ple co		
						2 - 500 mL PET bottles, 1 - 50 mL plastic w/ sulphuric acid preservative, 2 - 40 mL EPA vials unpreserved (no headspace), 2 - 40 mL EPA vials w/ sodium bisulphate preservative (no headspace)		Comments	carrie.greenlaw@scs.com	705-652-6365	185 Concession St. Lakefield, ON KDL 2H0 TOS 650 2000	Laboratory: SGS Lakefield Research Ltd	Other Specify:			nitals	Sample condition upon receipt		
	8 ×	N Yes	N KK	Z Yes	No C	No. X	Upload to MOE	111				ch Lid				7	3		
	Nas O	S es □	~ ~ ~	z ź	S és	 ∑ □⊠	Upload to OCW	/A											

*Station Actorym: Cell - Cell Contents, Dis - Disinfection, Down - Cewnstream, Eff - Final Effluent, PiBy - Primary Bypass, Raw - Raw Sewage, ScBy - Secondary Bypass, Up - Upstream, Well - Monitoring Well, Aer - Aeration, Bis - Biosolids raw shidge, Elh - Biosolids sec super, Bis - Biosolid

2.4500



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819
Project: PO#017018

27-October-2021

Date Rec.: 19 October 2021 LR Report: CA12775-OCT21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					18-Oct-21 13:00
Temperature Upon Receipt [°C]					8.0
Biochemical Oxygen Demand (BOD5) [mg/L]	19-Oct-21	15:57	25-Oct-21	14:45	1620
Total Suspended Solids [mg/L]	21-Oct-21	14:12	22-Oct-21	14:24	268
Chemical Oxygen Demand [mg/L]	26-Oct-21	08:57	26-Oct-21	12:16	2920
Ammonia+Ammonium (N) [as N mg/L]	20-Oct-21	16:41	22-Oct-21	12:35	58.1
Total Kjeldahl Nitrogen [as N mg/L]	20-Oct-21	06:38	21-Oct-21	11:54	105
Phosphorus (total) [mg/L]	20-Oct-21	06:38	21-Oct-21	13:55	10.7
Isopropyl Alcohol [mg/L]	19-Oct-21	14:24	22-Oct-21	10:57	< 5
Methyl alcohol [mg/L]	19-Oct-21	14:24	22-Oct-21	10:57	< 5
Acetone [ug/L]	21-Oct-21	17:09	26-Oct-21	15:48	< 1200
Benzene [ug/L]	21-Oct-21	17:09	26-Oct-21	15:48	< 20
Ethylbenzene [ug/L]	21-Oct-21	17:09	26-Oct-21	15:48	< 20
Dichloromethane [ug/L]	21-Oct-21	17:09	26-Oct-21	15:48	< 20
Methyl ethyl ketone [ug/L]	21-Oct-21	17:09	26-Oct-21	15:48	< 800
Toluene [ug/L]	21-Oct-21	17:09	26-Oct-21	15:48	68.1
Xylene (total) [ug/L]	21-Oct-21	17:09	26-Oct-21	15:48	< 20
o-xylene [ug/L]	21-Oct-21	17:09	26-Oct-21	15:48	< 20
m/p-xylene [ug/L]	21-Oct-21	17:09	26-Oct-21	15:48	< 20

Carrie Greenlaw Project Specialist,

Environment, Health & Safety

Outside Class Water Append. Benuest for Laboratory Services and CHAIN OF CUSTODY - SEWAGE (QUARTERLY SEPTAGE)

Pacific Name Warton WVTP Country Section Country	Temperature Upon Receipt Obata Transfer Compete Compe	(3	Waterworks/Project # 110000819	819								COI CLIMS NO.	1	2	;	1)							
Accounted to the production of Page 1 Surple Reads Under Any Regulation to Regard Surple Surple Reads Under Any Regulation to Regard Surple Reads Under Any Regulation to Regard Surple Reads Under Any Regulation to Regard Surple Reads Under Any Regulation to Re	Comparison of Transcription and Warring Note)	الت و	acility Name Wiarton WW	πР								Labor	atory ate Re	Sectio 3c'd:	nCT	-	1 20	77			Time	Samp Rec'd:	ole con		J	K
The particular of Regulation under Which the sample (s) like the Peace terrate App. 24-48 h 1	Requested furnishment of Requirement to Report Sample Reading United Multiplination and Three: Requested furnishment of Regulation under which the sample(s) fat five Regulation for the Multiplination of Regulation for the Multiplination for the Mu) ŏ ₹	Parameter List		,68									Temp	peratur	e Upo	n Rece	ipt		10	5		ပ္စ			
Reginated Turnscurd Time: App. 24-48	Requested Terratourd Trince: Apr. 24-48 h 1 1 1 1 1 1 1 1 1		2	entification of Regulation under which the	sample(s) fall: No Requirement t	to Repo	nt San	iple Re	sults L	Inder A	uny Re	gulation	n for W	Vastew	rater T	reatme	aut										
Standard Control to Magnet Group Control	Septiment Sept			Requested Turnaround Time:					App			24-48	E				×	ý	74	Ш			7-100				1
Septiment Sept	Sample Location Sample Location Sample Location Loca			and to Manan Ednay	Data Transfer Co	ntact: A	legan	Edney					Invoice	a To:	Ontario	Clear	Wate	er Age	nay					Labor	ratory: SGS Lakefield Research	th Ltd	
Seption Septing Sept	1519 787 2000 1519 787 200	Address:	Z ⊗ Z	epon to megan consy 3 Caroline Street outhampton, ON	18 Caroline Stree Southampton, ON NOH 2L0	11 Z							136 M Shelbu	ain St. Jrne, C K5	W Z									185 C Lakef KOL 2	Soncession St. field, ON 2H0		
Sample Location Name Sample Lo	Sample Location Name	Telephone:	51	9-374-5782	519-374-5782								(519)	925-19	338			1		1				705-6	552-2000 552-6365		
Sample Location Name Collected Time Control of Bottless Time Control of Bottless Time Control of Bottless Collected Managements Sample Location Name Collected Managements Sample Location Name Collected Management Name Collected Name Coll	Semple Location Name Collected Coll	-ax:	2 E	119) 797-3080 ednev2@ocwa.com	(519) 797-3080 medney2@ocwa.	moo							apwes	thighla	ands@	ocwa.	mod	П		H	П		П	carrie	a.greenlaw@sgs.com		
Septi Coolected Name Collected Name Name Name Name Name Name Name Name	Sample Location Name Ocilected Collected			1		-								T.	aram	eters		H							Comments		A
Septi - Septage - Holding Tank Interest bottle residence of with Activity and the septiment of the september of with Activity and the septiment of the september of with Activity and the september of the s	1- 250 mL metals bottle vs- 1- 2		ation mber hort ime)	Sample Location Name	Date & Time / Collected						Chromium	Sobalt	Copper	lron	read	muisəngsM					and the second	muiboS	niT	Sinc		Upload to MOB	WDO of beoldU
Septide - Holding lank 1- glass bottle - Septide - Holding lank 1 - glass bottle - Septide - Holding lank	Sepiage - Holding lank 1 - Sepiage - Holding lank 1 - Glass bottle 1 - Glass bott	-		9	ć	_	-	-	-	-	>	>	>	>	×			-	-		-	-	×	×		S S	Yes
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Yes	Yes No No No No No No No N										-															No	Yes
	Yes No Constants: Sampler Storature: Storature: No Constants: No Constan																				-					No des	No Yes
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inninni	Ves Complet Stonature:								-																	Yes	Sa × es
	Ves																									No	No No
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Revised: 2017.12.01 * Station Accorptin: Cell Contents, Dis - Disinfection, Down - Downstream, Eff - Final Effluent, Prigy - Primary Bipasss, Raw - Raw Sewage, ScBy - Secondary Bipasss, Up - Upstream, Well - Monitoring Well, Aer - Aeration, Brs - Biosolids sec super Bisselds set super Bisselds subgig quality, Bsqq - Biosolids sec super, Bss - Biosolids subgig subgig, Loth - Leachate, Primary Treatment, ReAr - Re-seration, Tert - Tertiary Treatment, Allo - Actiflo, Tellary Bipass, Hold - Hording Tank, CSO - Combined Sewer Overflow, Sos O - Saniary Sewer Overflow, Revision #1

9:4566

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P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

26-October-2021

Works #: 110000819

Project: PO#017018

Date Rec.: 19 October 2021 LR Report: CA12763-OCT21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					18-Oct-21 13:00
Temperature Upon Receipt [°C]					8.0
Aluminum (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.237
Arsenic (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.0010
Barium (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.08330
Cadmium (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.000092
Calcium (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	146
Chromium (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.00139
Cobalt (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.000434
Copper (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.0596
Iron (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	5.65
Lead (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.00111
Magnesium (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	35.8
Manganese (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.218
Mercury (total) [mg/L]	21-Oct-21	07:30	25-Oct-21	10:50	< 0.00001
Nickel (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.0047
Potassium (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	51.4
Selenium (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.00069
Silver (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.00006
Sodium (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	308
Tin (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.00069
Zinc (total) [mg/L]	22-Oct-21	10:30	25-Oct-21	16:31	0.102



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

Works #: 110000819

Project: PO#017018 LR Report: CA12763-OCT21

aine Treedan

Carrie Greenlaw Project Specialist,

Environment, Health & Safety

Sampler Name:						Sept	Station Acronym		Email:	Fax:	Address						(
Vame:						Sept	Station Number (Short Name)			, co							
		- 1				v			medr	(519)	18 Caroli Southam NOH 2L0	Repo	7.1	Ident	Attached	Org. #	VVOI
DAN						Septage - Holding Tank	Sample Location Name	Sample	medney2@ocva.com	(519) 797-3080	18 Caroline Street Southampton, ON NOH 2LO	Report to: Megan Edney	Requested Turnaround Time:	dentification of Regulation under which the sample(s) falt. No Requirement to Report Sample Results Under Any Regulation for Wastewater	Ouote # Allached Parameter List	Org. # 5620	I Danie
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H														he sam	No	7	100000
PESIN						On	Date Co NOV		V					ple(s) f			1
P						09.00	Date & Time Collected NOV 1 0 2021		medi	(519)	18 Caroli Southam NOH 2L0	Data		all: No S	П		1
						V	ne 1 2021		nev2@c	(519) 797-3080	18 Caroline Street Southampton, ON NOH 2L0	Transf		Require	Ш		
						7	# of Bottles	1	mednev2@ocwa.com	080	Street in, ON	Data Transfer Contact: Megan Edney		ment to	Yes		
San		-				*	BODs	H	III			ct: Meg	App. Req	Report			
Sampler Signature						×	Total Suspended					jan Ed	ď, 'n	Samp			
gnatur						×	Solids Total Phosphorous					ney		le Resu			
10				11		×	TKN		1				24-48 h	ilts Unc			1
						×	Total Ammonia Nitrogen		apwe	(519)	136 Main Shelburn L9V 3K5	invoi	8 7	ter Any		Labo	1
20	:= -	-				×	Chemical Oxygen Demand		apwesthighlands@ocwa.com	(519) 925-1938 (519) 925-0322	136 Main St. E Shelburne, ON L9V 3K5	Invoice To: Ontario Clean Water		Regul		Laboratory Section Date Rec'd:	
3				<u> </u>		×	Acetone		ands@	938	N m	Ontari		ation fo	-	atory Section Date Rec'd:	
1						×	Benzene	Parameters	DCWa			o Clea		or Was	empen		1
0						×	Ethylbenzene	neters	COLLI			n Wate	×	tewate	Temperature Upon Receipt	NOV 1	
10					-	×	Isopropyl Alcohol					r Agency		100	gon R	_	1
2						×	Methyl Alcohol					V3	5-7d	Treatment	eceipt	2021	3
2						×	Methylene Chloride		М								4
elder						×	Methyl Ethyl Ketone								2		
1		-				×	Methylene Chloride			1			-1		(0)	Samp Time Rec'd;	-
		4	_			×	Toluene		10	7	X F -		7-10d		1	Sample lec'd:	17
		-				× 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Xylene		arrie,g	705-652-2000	185 Concession Lakefield, ON KDL 2H0	aborat			റ്	condi	1
						2 - 500 mL PET bottles, 1 - 50 mL plastic w/ sulphun acid preservative, 2 - 40 mL EPA virils unpres (no heedspace), 2 - 40 mL EPA virils w/ sod bisulphate preservative (no heedspace)	- t		carrie,greenlaw@sqs.com	705-652-2000	185 Concession St. Lakefield, ON KDL 2H0	ory: SC	Other			Sample condition upon receipt Rec'd:	1
						PET bot blastic w/ valive, valive, EPA vials EPA vials preserva	W 1	Comments	@sgs.		n St.	SLake	S			on rece	
						2 - 500 mL PET bottles, 1 - 80 mL plastic w/ sulphuric acid preservative, 2 - 40 mL EPA vials unpreserved (no headspace). 2 - 40 mL EPA vials w/ sodium bisulphate preservative (no headspace)		ents	com			Laboratory: SGS Lakefield Research Ltd	Specify:			ipt	
Sampler Name: DAM CAESIAR Sampler Signature: Sall Ecologies	Z C Z	Yes No	Yes	No Yes	No.	No X	Upload to MOE					arch Ltd				als T	
			- married														

607833994907 MP



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

26-November-2021

Works #: 110000819

Project: PO#017018

Date Rec.: 11 November 2021 LR Report: CA12479-NOV21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					10-Nov-21 09:00
Temperature Upon Receipt [°C]					5.0
Biochemical Oxygen Demand (BOD5) [mg/L]	12-Nov-21	13:34	17-Nov-21	13:03	842
Total Suspended Solids [mg/L]	15-Nov-21	19:30	16-Nov-21	16:17	227
Chemical Oxygen Demand [mg/L]	12-Nov-21	11:11	17-Nov-21	13:03	2000
Ammonia+Ammonium (N) [as N mg/L]	12-Nov-21	22:05	15-Nov-21	10:04	45.3
Total Kjeldahl Nitrogen [as N mg/L]	15-Nov-21	08:59	17-Nov-21	11:12	60.7
Phosphorus (total) [mg/L]	15-Nov-21	08:59	17-Nov-21	10:08	4.4
Isopropyl Alcohol [mg/L]	16-Nov-21	08:03	18-Nov-21	15:12	< 5
Methyl alcohol [mg/L]	16-Nov-21	08:03	18-Nov-21	15:12	< 5
Acetone [ug/L]	24-Nov-21	17:01	25-Nov-21	17:46	< 1200
Benzene [ug/L]	24-Nov-21	17:01	25-Nov-21	17:46	< 20
Ethylbenzene [ug/L]	24-Nov-21	17:01	25-Nov-21	17:46	< 20
Dichloromethane [ug/L]	24-Nov-21	17:01	25-Nov-21	17:46	< 20
Methyl ethyl ketone [ug/L]	24-Nov-21	17:01	25-Nov-21	17:46	< 800
Toluene [ug/L]	24-Nov-21	17:01	25-Nov-21	17:46	222
Xylene (total) [ug/L]	24-Nov-21	17:01	25-Nov-21	17:46	< 20
o-xylene [ug/L]	24-Nov-21	17:01	25-Nov-21	17:46	< 20
m/p-xylene [ug/L]	24-Nov-21	17:01	25-Nov-21	17:46	< 20

Carrie Greenlaw Project Specialist,

Environment, Health & Safety

regulation.

						Sept	Station Acronym		Email:	Fax:	Address:						()	Intario Cle
						Sept -	Station Number (Short Name)		131			R		Ide	AII OI	O F	8	an Water
		count in due in	Company of	Rec 0 2 pets		Septage - Holding Tank	Sample Location Name	Sample	mednay2@20wa.com	(519) 797-3080	18 Caroline Street Southampton, ON NDH 2L0	Report to: Megan Edney	Requested Turnaround Time;	Identification of Regulation under which the sample(s) fall: No Requirement to Report Sample Results Under Any Regulation for Wastewaler	Ouote # Allached Parameter List No	Facility Name Wiarton WWTP Org. # 5620	Waterworks/Project # 110000819	Ontario Clean Water Agency - Request for Laboratory Services and CHAIN OF CUSTODY - SEVIAGE (MONTHLY - SEPTAGE - PAGE 1 of 1)
		TO CHININA	2	SECTIVE COSTER		5	Date & Time Collected DEC 2 1 2021		mednev2@ocwa.com	(519) 797-3080	Southampton, ON NOH 2L0	Dala Transfer Contact: Megan Edney		sample(s) fall: No Requirement		I.b	319	ces and CHAIN OF CUSTODY
		Į.	6	-		4	# of Bottles		com		2.5	ntact: N		to Rep	Yes			- SEW
		5	× .			×	BOD,					Negan I	App. Req	ort Sar				AGE (
		1				× (-)	Total Suspended Solids Total					Edney		nple Re				MONT
-	-	2	-			× (*)	Phosphorous						24	sults U				HLY-S
-	-	-	7			Y X	TKN Total Ammonia	1	apy	(51	C51	lnv	24-48 h	nder A		Lat	0	EPTAC
	+	É	7			×	Chemical Oxygen		apwesthighlands@ocwa.com	(519) 925-0322	Shelburne, ON L9V 3K5 (519) 925-1938	Invoice To: Ontario Clean Water		ny Regi	1	Laboratory Section Date Rec'd:	C of C LIMS No:	E - P/
	+	7				×	Demand Acetone		nlands	0322	1938	Onta		ulation		atory Section Date Rec'd:	NS N	GE 1
	1	7				×	Benzene	Para	Фосма			rio Cle		for Wa	Temperature Up	no	0:	0(1)
	T	t		V 111		×	Ethylbenzene	Parameters	.com			an Wal	×	stewate	ature	R	E)
				- 7		×	Isopropyl Alcohol					er Agency			Jpan R	2	0	
						×	Methyl Alcohol					ncy	5-7d	Trealment	on Receipt	2 2021		
						×	Methylene Chloride								X	123	12	
						×	Methyl Ethyl Ketone			Ш					X		14	
						×	Methylene Chloride								1	Samp Time Rec'd:	Ö	
						×	Toluene						7-10d		1	Samp Rec'd:		
						×	Xylene		Carrie	705-6	Lakefield KOL 2HO 705-652-	Labor 185 C			cô	le con		
						2-500 mL PET bottles, 1-60 mL plastic w/ sulphoric acid priservative, 2-40 mL EPA vials unpreserved (no headspace), 2-40 mL EPA vials w/ sodium bisulphate preservative (no headspace)		Comments	carrie.dreaniaw@sus.com	705-652-6365	Lakefield, ON KOL 2H0 705-652-2000	Laboratory: SGS Lakefield Research Ltd 185 Concession St.	Other Specify:			Sample condition upon receipt Initials		
8 8	3 0	Yes	No Yes	No Yes	No Yes	No X	Upload to MO	E				ch Lld				N		Page I of
No	3 3	Yes	No YES	7 C	Yes	¥65\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Upload to OCV	VA								11	1	0

Slation Acronym Cell - Cell Contents, Dis - Disinlection, Down - Downstream, Ell - Final Ethicant, PrBy - Primary Expass, Raw - Raw Sewage, ScBy - Secondary Bypass, Ltp - Upstream, Vell - Monitoring Well, Aer - Azrakon, Bis - Blosolids yet seeds thickening, Bpd - Blosolids primary expass, Raw - Raw Sewage, ScBy - Secondary States, Vell - Monitoring Well, Aer - Azrakon, Bis - Blosolids yet seeds thickening, Bpd - Blosolids yet generally, Bpd - Blosolids yet ge

Revision #1

Revised: 2017,12,01

BQ 10am RTN



P.O. Box 4300 - 185 Concession St. Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

31-December-2021

Works #: 110000819

Project: PO#017018

Date Rec.: 22 December 2021 LR Report: CA12730-DEC21

Copy: #1

OCWA-Grey Bruce (Wiarton WPCP)

Attn: Karla Young

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

Phone: 519-797-2561

Fax:pdf

CERTIFICATE OF ANALYSIS Final Report

Analysis	1: Analysis Start Date	2: Analysis Start Time	3: Analysis Completed Date	4: Analysis Completed Time	5: Sept Sept-Septage-Hol ding Tank
Sample Date & Time					21-Dec-21 11:40
Temperature Upon Receipt [°C]					8.0
Biochemical Oxygen Demand (BOD5) [mg/L]	23-Dec-21	17:14	29-Dec-21	13:19	912
Total Suspended Solids [mg/L]	23-Dec-21	12:57	24-Dec-21	09:40	332
Chemical Oxygen Demand [mg/L]	23-Dec-21	09:45	29-Dec-21	13:19	1480
Ammonia+Ammonium (N) [as N mg/L]	22-Dec-21	21:31	23-Dec-21	08:47	9.0
Total Kjeldahl Nitrogen [as N mg/L]	23-Dec-21	06:51	24-Dec-21	11:00	42.0
Phosphorus (total) [mg/L]	23-Dec-21	06:51	30-Dec-21	14:39	8.0
Isopropyl Alcohol [mg/L]	29-Dec-21	12:02	30-Dec-21	13:03	< 5
Methyl alcohol [mg/L]	29-Dec-21	12:02	30-Dec-21	13:03	< 5
Acetone [ug/L]	23-Dec-21	14:16	30-Dec-21	12:38	< 1200
Benzene [ug/L]	23-Dec-21	14:16	30-Dec-21	12:38	< 20
Ethylbenzene [ug/L]	23-Dec-21	14:16	30-Dec-21	12:38	< 20
Dichloromethane [ug/L]	23-Dec-21	14:16	30-Dec-21	12:38	< 20
Methyl ethyl ketone [ug/L]	23-Dec-21	14:16	30-Dec-21	12:38	< 800
Toluene [ug/L]	23-Dec-21	14:16	30-Dec-21	12:38	24.7
Xylene (total) [ug/L]	23-Dec-21	14:16	30-Dec-21	12:38	< 20
o-xylene [ug/L]	23-Dec-21	14:16	30-Dec-21	12:38	< 20
m/p-xylene [ug/L]	23-Dec-21	14:16	30-Dec-21	12:38	< 20

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