



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

**WIARTON**  
**WASTEWATER TREATMENT PLANT**

**ANNUAL PERFORMANCE REPORT**

**For the period of**  
**JANUARY 1, 2017 TO DECEMBER 31, 2017**

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

## 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 filter backwash pumping station.

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

The plant discharge utilizes the pipe located on Mary Street to Isaac Street (original) as well as the original abandoned forcemain 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

<b>Facility Name</b>	Warton Wastewater Treatment Plant
<b>Facility Type</b>	MBBR 3-cell, Aerated Lagoon3-cell, Sand Filtration, UV disinfection with pumping stations (3)
<b>Plant Classification</b>	II
<b>Works Number</b>	20002681
<b>Recommended Rated Capacity</b>	2,500 m <sup>3</sup> /day 4,400 m <sup>3</sup> /day (under ECA 6045-ARDJS7, issued November 23, 2017)
<b>Number of Households</b>	1,100
<b>Receiving Water</b>	Colpoy's Bay (Georgian Bay)
<b>Environmental Compliance Approval Certificate of Approval</b>	ECA 6375-A2PKKS (January 1, 2017 to February 23, 2017) ECA 6211-AGEU4W (February 24, 2017 to November 22, 2017) ECA 6045-ARDJS7 (November 23, 2017 to December 31, 2017)
	3-0709-82-006 (Air)

**Table 2.** Monitoring Program for Warton WWTP

Source	Parameter	Frequency	Method
Influent	Flow (m <sup>3</sup> )	Daily	Flow Meter
	BOD <sub>5</sub> , TSS, TP, TKN	Monthly	External Analysis
Effluent	Flow (m <sup>3</sup> )	Daily	Flow Meter
	CBOD <sub>5</sub> , TSS, Total Ammonia (TAN) ) Nitrogen, Total Phosphorus	Bi-Weekly	External Analysis
	E. Coli	Bi-Weekly	External Analysis
	pH, Temperature	Bi-Weekly	In-House & External Analysis
	Temperature	Bi-Weekly	In-House & External Analysis
Septage	Flow (m <sup>3</sup> )	Daily	Flow Meter
	BOD <sub>5</sub> , 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
	BOD, TSS, Alkalinity, Total Phosphorous	Bi-Weekly	External Analysis

## 2. Monitoring Data

ECA 6375-A2PKKS requires:

(a) a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Condition 7, including an overview of the success and adequacy of the Works;

ECA 6211-AGEU4W requires:

(a) a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Condition 7, including an overview of the success and adequacy of the Works;

ECA 6045-ARDJS7 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, Table 4 and Table 5. The sampling frequencies either meet or exceed the requirements set out in ECA 6375-A2PKKS, ECA 6211-AGEU4W and ECA 6045-ARDJS7.

**Table 3.** Raw Sewage Monitoring – Sampling Frequencies as Required (by ECA 6375-A2PKKS, ECA 6211-AGEU4W and ECA 6045-ARDJS7)

Parameter	Sample Type	Frequency
BOD <sub>5</sub>	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	Frequency	ECA 6375-A2PKKS	ECA 6211-AGEU4W	ECA 6045-ARDJS7
CBOD <sub>5</sub>	Bi-weekly	24-hour Composite	24-hour Composite	8-hr Composite
Total Suspended Solids	Bi-weekly	24-hour Composite	24-hour Composite	8-hr Composite
Total Phosphorous	Bi-weekly	24-hour Composite	24-hour Composite	8-hr Composite
Total Ammonia Nitrogen (TAN)	Bi-weekly	24-hour Composite	24-hour Composite	8-hr Composite
E. Coli	Bi-weekly	Grab	Grab	Grab
pH	Bi-weekly	Grab	Grab	Grab
Temperature	Bi-weekly	Grab	Grab	Grab

**Table 5. Imported Sewage Monitoring – Sampling Frequencies as Required by Schedule D of ECA 6045-ARDJS7**

Parameters	Sample Type	ECA 6045-ARDJS7
BOD <sub>5</sub>	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, Methyl ethyl, ketone, Toluene, Xylene	Grab	Monthly
Metals: Aluminum, Arsenic, Barium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Tin, Zinc	Grab	Quarterly

## 2.2 Effluent Limits

The effluent limits that are to be met as per ECA 6375-A2PKKS, ECA 6211-AGEU4W, and ECA 6045-ARDJS7 for the Warton Sewage Treatment Lagoon are found in Table 6.

**Table 6. Effluent Limits as per ECA 6375-A2PKKS, ECA 6211-AGEU4W, and ECA 6045-ARDJS7.**

Effluent Parameter	ECA 6375-A2PKKS (Section 7)		ECA 6211-AGEU4W (Section 8)		ECA 6045-ARDJS7 (Schedule C)	
	Monthly Average Concentration (mg/L)	Monthly Average Waste Loading (kg/day)	Monthly Average Concentration (mg/L)	Monthly Average Waste Loading (kg/day)	Monthly Average Concentration (mg/L) *	Monthly Average Waste Loading (kg/day)
CBOD <sub>5</sub>	20	50	20	50	15	66
Total Suspended Solids	24	60	24	60	15	66
Total Phosphorous as P	0.5	1.25	0.5	1.25	0.3	1.32
Total Ammonia Nitrogen (May 1 to October 31)	n/a	n/a	n/a	n/a	3	13.2
Total Ammonia Nitrogen (November 1 to April 30)	n/a	n/a	n/a	n/a	6	26.4
pH	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 housed in OCWAs data management system (WISKI7). Annual and monthly averages for flows, CBOD, BOD<sub>5</sub>, 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.** 2017 Effluent Annual Average Concentrations and Removal Efficiencies

Parameter	Annual Average Concentration	Removal Efficiency
CBOD <sub>5</sub>	3.708	98.6%
Total Suspended Solids	5.028	98.6%
Total Phosphorous	0.084	97.9%

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 Warton Wastewater Treatment System Monitoring Data to Effluent Limits, 2017

2017	CBOD <sub>5</sub>				Total Suspended Solids				Total Phosphorous				Total Ammonia Nitrogen (TAN)				E. Coli	
	Monthly Average (mg/L)	Within Limits (Jan 1, 2017 to Nov 22, 2017 20 mg/L & Nov 23, 2017 to Dec 31, 2017 15 mg/L)	Monthly Average Loading (kg/d)	Within Limits (Jan 1, 2017 to Nov 22, 2017 50 kg/day & Nov 23, 2017 to Dec 31, 2017 66 kg/day)	Monthly Average (mg/L)	Within Limits (Jan 1, 2017 to Nov 22, 2017 24 mg/L & Nov 23, 2017 to Dec 31, 2017 15 mg/L)	Monthly Average Loading (kg/d)	Within Limits (Jan 1, 2017 to Nov 22, 2017 60 kg/day & Nov 23, 2017 to Dec 31, 2017 66 kg/day)	Monthly Average (mg/L)	Within Limits (Jan 1, 2017 to Nov 22, 2017 0.5 mg/L & Nov 23, 2017 to Dec 31, 2017 0.3 mg/L)	Monthly Average Loading (kg/d)	Within Limits (Jan 1, 2017 to Nov 22, 2017 1.25 kg/day & Nov 23, 2017 to Dec 31, 2017 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	3.7	Y	9.764	Y	4.7	Y	12.427	Y	0.12	Y	0.328	Y	0.47	n/a	1.243	n/a	2.0	Y
February	2.7	Y	5.326	Y	4.3	Y	8.655	Y	0.09	Y	0.173	Y	0.20	n/a	0.399	n/a	2.0	Y
March	7.0	Y	19.379	Y	8.3	Y	23.070	Y	0.07	Y	0.203	Y	0.10	n/a	0.277	n/a	2.0	Y
April	9.0	Y	23.513	Y	15.5	Y	40.495	Y	0.08	Y	0.196	Y	0.20	n/a	0.523	n/a	2.0	Y
May	5.5	Y	9.773	Y	7.0	Y	12.438	Y	0.10	Y	0.169	Y	0.20	n/a	0.355	n/a	2.0	Y
June	2.0	Y	2.563	Y	3.0	Y	3.845	Y	0.09	Y	0.109	Y	0.10	n/a	0.128	n/a	2.0	Y
July	2.7	Y	4.293	Y	3.0	Y	4.829	Y	0.06	Y	0.097	Y	1.97	n/a	3.166	n/a	3.4	Y
August	2.0	Y	1.853	Y	3.0	Y	2.780	Y	0.07	Y	0.060	Y	0.80	n/a	0.741	n/a	60.7	Y
September	2.0	Y	1.288	Y	3.0	Y	1.931	Y	0.12	Y	0.074	Y	0.10	n/a	0.064	n/a	2.0	Y
October	2.0	Y	2.942	Y	2.0	Y	2.942	Y	0.08	Y	0.118	Y	0.10	n/a	0.147	n/a	2.0	Y
November	2.0*	Y	4.335	Y	2.0*	Y	4.335	Y	0.08*	Y	0.184	Y	0.43*	Y	1.084	Y	1.4	Y
December	3.8*	Y	8.911	Y	4.3*	Y	10.025	Y	0.06*	Y	0.134	Y	0.24*	Y	0.446	Y	2.0	Y

\*"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 were no reportable instances where the sewage lagoon system exceeded the effluent limits set out in the ECA.

Another measure of effluent quality is pH, as per ECA 6375-A2PKKS, ECA 6211-AGEU4W, and ECA 6045-ARDJS7 the effluent pH is to remain within the range of 6.0 and 9.5 at all times. In 2017, the effluent was within the effluent limits and ranged from 6.89 to 9.20 with an annual average of 7.89. A monthly summary of pH can be found in Table 9

**Table 9.** Monthly Summary of pH for the Warton Wastewater Treatment System, 2017

	<b>Average</b>	<b>Minimum</b>	<b>Maximum</b>
<b>January</b>	7.83	7.50	8.56
<b>February</b>	8.10	7.98	8.17
<b>March</b>	8.67	8.37	8.88
<b>April</b>	8.52	7.47	8.97
<b>May</b>	7.95	7.52	8.82
<b>June</b>	8.03	7.70	8.56
<b>July</b>	7.71	7.66	7.76
<b>August</b>	7.99	7.85	8.13
<b>September</b>	8.63	8.08	9.20
<b>October</b>	7.16	6.91	7.93
<b>November</b>	7.20	6.89	7.41
<b>December</b>	7.12	7.00	7.27

## 2.4 Effluent Objectives

The effluent objectives as per ECA 6375-A2PKKS, ECA 6211-AGEU4W, and ECA 6045-ARDJS7 for the Wiarton Wastewater Treatment Lagoon are found in Table 10.

**Table 10.** Effluent Objectives as per ECA 6375-A2PKKS, ECA 6211-AGEU4W, and ECA 6045-ARDJS7.

Effluent Parameter	ECA 6375-A2PKKS (Section 6)		ECA 6211-AGEU4W (Section 7)		ECA 6045-ARDJS7 (Schedule B)	
	Monthly Average Concentration (mg/L)	Monthly Average Waste Loading (kg/day)	Monthly Average Concentration (mg/L)	Monthly Average Waste Loading (kg/day)	Monthly Average Concentration (mg/L) *	Monthly Average Waste Loading (kg/day)
CBOD <sub>5</sub>	15	37.5	15	37.5	10	n/a
Total Suspended Solids	15	37.5	15	37.5	10	n/a
Total Phosphorous as P	0.3	0.75	0.3	0.75	0.15	n/a
Total Ammonia Nitrogen (May 1 to October 31)	3	7.5	3	7.5	3	n/a
Total Ammonia Nitrogen (November 1 to April 30)	8	20	8	20	6	n/a
pH	Maintained between 6.5 to 8.5, inclusive, at all times				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 ver the days deemed to be represented by each sample

## 2.5 Comparison of Data to Effluent Objectives

- (f) a description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6;  
(f) a description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6;  
(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;(6045-ARDJS7)  
(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 plant effluent was within the effluent objectives 91.2% of the time. Refer to Table 11 for detailed laboratory analysis results in comparison to the effluent objectives.



**Table 51.** Comparison of Warton Wastewater Treatment System Monitoring Data to Effluent Objectives, 2017

2017	CBOD <sub>5</sub>				Total Suspended Solids				Total Phosphorous				Total Ammonia Nitrogen (TAN)			
	Monthly Average (mg/L)	Within Objective (Jan 1, 2017 to Nov 22, 2017 1.5 mg/L & Nov 23, 2017 to Dec 31, 2017 10 mg/L)	Monthly Average Loading (kg/d)	Within Objective (Jan 1, 2017 to Nov 22, 2017 37.5 kg/day & Nov 23, 2017 to Dec 31, 2017 no objective)	Monthly Average (mg/L)	Within Objective (Jan 1, 2017 to Nov 22, 2017 1.5 mg/L & Nov 23, 2017 to Dec 31, 2017 10 mg/L)	Monthly Average Loading (kg/d)	Within Objective (Jan 1, 2017 to Nov 22, 2017 37.5 kg/day & Nov 23, 2017 to Dec 31, 2017 no objective)	Monthly Average (mg/L)	Within Objective (Jan 1, 2017 to Nov 22, 2017 0.3 mg/L & Nov 23, 2017 to Dec 31, 2017 0.15 mg/L)	Monthly Average Loading (kg/d)	Within Objective (Jan 1, 2017 to Nov 22, 2017 0.75 kg/day & Nov 23, 2017 to Dec 31, 2017 no objective)	Monthly Average (mg/L)	Within Objective (Nov 1 to Apr 1 - 6.0 mg/L & May 1 to Oct 31 - 3.0 mg/L)	Monthly Average Loading (kg/d)	Within Objective (Nov 1 to Apr 1 - 7.5 kg/day & May 1 to Oct 31 - 20 kg/day)
January	3.7	Y	9.764	Y	4.7	Y	12.427	Y	0.12	Y	0.328	Y	0.47	n/a	1.243	Y
February	2.7	Y	5.326	Y	4.3	Y	8.655	Y	0.09	Y	0.173	Y	0.20	n/a	0.399	Y
March	7.0	Y	19.379	Y	8.3	Y	23.070	Y	0.07	Y	0.203	Y	0.10	n/a	0.277	Y
April	9.0	Y	23.513	Y	15.5	N	40.495	N	0.08	Y	0.196	Y	0.20	n/a	0.523	Y
May	5.5	Y	9.773	Y	7.0	Y	12.438	Y	0.10	Y	0.169	Y	0.20	n/a	0.355	Y
June	2.0	Y	2.563	Y	3.0	Y	3.845	Y	0.09	Y	0.109	Y	0.10	n/a	0.128	Y
July	2.7	Y	4.293	Y	3.0	Y	4.829	Y	0.06	Y	0.097	Y	1.97	n/a	3.166	Y
August	2.0	Y	1.853	Y	3.0	Y	2.780	Y	0.07	Y	0.060	Y	0.80	n/a	0.741	Y
September	2.0	Y	1.288	Y	3.0	Y	1.931	Y	0.12	Y	0.074	Y	0.10	n/a	0.064	Y
October	2.0	Y	2.942	Y	2.0	Y	2.942	Y	0.08	Y	0.118	Y	0.10	n/a	0.147	Y
November	2.0*	Y	4.335	Y	2.0*	Y	4.335	Y	0.08*	Y	0.184	Y	0.43*	Y	1.084	n/a
December	3.8*	Y	8.911	n/a	4.3*	Y	10.025	n/a	0.06*	Y	0.134	Y	0.24*	Y	0.446	n/a

\*"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

## 2.6 Effluent Monitoring

The total effluent flow in 2017 was 673,838 m<sup>3</sup> with an annual average daily flow of 1,846 m<sup>3</sup>/day. Total effluent flows in 2017 have increased in comparison to 2016.

## 2.7 Influent Monitoring

ECA 6045-ARDJS7 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;

The total influent flow in 2017 was 698,235 m<sup>3</sup> with an annual average daily flow of 1,917.69 m<sup>3</sup>/day, which is 76.7% of the recommended rated capacity of 2,500 m<sup>3</sup>/day (ECA 6375-A2PKKS and ECA 6211-AGEU4W). Under ECA 6045-ARDJS7 the rated capacity is now 4,400 m<sup>3</sup>/day. Total influent flows in 2017 have slightly increased in comparison to 2016. The daily influent flow remained within the recommended rated capacity 82.2% (i.e. 300 out of 365 days) of the time during 2017.

**Table 12:** Influent Characteristics

	Minimum	Average	Maximum
cBOD5 (mg/L)	58	101	145
BOD5 (mg/L)	43	146	231
TSS (mg/L)	46	118	221
TKN (mg/L)	10.9	19.7	32.3
Total Phosphorous	0.21	2.10	4.06

In 2017, approximately 2,724.86 m<sup>3</sup> of septage was received by the Warton Wastewater Treatment System, slightly increased from 2016 (2,312.92 m<sup>3</sup>) and 2015 (2,306.75 m<sup>3</sup>) 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 between samples. Refer to Appendix F for Septage Laboratory Results.

**Table 13:** Septage Receiving Characteristics (November 2017 – December 2017)

	Minimum	Maximum
Biochemical Oxygen Demand (BOD5) [mg/L]	1,530	1,540
Total Suspended Solids [mg/L]	430	1,310
Chemical Oxygen Demand [mg/L]	2,920	3,180
Ammonia+Ammonium (N) [mg/L]	8	39
Total Kjeldahl Nitrogen [as N mg/L]	60	78
Phosphorus (total) [mg/L]	14	15
Isopropyl Alcohol [mg/L]	<5	< 5
Methyl alcohol [mg/L]	<5	< 5
Acetone [µg/L]	< 300	< 600
Benzene [µg/L]	< 5	< 10
Ethylbenzene [µg/L]	< 5	< 10
Methylene Chloride [ug/L]	< 5	< 10
Methyl ethyl ketone [µg/L]	< 200	< 400
Toluene [µg/L]	39	44
Xylene (total) [µg/L]	< 5	< 10
o-xylene [µg/L]	< 5	< 10
m/p-xylene [µg/L]	< 5	< 10

## 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 6375-A2PKKS, ECA 6211-AGEU4W, and 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:*

- o *b. when the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity.*

The total influent flow in 2017 was 698,235 m<sup>3</sup> with an annual average daily flow of 1,917.69 m<sup>3</sup>/day, which is 76.7% of the recommended rated capacity of 2,500 m<sup>3</sup>/day (ECA 6375-A2PKKS and ECA 6211-AGEU4W).

Under ECA 6045-ARDJS7 the rated capacity is now 4,400 m<sup>3</sup>/day. Total influent flows in 2017 have slightly increased in comparison to 2016. The daily influent flow remained within the recommended rated capacity 82.2% (i.e. 300 out of 365 days) of the time during 2017.

A summary of the average and maximum daily flows 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 2017

2017	Maximum Daily Raw Sewage Flow (m <sup>3</sup> /d)	Average Daily Raw Sewage Flow (m <sup>3</sup> /d)	Annual Average (m <sup>3</sup> /d)	Within Limits of Rated Capacity (2,500 m <sup>3</sup> /d)
January	4,324	2,677	1,917	Yes
February	6,578	2,623		
March	5,544	2,133		
April	6,026	2,577		
May	3,787	2,124		
June	3,979	1,918		
July	7,829	2,325		
August	1,944	1,460		
September	1,451	1,124		
October	1,540	1,016		
November	3,090	1,657		
December	2,158	1,379		

### 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. 1.16 mg/L in 2017, 3.46 mg/L in 2016, and 4.75 mg/L in 2015).

**Table 65.** Monitoring Parameters for Warton Wastewater Treatment System, 2017

Parameters	Average	Minimum	Maximum
Total Kjeldahl Nitrogen (N mg/L)	1.16	0.50	3.40

## 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 Warton Wastewater Treatment System is performing adequately and successfully. The system shows a high removal efficiency and was within effluent limits the vast majority of the time. 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**

*(b) a description of any operating problems encountered and corrective actions taken; (6375-A2PKKS)*

*(b) a description of any operating problems encountered and corrective actions taken;(6211-AGEU4W)*

*(c). a summary of all operating issues encountered and corrective actions taken;( 6045-ARDJS7)*

There was one overflow at the Wiaraton Wastewater Treatment System or any associated pumping station and the sewage lagoon system operated within its rated capacity. For 2017 an operating challenge was the intermittent power bumps which caused the treated sewage to bypass UV disinfection, the required bypass reporting was completed and Operations staff were able to maintain good overall performance of the sewage lagoon system.

### **4. Major Maintenance & Emergency Repairs**

*(c) a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;*

*(c) a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works;*

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

- SCADA programming and hardware for the new Aluminum Sulfate Injection system.
- Creation of Wiaraton WWTP Moving Bed Bioreactor System Operational Guidelines
- New faucet mounted eye wash station for MBBR building.
- Refurbished Wedeco Ultraviolet Disinfection Unit wiper assembly.
- Replaced UV Ballasts
- Septage Receiving Station Valve Chamber – repairs made to concrete as ground water was seeping into chamber.
- MBBR Cells – repairs made to concrete walls to mitigate leaks.
- Repaired Louvers at pump station 1.
- Repaired coolant leak on diesel generator at pump station 1.
- Cleaned filter building wet well.
- Cleaned pump station no. 1 wet well.
- Cleaned pump station no. 2 wet well.
- Performed maintenance on all pumps at pump station no. 2
- Flushed collection system in Wiaraton.
- Installed new motor on air scrubber in MBBR building.

### **5. Effluent Quality Assurance/Control Measures**

*• (d) a summary of any effluent quality assurance or control measures undertaken in the reporting period;*

*• (d) a summary of any effluent quality assurance or control measures undertaken in the reporting period;*

*• e. a summary of any effluent quality assurance or control measures undertaken;*

All laboratory analyzed 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 all 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.

## **6. Calibration & Maintenance**

- *(e) a summary of the calibration and maintenance carried out on all effluent monitoring equipment;*
- *(e) a summary of the calibration and maintenance carried out on all effluent monitoring equipment;*
- *f. 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, upon completion, Operators sign-off and the work order is considered closed.

On May 8, 2017, Flowmetrix 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 all with percent errors of less than 5%. All records for calibrations/ verifications can be found in Appendix B.

On July 6, 2017, 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**

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

Since the facility is a sewage lagoon system, accumulated sludge is stored in the lagoon cells. No sludge was disposed of in 2017 and no sludge is expected to be removed in 2018.

## 8. Septage Receiving Works

In 2017, approximately 2,724.86 m<sup>3</sup> 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
- D&S Portables

The total monthly volume of septage received can be found in Table 16. Detailed haulage volumes can be found in Appendix C.

**Table 16.** Total Volume of Septage Received in 2017

Month	Total Volume of Septage Received (m <sup>3</sup> )
January	226.78
February	162.30
March	228.67
April	200.94
May	203.66
June	195.09
July	369.10
August	384.32
September	234.23
October	196.57
November	148.90
December	174.30

## 9. Community Complaints

- *(h) a summary of any complaints received during the reporting period and any steps taken to address the complaints;*
- *(h) a summary of any complaints received during the reporting period and any steps taken to address the complaints;*
- *a summary of any complaints received and any steps taken to address the complaints;*

During 2017, thirteen (13) community complaints for the Wiarton Wastewater Treatment System were received regarding sewer lateral services blockages. A detailed summary of the community complaints can be found in Appendix D.

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

- *a summary of all By-pass, spill or abnormal discharge events;*
- *a summary of all By-pass, spill or abnormal discharge events;*
- *j. a summary of all Bypasses, Overflows, spills within the meaning of Part X of EPA and abnormal discharge events, and other abnormal operating conditions;*

There was one overflow and no abnormal discharge events in 2017 at the Wiarton Wastewater Treatment System.

**Table 17.** Overflow Events

Environmental Incident #	Date	Time		Duration HH:MM	Volume (M <sup>3</sup> )	Treatment Process	Reason for Bypass	Samples
		Start	End					
901318	July 13, 2017	14:42	15:12	0:30	18	PS1 – RAW SEWAGE	Heavy rains	SGS Laboratory Results CA13425 & CA14414

Six (6) reports of final effluent (total volume of 192.7 m<sup>3</sup>) being discharged without receiving UV disinfection were reported. All required information was recorded and the appropriate notifications were made to the Spills Action Centre, Ministry of Environment and Climate Change, Ministry of Health, the Town of South Bruce Peninsula and Environment Canada. Refer to Table 16 for a summary and Appendix E for detailed by-pass reports. As of February 24, 2017 (ECA 6211-AGEU4W & ECA 6045-ARDJS7), quarterly bypass/overflow reports are to be submitted to the Water supervisor. All 2017 quarterly reports were submitted to the Water Supervisor by the deadline and have been included in Appendix E.

**Table 18.** Bypass Events

Date	Time		Duration	Volume	Treatment Process Bypassed	Reason for Bypass
	Start	End	HH:MM	(M <sup>3</sup> )		
February 25, 2017	13:00	13:15	0:15	31.3	UV System	Power outage caused UV system to fail
June 13, 2017	08:55	09:10	0:15	6.0	UV System	Power outage caused UV system to fail
July 10, 2017	07:50	09:50	2:00	89.5	UV System	Power outage/phase loss damaged ballast on UV
September 27, 2017	09:01	09:26	0:25	8.7	UV System	Power outage/phase loss
September 29, 2017	13:10	13:50	0:40	22.2	UV System	Power outage
November 6, 2017	10:40	11:00	0:20	35	UV System	Power outage

## 11. Notice of Modifications

- (j) a copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule B, Section 1, with a status report on the implementation of each modification;*
- (j) a copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule B, Section 1, with a status report on the implementation of each modification;*
- (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 have been submitted to the Water Supervisor during the reporting period.

## 12. Modifications

- (k) a report summarizing all modifications completed as a result of Schedule B, Section 3*
- (k) a report summarizing all modifications completed as a result of Schedule B, Section 3*

No modifications were completed as a result of Schedule B, Section 3 during the reporting period.

## 13. Information for Water Supervisor

- (l) any other information the Water Supervisor may require from time to time.*
- (l) any other information the Water Supervisor may require from time to time.*

The Water Supervisor has not made any requests for additional information to be included in the Performance Report for this reporting period.



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

## **Appendix A**

Performance Assessment Report



Ontario Clean Water Agency  
Performance Assessment Report Wastewater/Lagoon

From: 01/01/2017 to 31/12/2017

Report extracted 03/23/2018 09:20

Facility: [5620] WIARTON WASTEWATER TREATMENT LAGOON

Works: [11000819]

	01/2017	02/2017	03/2017	04/2017	05/2017	06/2017	07/2017	08/2017	09/2017	10/2017	11/2017	12/2017	<--Total-->	<--Avg.-->	<--Max-->
<b>Flows:</b>															
Raw Flow: Total - Raw Sewage (m³)	82999.00	73448.00	66110.00	77312.00	65841.00	57543.00	72063.00	45257.00	33715.00	31500.00	49696.00	42751.00	698235.00		
Raw Flow: Avg - Raw Sewage (m³/d)	2677.39	2623.14	2132.58	2577.07	2123.90	1918.10	2324.61	1459.90	1123.83	1016.13	1656.53	1379.06		1917.69	
Raw Flow: Max - Raw Sewage (m³/d)	4324.00	6578.00	5544.00	6026.00	3787.00	3979.00	7829.00	1944.00	1451.00	1540.00	3090.00	2158.00			7829.00
Eff. Flow: Total - Effluent (m³)	82552.00	55925.00	85821.00	78377.00	55083.00	38452.00	49903.00	28726.00	19314.00	45607.00	65020.00	69058.00	673838.00		
Eff. Flow: Avg - Effluent (m³/d)	2662.97	1997.32	2768.42	2612.57	1776.87	1281.73	1609.77	926.65	643.80	1471.19	2167.33	2227.68		1845.53	
Eff. Flow: Max - Effluent (m³/d)	5102.00	4690.00	5969.00	5300.00	3838.00	2565.00	3361.00	2081.00	1840.00	2712.00	4285.00	3068.00			5969.00
<b>Carbonaceous Biochemical Oxygen Demand: CBOD:</b>															
Raw: Avg cBOD5 - Raw Sewage (mg/L)	121.000	102.000	58.000	105.000	59.000	145.000	118.000							101.143	145.000
Raw: # of samples of cBOD5 - Raw Sewage (mg/L)	1	1	1	1	1	1	1	0	0				7		
Eff: Avg cBOD5 - Effluent (mg/L)	< 3.667	< 2.667	7.000	9.000	< 5.500	< 2.000	< 2.667	< 2.000	< 2.000	< 2.000	< 2.000	< 4.000		< 3.708	9.000
Eff: # of samples of cBOD5 - Effluent (mg/L)	3	3	3	4	2	2	3	2	2	2	2	2	30		
Loading: cBOD5 - Effluent (kg/d)	< 9.764	< 5.326	19.379	23.513	< 9.773	< 2.563	< 4.293	< 1.853	< 1.288	< 2.942	< 4.335	< 8.911		< 7.828	23.513
Percent Removal: cBOD5 - Raw Sewage (mg/L)	96.970	97.386	87.931	91.429	90.678	98.621	97.740								98.621
<b>Biochemical Oxygen Demand: BOD5:</b>															
Raw: Avg BOD5 - Raw Sewage (mg/L)							128.000	167.000	231.000	149.000	43.000	179.000		149.500	231.000
Raw: # of samples of BOD5 - Raw Sewage (mg/L)							2	1	1	1	1	1	7		
<b>Total Suspended Solids: TSS:</b>															
Raw: Avg TSS - Raw Sewage (mg/L)	120.000	114.000	60.000	104.000	73.000	159.000	74.000	193.000	221.000	145.000	46.000	145.000		121.167	221.000
Raw: # of samples of TSS - Raw Sewage (mg/L)	1	1	1	1	1	1	2	1	1	1	1	1	13		
Eff: Avg TSS - Effluent (mg/L)	4.667	4.333	8.333	15.500	7.000	3.000	< 3.000	3.000	3.000	< 2.000	< 2.000	4.500		< 5.028	15.500
Eff: # of samples of TSS - Effluent (mg/L)	3	3	3	8	2	2	3	2	2	2	2	2	34		
Loading: TSS - Effluent (kg/d)	12.427	8.655	23.070	40.495	12.438	3.845	< 4.829	2.780	1.931	< 2.942	< 4.335	10.025		< 10.648	40.495
Percent Removal: TSS - Raw Sewage (mg/L)	96.111	96.199	86.111	85.096	90.411	98.113	95.946	98.446	98.643	98.621	95.652	96.897			98.643
<b>Total Phosphorus: TP:</b>															
Raw: Avg TP - Raw Sewage (mg/L)	2.600	1.810	1.420	1.990	1.270	2.950	1.023	3.120	4.060	3.330	1.210	2.600		2.282	4.060
Raw: # of samples of TP - Raw Sewage (mg/L)	1	1	1	1	1	1	3	1	1	1	1	1	14		
Eff: Avg TP - Effluent (mg/L)	0.123	0.087	0.073	0.075	0.095	0.085	0.060	0.065	0.115	0.080	0.085	0.060		0.084	0.123
Eff: # of samples of TP - Effluent (mg/L)	3	3	3	4	2	2	3	2	2	2	2	2	30		
Loading: TP - Effluent (kg/d)	0.328	0.173	0.203	0.196	0.169	0.109	0.097	0.060	0.074	0.118	0.184	0.134		0.154	0.328
Percent Removal: TP - Raw Sewage (mg/L)	95.256	95.212	94.836	96.231	92.520	97.119	94.137	97.917	97.167	97.598	92.975	97.692			97.917
<b>Nitrogen Series:</b>															
Raw: Avg TKN - Raw Sewage (mg/L)	17.600	12.800	14.200	16.500	11.200	28.300	18.000	28.900	32.300	24.000	10.900	22.100		19.733	32.300
Raw: # of samples of TKN - Raw Sewage (mg/L)	1	1	1	1	1	1	1	1	1	1	1	1	12		
Eff: Avg TAN - Effluent (mg/L)	0.467	< 0.200	< 0.100	< 0.200	0.200	< 0.100	1.967	0.800	< 0.100	< 0.100	0.500	0.200		< 0.411	1.967
Eff: # of samples of TAN - Effluent (mg/L)	3	3	3	4	2	2	3	2	2	2	2	2	30		
Loading: TAN - Effluent (kg/d)	1.243	< 0.399	< 0.277	< 0.523	0.355	< 0.128	3.166	0.741	< 0.064	< 0.147	1.084	0.446		< 0.714	3.166
Eff: Avg NO3-N - Effluent (mg/L)	5.120	5.033	3.767	1.640	1.090	0.750	1.497	1.515	0.730	1.050	2.365	4.135		2.391	5.120
Eff: # of samples of NO3-N - Effluent (mg/L)	3	3	3	4	2	2	3	2	2	2	2	2	30		
Eff: Avg NO2-N - Effluent (mg/L)	0.080	< 0.060	< 0.030	< 0.033	< 0.045	< 0.030	0.157	< 0.055	< 0.030	< 0.030	0.085	0.075		< 0.059	0.157
Eff: # of samples of NO2-N - Effluent (mg/L)	3	3	3	4	2	2	3	2	2	2	2	2	30		
<b>Disinfection:</b>															
Eff: GMD E. Coli - Effluent (cfu/100mL)	2.000	2.000	2.000	2.000	2.000	2.000	2.000	3.420	60.732	2.000	2.000	1.414	2.000	6.964	60.732



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

## **Appendix B**

Calibration Reports

Western Office Eastern Office  
2088 Jetstream Road 1602 Old Wooler Road  
London, Ontario Wooler, Ontario  
N5V 3P6 K0K 3M0

**RESULTS**  
**PASSED**

CLIENT DETAIL		DEVICE INFORMATION	
CUSTOMER	OCWA - West Highlands	[MUT] MANUFACTURER	Endress & Hauser
CONTACT	Leo Paul Frigault Cluster Manager 519-797-3080	MODEL	Promag 400
		CONVERTER SERIAL NUMBER	KC1E9919000
		ORDER CODE	5L4C3H-2RW5/0
		PLANT ID	Warton Head Works
		METER ID	Influent Force Main
		FIT ID	FIT-104
		CLIENT TAG	OCWA# not assigned
		OTHER	n/a
		GPS COORDINATES	n/a
VER. BY - FM	Paris Machuk	VERIFICATION DATE	May 08, 2017
Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC-QMS document at the time this test was conducted.		CAL. FREQUENCY	Annual
		CAL. DUE DATE	May, 2018

CALIBRATION			TOTALIZER		
DIAMETER (DN)	mm	300	AS FOUND	555735.88	M3
CALIBRATION FACTOR		1.3133	AS LEFT	555735.88	M3
ZERO POINT		-4	DIFFERENCE	0	M3
VERIFICATION INFORMATION			COMPONENTS TESTED		
OPERATING TIME (d/h/m/s)	d	362	SENSOR - Coil Current Shot Time	yes	
	h	17	SENSOR - Coil Hold Voltage	yes	
	m	22	SENSOR - Coil Current	yes	
	s	3	SENSOR - Electrode Reference Voltage	yes	
DATE/TIME	date (dd.mm.yy)	08.05.17	SENSOR - Linearity Electrode Circuit	yes	
	time (hh:mm)	12:03	SENSOR - Offset Electrode Circuitry	yes	
			I/O Module	yes	
VERIFICATION ID		2			

OVERALL VERIFICATION	PASSED
<b>SENSOR</b>	<b>PASSED</b>
Coil Current Shot Time	PASSED
Coil Hold Voltage	PASSED
Coil Current	PASSED
<b>SENSOR ELECTRONIC MODULE</b>	<b>PASSED</b>
Reference Voltage	PASSED
Linearity of Electrode Measuring Circuit	PASSED
Offset of Electrode Measuring Circuit	PASSED
<b>SENSOR ELECTRONIC MODULE</b>	<b>PASSED</b>
Reference Voltage	PASSED

**COMMENTS**

---

This report reflects the results based on the manufacturers HEARTBEAT diagnostic technology for flow meter verification for all Prosonic 400 series meters with an active HEARTBEAT.

Western Office Eastern Office  
2088 Jetstream Road 1602 Old Wooler Road  
London, Ontario Wooler, Ontario  
N5V 3P6 K0K 3M0

**RESULTS**  
**PASSED**

CLIENT DETAIL		DEVICE INFORMATION	
CUSTOMER	OCWA - West Highlands	[MUT] MANUFACTURER	Endress & Hauser
CONTACT	Leo Paul Frigault Cluster Manager 519-797-3080	MODEL	Promag 400
		CONVERTER SERIAL NUMBER	KC1E9819000
		ORDER CODE	5L4C2H-3K91/0
		PLANT ID	Warton Head Works
		METER ID	Septage Receiving
		FIT ID	FIT-105
		CLIENT TAG	OCWA# not assigned
		OTHER	n/a
		GPS COORDINATES	n/a
VER. BY - FM	Paris Machuk	VERIFICATION DATE	May 08, 2017
Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC-QMS document at the time this test was conducted.		CAL. FREQUENCY	Annual
		CAL. DUE DATE	May, 2018

CALIBRATION			TOTALIZER		
DIAMETER (DN)	mm	200	AS FOUND	0.14	M3
CALIBRATION FACTOR		1.0880	AS LEFT	0.14	M3
ZERO POINT		0	DIFFERENCE	0	M3

VERIFICATION INFORMATION			COMPONENTS TESTED	
OPERATING TIME (d/h/m/s)	d	362	SENSOR - Coil Current Shot Time	yes
	h	16	SENSOR - Coil Hold Voltage	yes
	m	49	SENSOR - Coil Current	yes
	s	55	SENSOR - Electrode Reference Voltage	yes
DATE/TIME	date (dd.mm.yy)	08.05.17	SENSOR - Linearity Electrode Circuit	yes
	time (hh:mm)	12:15	SENSOR - Offset Electrode Circuitry	yes
			I/O Module	yes
VERIFICATION ID		2		

OVERALL VERIFICATION	PASSED
<b>SENSOR</b>	<b>PASSED</b>
Coil Current Shot Time	PASSED
Coil Hold Voltage	PASSED
Coil Current	PASSED
<b>SENSOR ELECTRONIC MODULE</b>	<b>PASSED</b>
Reference Voltage	PASSED
Linearity of Electrode Measuring Circuit	PASSED
Offset of Electrode Measuring Circuit	PASSED
<b>SENSOR ELECTRONIC MODULE</b>	<b>PASSED</b>
Reference Voltage	PASSED

**COMMENTS**

---

This report reflects the results based on the manufacturers HEARTBEAT diagnostic technology for flow meter verification for all Prosonic 400 series meters with an active HEARTBEAT.

Western Office Eastern Office  
2088 Jetstream Road 1602 Old Wooler Road  
London, Ontario Wooler, Ontario  
N5V 3P6 K0K 3M0

**RESULTS**  
**PASSED**

CLIENT DETAIL		DEVICE INFORMATION	
CUSTOMER	OCWA - West Highlands	[MUT] MANUFACTURER	Endress & Hauser
CONTACT	Leo Paul Frigault Cluster Manager 519-797-3080	MODEL	Promag 400
		CONVERTER SERIAL NUMBER	KC1EF119000
		ORDER CODE	5L4C1H-40D6/0
		PLANT ID	Warton Head Works
		METER ID	Receiving Station
		FIT ID	FIT-301
		CLIENT TAG	OCWA# not assigned
		OTHER	n/a
		GPS COORDINATES	n/a
VER. BY - FM	Paris Machuk	VERIFICATION DATE	May 08, 2017
Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC-QMS document at the time this test was conducted.		CAL. FREQUENCY	Annual
		CAL. DUE DATE	May, 2018

CALIBRATION			TOTALIZER	
DIAMETER (DN)	mm	100	AS FOUND	41.59 M3
CALIBRATION FACTOR		1.3788	AS LEFT	41.59 M3
ZERO POINT		-4	DIFFERENCE	0 M3
VERIFICATION INFORMATION			COMPONENTS TESTED	
OPERATING TIME (d/h/m/s)	d	363	SENSOR - Coil Current Shot Time	yes
	h	9	SENSOR - Coil Hold Voltage	yes
	m	55	SENSOR - Coil Current	yes
	s	49	SENSOR - Electrode Reference Voltage	yes
DATE/TIME	date (dd.mm.yy)	08.05.17	SENSOR - Linearity Electrode Circuit	yes
	time (hh:mm)	12:29	SENSOR - Offset Electrode Circuitry	yes
			I/O Module	yes
VERIFICATION ID		2		

OVERALL VERIFICATION	PASSED
<b>SENSOR</b>	<b>PASSED</b>
Coil Current Shot Time	PASSED
Coil Hold Voltage	PASSED
Coil Current	PASSED
<b>SENSOR ELECTRONIC MODULE</b>	<b>PASSED</b>
Reference Voltage	PASSED
Linearity of Electrode Measuring Circuit	PASSED
Offset of Electrode Measuring Circuit	PASSED
<b>SENSOR ELECTRONIC MODULE</b>	<b>PASSED</b>
Reference Voltage	PASSED

**COMMENTS**

---

This report reflects the results based on the manufacturers HEARTBEAT diagnostic technology for flow meter verification for all Prosonic 400 series meters with an active HEARTBEAT.

Western Office Eastern Office  
2088 Jetstream Road 1602 Old Wooler Road  
London, Ontario Wooler, Ontario  
N5V 3P6 K0K 3M0

**AS FOUND CERTIFICATION**  
**FORWARD FLOW DIRECTION**  
**PASS**

**CLIENT DETAIL**

CUSTOMER OCWA - West Highlands  
CONTACT Leo Paul Frigault  
Cluster Manager  
519-797-3080

[MUT] MANUFACTURER Krohne  
MODEL IFC 010D  
SERIAL NUMBER A99 11651  
FUSE On board plug

**EQUIPMENT DETAIL**

PLANT ID Wiarton SPS No1 (Taylor St)  
METER ID Station Flow  
FIT ID N/A  
CLIENT TAG OCWA# 165372  
OTHER ORG# 5620  
GPS COORDINATES N44 44.503 W81 08.018

VER. BY - FM Paris Machuk

Quality Management Standards Information -  
Reference equipment and instrumentation used to  
conduct this verification test is found in our AC-QMS  
document at the time this test was conducted.

VERIFICATION DATE May 08, 2017  
CAL. FREQUENCY Annual  
CAL. DUE DATE May, 2018

**PROGRAMMING PARAMETERS**

DIAMETER (DN) mm 200  
F.S. FLOW - MAG LPS 215.7  
F.S. RANGE - O/P LPS 200.0  
CAL. K-FACTOR GKL 4.50500

**FORWARD TOTALIZER INFORMATION**

AS FOUND 4315425 M3  
AS LEFT 4315442 M3  
DIFFERENCE 17 M3

**TEST CRITERIA**

AS FOUND CERTIFICATION TEST Yes  
FORWARD FLOW DIRECTION Yes  
ALLOWABLE [%] ERROR 5

**COMPONENTS TESTED**

CONVERTER DISPLAY Yes  
mA OUTPUT Yes  
TOTALIZER Yes  
ACCURACY BASED ON [% o.r.] Yes

Zero Offset Flow LPS 0.53

ERROR DOCUMENTED IN THIS REPORT; BASED ON % o.r.

**FLOW TUBE SIMULATION**

		0.0	0.5	1.0	2.0	5.0	m/s	
		0.2	5.2	10.2	20.2	50.2	% F.S. Flow	
		0.3	5.7	11.0	21.8	54.2	% F.S. Range	
<b>REF. FLOW RATE</b>		<b>0.53</b>	<b>11.31</b>	<b>22.10</b>	<b>43.67</b>	<b>108.37</b>	LPS	
MUT [Reading]		0.50	11.31	22.12	43.68	108.43	LPS	
MUT [Difference]		-0.03	0.00	0.02	0.01	0.06	LPS	
MUT [% Error]		-5.66	-0.04	0.10	0.03	0.05	%	
<b>mA OUTPUT</b>		<b>4.000</b>	<b>4.905</b>	<b>5.768</b>	<b>7.493</b>	<b>12.670</b>	mA	
MUT [Reading]	min. 4.000 mA	4.158	5.065	5.910	7.632	12.789	mA	
MUT [Difference]	max. 20.000 mA	0.158	0.160	0.142	0.139	0.119	mA	
MUT [% Error]		3.95	3.26	2.46	1.85	0.94	%	
<b>TOTALIZER - REF. FLOW RATE</b>							<b>108.375</b>	LPS
TOTALIZER [MUT]							10	M3
TEST TIME							92.49	SECONDS
CALC. TOTALIZER							10.024	M3
ERROR							-0.24	%

**COMMENTS**

**QUALITY MANAGEMENT STANDARDS INFO.**

[QMS] INFORMATION	IDENT.	ID #
[REFERENCE] FTS	KRO	1
PROCESS METER	DMM	3
ANALOG METER	AM	N/A
STOP WATCH	SW	YES

**RESULTS**

TEST	AVG % o.r.	PASS FAIL
DISPLAY	0.03	PASS
mA OUTPUT	2.49	PASS
TOTALIZER	-0.24	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.

Western Office Eastern Office  
2088 Jetstream Road 1602 Old Wooler Road  
London, Ontario Wooler, Ontario  
N5V 3P6 K0K 3M0

**AS FOUND CERTIFICATION**  
**FORWARD FLOW DIRECTION**  
**PASS**

CLIENT DETAIL		EQUIPMENT DETAIL	
CUSTOMER	OCWA - West Highlands	[MUT] MANUFACTURER	Krohne
CONTACT	Leo Paul Frigault Cluster Manager 519-797-3080	MODEL	IFC 010D
		SERIAL NUMBER	A98 17181
		FUSE	On board plug
		PLANT ID	Wiaraton SPS No2 (441048 Elm St)
		METER ID	Station Flow
		FIT ID	N/A
		CLIENT TAG	OCWA# 165385
		OTHER	ORG# 5620
VER. BY - FM	Paris Machuk	GPS COORDINATES	N44 44.148 W81 08.008
Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC-QMS document at the time this test was conducted.		VERIFICATION DATE	May 08, 2017
		CAL. FREQUENCY	Annual
		CAL. DUE DATE	May, 2018

PROGRAMMING PARAMETERS			FORWARD TOTALIZER INFORMATION		
DIAMETER (DN)	mm	250	AS FOUND	9200517	M3
F.S. FLOW - MAG	LPS	339.9	AS LEFT	9200547	M3
F.S. RANGE - O/P	LPS	250.0	DIFFERENCE	30	M3
CAL. K-FACTOR	GKL	4.54400	<b>TEST CRITERIA</b>		
			AS FOUND CERTIFICATION TEST	Yes	
			FORWARD FLOW DIRECTION	Yes	
			ALLOWABLE [%] ERROR	5	
			<b>COMPONENTS TESTED</b>		
			CONVERTER DISPLAY	Yes	
			mA OUTPUT	Yes	
			TOTALIZER	Yes	
			ACCURACY BASED ON [% o.r.]	Yes	
Zero Offset Flow	LPS	-1.25	ERROR DOCUMENTED IN THIS REPORT; BASED ON % o.r.		

FLOW TUBE SIMULATION							
		0.0	0.5	1.0	2.0	5.0	m/s
		-0.4	4.6	9.6	19.6	49.6	% F.S. Flow
		-0.5	6.3	13.1	26.7	67.5	% F.S. Range
<b>REF. FLOW RATE</b>		<b>-1.25</b>	<b>15.75</b>	<b>32.74</b>	<b>66.74</b>	<b>168.72</b>	LPS
MUT [Reading]		-1.25	15.83	32.76	66.68	168.64	LPS
MUT [Difference]		0.00	0.08	0.02	-0.06	-0.08	LPS
MUT [% Error]		0.00	0.53	0.05	-0.08	-0.05	%
<b>mA OUTPUT</b>		<b>4.000</b>	<b>5.008</b>	<b>6.096</b>	<b>8.271</b>	<b>14.798</b>	mA
MUT [Reading]	min. 4.000 mA	4.147	5.157	6.251	8.407	14.902	mA
MUT [Difference]	max. 20.000 mA	0.147	0.149	0.155	0.136	0.104	mA
MUT [% Error]		3.68	2.98	2.55	1.64	0.70	%
<b>TOTALIZER - REF. FLOW RATE</b>						<b>168.716</b>	LPS
TOTALIZER [MUT]						19	M3
TEST TIME						112.37	SECONDS
CALC. TOTALIZER ERROR						18.959	M3
						0.22	%

COMMENTS	QUALITY MANAGEMENT STANDARDS INFO.			RESULTS		
	[QMS] INFORMATION	IDENT.	ID #	TEST	AVG % o.r.	PASS FAIL
	[REFERENCE] FTS	KRO	1			
	PROCESS METER	DMM	3	DISPLAY	0.11	PASS
	ANALOG METER	AM	N/A	mA OUTPUT	2.31	PASS
	STOP WATCH	SW	YES	TOTALIZER	0.22	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.

**AS FOUND CERTIFICATION**

**PASS**

CLIENT DETAIL		EQUIPMENT DETAIL	
CUSTOMER	OCWA - West Highlands	[MUT] MANUFACTURER	Milltronics
CONTACT	Leo Paul Frigault Cluster Manager 519-797-3080	MODEL	MultiRanger
		CONVERTER SERIAL NUMBER	05w023466
		PLANT ID	Warton WWTP
		METER ID	Final Effluent
		FIT ID	1001
		CLIENT TAG	OCWA# 209316
		OTHER	ORG# 5620
VER. BY - FM	Paris Machuk	GPS COORDINATES	N44 44.014 W81 07.965
Quality Management Standards Information - Reference equipment and instrumentation used to conduct this verification test is found in our AC-QMS document at the time this test was conducted.		VERIFICATION DATE	May 08, 2017
		CAL. FREQUENCY	Annual
		CAL. DUE DATE	May, 2018

PROGRAMMING PARAMETERS				TOTALIZER	
THROAT WIDTH, (exp 1.5)	m	1.010		AS FOUND	884671.22 M3
EMPTY DISTANCE, TX to notch	m	0.5038		AS LEFT	884706.78 M3
TRANSDUCER (TX), to sump floor	m	n/a		DIFFERENCE	35.56 M3
SUMP LEVEL, zero flow	m	n/a		<b>TEST CRITERIA</b>	
				AS FOUND CERTIFICATION TEST	Yes
				ALLOWABLE [%] ERROR	15
				<b>COMPONENTS TESTED</b>	
MAX. HEAD	m	0.200		CONVERTER DISPLAY	yes
BLANKING DISTANCE	m	0.300		mA OUTPUT	yes
DEAD ZONE	m	0.304		TOTALIZER	yes
MAX. FLOW	M3/H	574.1		ACCURACY BASED ON [% o.r.]	no
F.S. RANGE - O/P	M3/H	574.1		ERROR DOCUMENTED IN THIS REPORT; BASED ON % F.S.	

Ultrasonic sensor installed to ensure full scale flow condition

AS FOUND TEST RESULTS							
		0.0	12.9	36.1	65.6	100.0	% F.S. Range
		0.000	0.050	0.100	0.150	0.200	m
<b>REF. FLOW RATE</b>		<b>0.0</b>	<b>74.0</b>	<b>207.1</b>	<b>376.7</b>	<b>574.1</b>	M3/H
MUT [Reading]		0.6	73.4	217.4	390.2	605.1	M3/H
MUT [Difference]		0.6	-0.6	10.3	13.5	31.0	M3/H
MUT [% Error]		0.1	-0.1	1.8	2.3	5.4	%
<b>mA OUTPUT</b>		<b>4.000</b>	<b>6.062</b>	<b>9.773</b>	<b>14.499</b>	<b>20.000</b>	mA
MUT [Reading]	min. 4.000 mA	4.026	6.192	9.839	14.493	20.074	mA
MUT [Difference]	max. 20.000 mA	0.026	0.130	0.066	-0.006	0.074	mA
MUT [% Error]		0.13	0.65	0.33	-0.03	0.37	%
<b>TOTALIZER - REF. FLOW RATE</b>						<b>574.070</b>	M3/H
TOTALIZER [MUT]						16.44	M3
TEST TIME						97.61	SECONDS
CALC. TOTALIZER						15.565	M3
ERROR						5.32	%

COMMENTS	QUALITY MANAGEMENT STANDARDS INFO.			RESULTS		
	[QMS] INFORMATION	IDENT.	ID #	TEST	AVG %FS	PASS FAIL
	[REFERENCE] LEVEL	Sim. BOARD	Yes			
	PROCESS METER	DMM	3	DISPLAY	2.36	PASS
	STOP WATCH	SW	Yes	mA OUTPUT	0.29	PASS
				TOTALIZER	5.32	PASS

This report reflects the test results of the overall accuracy for the above flow converter using the specified manufacturers flow tube simulator to within the specified tolerance as identified within this report.





*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : ONTARIO CLEAN WATER AGENCY

Account Number / No. de compte : 40283403

Certification Number / Numéro du Certificat : 5786120

Part Number / No. de pièce : 9020000	ASSY, PROBE, LDO MODEL 2, HACH
Serial Number / No. de série : 160630000021	
External Reference / Référence externe : Ait-203	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :  
Bilton, Stephen

Certification Date / Date de certification :  
06-JUL-17



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : ONTARIO CLEAN WATER AGENCY

Account Number / No. de compte : 40283403

Certification Number / Numéro du Certificat : 5786120

Part Number / No. de pièce : DPD1R1	Digital pH Sensor,Ryton, Convertible
Serial Number / No. de série : 1603440861	
External Reference / Référence externe : Ait-205	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :  
Bilton, Stephen

Certification Date / Date de certification :  
06-JUL-17



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : ONTARIO CLEAN WATER AGENCY

Account Number / No. de compte : 40283403

Certification Number / Numéro du Certificat : 5786120

Part Number / No. de pièce : 9020000	ASSY, PROBE, LDO MODEL 2, HACH
Serial Number / No. de série : 160630000028	
External Reference / Référence externe : Ait-202	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :  
Bilton, Stephen

Certification Date / Date de certification :  
06-JUL-17



***Certificate of Instrument Performance***  
***Certificat de Conformité***

Company Name / Nom de la Compagnie : ONTARIO CLEAN WATER AGENCY

Account Number / No. de compte : 40283403

Certification Number / Numéro du Certificat : 5786120

Part Number / No. de pièce : 9020000	ASSY, PROBE, LDO MODEL 2, HACH
Serial Number / No. de série : 160630000026	
External Reference / Référence externe : Ait-204	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :  
Bilton, Stephen

Certification Date / Date de certification :  
06-JUL-17



*Certificate of Instrument Performance*  
*Certificat de Conformité*

Company Name / Nom de la Compagnie : ONTARIO CLEAN WATER AGENCY

Account Number / No. de compte : 40283403

Certification Number / Numéro du Certificat : 5786120

Part Number / No. de pièce : LXV440.53.10002	AISE SC W RFID (USA)
Serial Number / No. de série : 1653164	
External Reference / Référence externe : Ait-207/tit-206	

Hach Sales & Service Canada Ltd. certifies that your instrument has been serviced, calibrated, verified with standards and now meets new product specifications.

Hach Sales & Service Canada Ltd. atteste que votre instrument a été entretenu, calibré et vérifié selon les normes en vigueur. Ses spécifications actuelles sont équivalentes à celles d'un produit neuf.

Certified by / Certifié par :  
Bilton, Stephen

Certification Date / Date de certification :  
06-JUL-17



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

## **Appendix C**

Septage Receiving Volumes

## 2017 Sewage Hauled to Warton Sewage Lagoons

Date	Cubic Metres	Location	Hauler	Receiving Station
January 2017	185.48	Tim Hortons (Hep)	Owen Sound Septic Services	
January 2017	41.30		Grey Bruce Septic Service	
February 2017	139.11	Tim Hortons (Hep)	Owen Sound Septic Services	
February 2017	23.185		Grey Bruce Septic Service	
March 2017	200.94	Tim Hortons (Hep)	Owen Sound Septic Services	
March 2017	27.73		Grey Bruce Septic Service	
April 2017	200.94	Tim Hortons (Hep)	Owen Sound Septic Services	
May 2017	203.66	Tim Hortons (Hep)	Owen Sound Septic Services	
June 2017	194.65	Tim Hortons (Hep)	Owen Sound Septic Services	✓
June 2017	0.44	Portable Toilets	D & S Portables	✓
July 2017	361.48	Tim Hortons (Hep)	Owen Sound Septic Services	✓
July 2017	6.04	Portable Toilets	Bluewater Sanitation	✓
July 2017	1.58	Portable Toilets	D & S Portables	✓
August 2017	371.17	Tim Hortons (Hep)	Owen Sound Septic Services	✓
August 2017	10.47	Portable Toilets	Bluewater Sanitation	✓
August 2017	2.68	Portable Toilets	D & S Portables	✓
September 2017	228.11	Tim Hortons (Hep)	Owen Sound Septic Services	✓
September 2017	1.70	Portable Toilets	Bluewater Sanitation	✓
September 2017	0.78	Portable Toilets	D & S Portables	✓
September 2017	3.64	Oliphant Islands	Tom's Septic	
October 2017	195.29	Tim Hortons (Hep)	Owen Sound Septic Services	✓
October 2017	1.28	Portable Toilets	Bluewater Sanitation	✓
November 2017	148.90	Tim Hortons (Hep)	Owen Sound Septic Services	✓
December 2017	142.88	Tim Hortons (Hep)	Owen Sound Septic Services	✓
December 2017	6.82		Bruce Peninsula Septic Services	✓
December 2017	24.60		Grey Bruce Septic Service	

**Total** **2,724.86**



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

## **Appendix D**

Community Complaints



# Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: Resident  
Address: 441 Frank St  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 12/21/2017  
Time of Complaint: 06:43:44 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

Complaint of sewer blockage

### **Action taken in response:**

Flushed line and camera'd lateral. soft blockage cleared

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

December 21st – Blockage & Back up @ 441 Frank St. All drains on site, flushed line @ camera'd, soft blockage cleared

*If any remedial action is required, complete action plan form*

Updated By: Megan Edney 03/30/2018 06:47:30 AM

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: Resident  
Address: 360 Frank St  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 12/13/2017  
Time of Complaint: 06:41:22 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

Complaint of blocked sewer

### **Action taken in response:**

Sent camera and auger through main from clean out

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

December  
·        13th- Inspected sewer line @ 360 Frank St. Camera'd and augured out to main from clean out, 14' out blockage

*If any remedial action is required, complete action plan form*

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: Resident  
Address: 801 McNaughton,  
Warton  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 11/23/2017  
Time of Complaint: 02:37:49 PM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

Received complaint from 801 McNaughton regarding a sanitary blockage.

### **Action taken in response:**

Inspected clean out and sent camera. All appears to be normal and homeowner agreed.

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

*If any remedial action is required, complete action plan form*

Updated By: Megan Edney 03/30/2018 06:03:08 AM

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: resident  
Address: 359 George st, warton  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 09/05/2017  
Time of Complaint: 06:36:44 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

Complaint of sewer blockage

### **Action taken in response:**

Sent Camera through sewer lateral

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

Pushed sewer camera in sewer lateral at 359 George Street, Warton.  
September 5th

*If any remedial action is required, complete action plan form*

Updated By: Megan Edney 03/30/2018 06:39:25 AM

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: resident  
Address: 623 Gould St, Warton  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 08/04/2017  
Time of Complaint: 06:34:04 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

received complaint from resident

### **Action taken in response:**

Sent camera through lateral

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

August 04- Camera sewer lateral at 623 Gould Street. All clear from clean out to sewer main.

*If any remedial action is required, complete action plan form*

Updated By: Megan Edney 03/30/2018 06:36:01 AM

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: resident  
Address: 623 Gould st  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 07/04/2017  
Time of Complaint: 06:30:14 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

received complaint from resident

### **Action taken in response:**

sent camera through service

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

Camera sewer lateral at 623 Gould Street

*If any remedial action is required, complete action plan form*

Updated By: Megan Edney 03/30/2018 06:33:08 AM

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: Resident  
Address: 556 Berford st  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 06/28/2017  
Time of Complaint: 06:27:01 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

complaint of blockage

### **Action taken in response:**

Sent camera through

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

Camera inside Cleanout @ 556 Berford St. for Ed (Town) June 28th

*If any remedial action is required, complete action plan form*

Updated By: Megan Edney 03/30/2018 06:29:42 AM

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: Resident  
Address: 505 Dawson St  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 05/26/2017  
Time of Complaint: 06:22:47 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

May 24th - compliant at 505 Dawson St

### **Action taken in response:**

Repaired sanitary service.

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

May 24th 2017: Repair sanitary service @ 505 Dawson St.

*If any remedial action is required, complete action plan form*

Updated By: Megan Edney 03/30/2018 06:25:39 AM



## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Wiarion Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: Resident  
Address: 410 Berford St, Wiarion  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 05/05/2017  
Time of Complaint: 06:16:14 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

Complaint of sewer blockage

### **Action taken in response:**

May 5th -Sent Snake and Camera through Service  
May 8th - power auger and sent camera through after

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

.    May 5th 2017: Sewer blockage @ Bed and Breakfast on Berford St.410 Berford St.  
.    May 8th 2017: Power auger @ 410 Berford St.& Camera, call clear

*If any remedial action is required, complete action plan form*

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: Resident of 418 Brown St  
Address: 418 Brown St Warton  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 02/23/2017  
Time of Complaint: 06:12:18 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

Complaint of blockage

### **Action taken in response:**

Sent camera through the line. No sign of blockage

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

February 23 – 418 Brown – sent camera through the line. No sign of blockage

*If any remedial action is required, complete action plan form*

Updated By: Megan Edney 03/30/2018 06:14:42 AM

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: Resident  
Address: 506 Dawson St  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 02/15/2017  
Time of Complaint: 06:09:10 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

Sewage Blockage

### **Action taken in response:**

Sent snake and camera through the sewer service. Cleared blockage and flow was restored.

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

February 15 – 506 Dawson – Sewage blockage. Located second cleanout and snaked through to clear blockage. Found a crack by the cleanout with the camera. Flow restored.

*If any remedial action is required, complete action plan form*

Updated By: Megan Edney 03/30/2018 06:12:01 AM

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: Resident  
Address: 371 Hunter  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 02/13/2017  
Time of Complaint: 06:03:20 AM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

Received complaint from resident that their service was blocked.

### **Action taken in response:**

Operator checked flow through manhole and sent snake through lateral for Hunter street. Blockage was not cleared. Resident called out a plumber to clean blockage.

Was the source of the problem identified?:  Yes  No

Was the source an OCWA facility/activity?:  Yes  No    If "Yes", describe:

*If any remedial action is required, complete action plan form*

Updated By: Megan Edney 03/30/2018 06:09:05 AM

## Ontario Clean Water Agency Community Complaints

Facility ID: 5620  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: c/o Southampton WPCP  
City: Southampton  
Province: Ontario  
Postal Code: NOH 2LO  
Name of Person who filed Complaint: Resident  
Address: 384 Gould Street,  
Warton  
Phone: \_\_\_\_\_

*NOTE: If there were multiple complaints, provide the name of the person who filed the initial complaint and note the number and details in the "Description" field below*

Date of Complaint: 02/08/2017  
Time of Complaint: 02:35:32 PM

### **Nature of Complaint**

- |                                 |   |  |
|---------------------------------|---|--|
| <input type="checkbox"/> Noise  | <input type="checkbox"/> Water Supply Taste/Colour  | <input type="checkbox"/> Water Pressure/No Water |
| <input type="checkbox"/> Visual | <input checked="" type="checkbox"/> Service Problem | <input type="checkbox"/> Basement Flooding       |
| <input type="checkbox"/> Odour  | <input type="checkbox"/> Sludge Related             |  |
- Other: \_\_\_\_\_

### **Description:**

Complaint of sewer backing up.

### **Action taken in response:**

Operator checked man holes, flow moving well. Operator informed resident to contact a plumber to clear blockage.

Was the source of the problem identified?: ● Yes ○ No

Was the source an OCWA facility/activity?: ○ Yes ● No    If "Yes", describe:

*If any remedial action is required, complete action plan form*



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

## **Appendix E**

Effluent By-Pass Reports



# WIARTON WASTEWATER TREATMENT PLANT

## QUARTERLY BYPASS REPORT

For the period of  
JANUARY 1, 2017 TO MARCH 31, 2017

As per the Amended Environmental Compliance Approval (number 6211-AGEU4W, issued on February 24, 2017), we are required to submit a summary report of the bypass events 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.

### Bypass Events

A by-pass event is defined as “a diversion of sewage around one or more unit processes within the Sewage Treatment Plant with the diverted sewage flows being returned to the Sewage Treatment Plant treatment train upstream of the Final Effluent sampling location, and discharging to the environment through the Sewage Treatment Plant outfall”

- During this period one bypass event occurred on February 25, 2017 at 1300h.

Date	Time		Duration	Volume	Treatment Process Bypassed	Reason for Bypass
	Start	End	HH:MM	(M <sup>3</sup> )		
February 25, 2017	13:00	13:15	0:15	31.25	UV System	Power outage caused UV system to fail

### Overflow Events

An overflow event is defined as “a discharge to the environment from the Sewage Treatment Plant at a location other than the plant outfall or into the plant outfall downstream of the Final Effluent sampling location”

- No overflow events took place during this period

Warton Water Treatment Plant  
897, Bayview Street, Warton, ON, NOH 2T0  
TEL: 519.534.1610 Fax: 519.534.3526



Ontario Clean Water Agency  
Agence Ontarienne Des Eaux

# Fax

WORKS # 110000819

	<u>Fax Number</u>
TO: Spills Action Centre:	1-800-268-6061 ✓
MOE Owen Sound:	519-371-2905 ✓
MOH Owen Sound:	519-376-6310 ✓
Town of South Bruce Peninsula (Attention Public Works Manager)	519-534-4976 ✓
OCWA (Attention PCT)	519-797-3080 ✓
Environment Canada (Attention Wastewater Program)	1-819-420-7380 ✓

FROM: DAVE NOBLE OIC OCWA

DATE: FEB 25, 2017 -----

RE: AWQ1 900431 -----

PAGES: \_\_\_\_\_ (including this one)

MESSAGE:

EFFLUENT FLOW REMAINED ISOLATED UNTIL UV SYSTEM  
RESTORED @ 19:00 on FEB. 25, 2017.

If you have any questions, concerns, or require additional information, please  
contact this office at 519-534-1610

*Precedentary.*

1 800 268 6060



AWOI #

900431

FACILITY NAME: Wiarion Wastewater Control Plant

WORKS#: WW 110000819

LOCATION: WIARTON FILTER BLAG

DATE/TIME -

START: 13:00

STOP: 13:15

TOTAL TIME: 15 min

OPERATOR RESPONDING: DAVE NOBLE -----  OIT ORO (circle one) IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? \_\_\_\_\_

BRIEF DESCRIPTION OF SITUATION: POWER OUTAGE -----

REASON FOR OCCURRENCE: WEATHER -----

WAS THIS A BYPASS?  YES  NO

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: \_\_\_\_\_

WHAT WAS DISCHARGED? FILTERED EFFLUENT -----

APPROXIMATE QUANTITY OF BYPASS: ----- LITRES/ Kg/ m3 (circle one) SHOW

CALCULATIONS:

flow = 3000 m<sup>3</sup>/Day

Est. 31.25 m<sup>3</sup>

OUTAGE = 15 min.

WERE SAMPLES TAKEN?

YES

NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl2 (mg/L)	TOTAL Cl2 (mg/L)

YES  NO SAMPLES TAKEN (BOD SS PHOSPHOROUS E.COLI)

YES  NO DISINFECT BYPASS

YES NO DID RELEASE ENTER WATER COURSE

YES NO DID RELEASE GO OFFSITE

NOTES:

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NOTIFICATIONS:

PLACE	NUMBERS	VERBAL COMPLETE?	WRITTEN COMPLETE?	RESOLUTION COMPLETE?	CONTACT NAME
SAC  (get reference number from them)	P: 1-800-268-6060  F: 1-800-268-6061	13:50	10:30 FEB 26/17		
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	14:18	" "		
OWEN SOUND MOH	P: 519-376-9420  ONCALL: P: 519-376-5420  F: 519-376-6310	13:40	" "		
CLIENT TOWN OF SOUTH BRUCE PENINSULA	P: 519-534-1400 X 131 Public Works Manager F: 519-534-4976	no ANSWER	" "		
MANAGER	P: 519-379-2225 F: 519-534-3526	13:50	" "		
OCWA PCT SOUTHAMPTON	P: (519) 373-1398  F: (519) 797-3080	14:18	" "		
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-420-7389	X  no ANSWER	" "		X

Waste Reference # AW01 900431

Operator name: DAVE NOBLE

Operator signature: Dave Noble Position: OIC

# Fax Broadcast Report

Date & Time : FEB-26-2017 12:18 SUN  
Fax Number : 519-534-3526  
Name : Warton Treatment Plant  
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	5193766310	02-26 12:15	00'52	004/004	EC	HS	Success
002	5193712905	02-26 12:17	01'31	004/004	G3	HS	Success

## Abbreviations:

HS:Host Send    PL:Polled Local    EC:Error Correct    TS:Terminated by System  
HR:Host Receive    PR:Polled Remote    MP:Mailbox Print    RP:Report  
WS:Waiting Send    MS:Mailbox Save    TU:Terminated by User    G3:Group3

# Fax Broadcast Report

Date & Time : FEB-26-2017 10:21 SUN  
Fax Number : 519-534-3526  
Name : Wiarton Treatment Plant  
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	18194207380	02-26 10:05	00' 25	004/004	EC	HS	Success
002	15197973080	02-26 10:06	00' 30	004/004	EC	HS	Success
003	5195344976	02-26 10:07	00' 22	004/004	EC	HS	Success
004	15193766310	02-26 10:08	00' 00	000/004	EC	HS	Fail
005	15193712905	02-26 10:09	00' 00	000/004	EC	HS	Fail
006	18002686061	02-26 10:11	01' 55	002/004	EC	HS	Fail
007	15193766310	02-26 10:13	00' 00	000/004	EC	HS	Fail
008	15193712905	02-26 10:14	00' 00	000/004	EC	HS	Fail
009	18002686061	02-26 10:15	02' 01	003/004	EC	HS	Fail
010	15193766310	02-26 10:18	00' 00	000/004	EC	HS	Fail
011	15193712905	02-26 10:19	00' 00	000/004	EC	HS	Fail
012	18002686061	02-26 10:20	00' 24	001/004	EC	HS	Success

## Abbreviations:

HS:Host Send      PL:Polled Local      EC:Error Correct      TS:Terminated by System  
HR:Host Receive    PR:Polled Remote    MP:Mailbox Print      RP:Report  
WS:Waiting Send    MS:Mailbox Save    TU:Terminated by User    G3:Group3



# WIARTON WASTEWATER TREATMENT PLANT

## QUARTERLY BYPASS REPORT

For the period of  
APRIL 1, 2017 TO JUNE 30, 2017

As per the Amended Environmental Compliance Approval (number 6211-AGEU4W, issued on February 24, 2017), we are required to submit a summary report of the bypass events 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.

### Bypass Events

A by-pass event is defined as “a diversion of sewage around one or more unit processes within the Sewage Treatment Plant with the diverted sewage flows being returned to the Sewage Treatment Plant treatment train upstream of the Final Effluent sampling location, and discharging to the environment through the Sewage Treatment Plant outfall”

- During this period one bypass event occurred on June 13, 2017 at 08:55h.

Date	Time		Duration	Volume	Treatment Process Bypassed	Reason for Bypass
	Start	End	HH:MM	(M <sup>3</sup> )		
June 13, 2017	08:55	09:10	0:15	6.04	UV System	Power outage caused UV system to fail

### Overflow Events

An overflow event is defined as “a discharge to the environment from the Sewage Treatment Plant at a location other than the plant outfall or into the plant outfall downstream of the Final Effluent sampling location”

- No overflow events took place during this period

**Warton Water Treatment Plant**  
897, Bayview Street, Warton, ON, NOH 2T0  
TEL: 519.534.1610 Fax: 519.534.3526



**Ontario Clean Water Agency**  
Agence Ontarienne Des Eaux

# Fax

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	<u>Fax Number</u>
TO: Spills Action Centre:	1-800-268-6061
MOE Owen Sound:	519-371-2905
MOH Owen Sound:	519-376-6310
Town of South Bruce Peninsula (Attention Public Works Manager)	519-534-4976
OCWA (Attention PCT)	519-797-3080
Environment Canada {Attention Wastewater Program)	1-819-420-7380

FROM: Leo-Paul Frigault

DATE: June 13<sup>th</sup>, 2017 -----

RE: -----

PAGES: 4 (including this one)

MESSAGE:

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If you have any questions, concerns, or require additional information, please  
contact this office at 519-534-1610

FACILITY NAME: Warton Wastewater Control Plant

WORKS#: WW 110000819

LOCATION: Warton Filter BLDG

DATE/TIME -

START: 08:55

STOP: 09:10

TOTAL TIME: 15 (minutes)

OPERATOR RESPONDING: Ben Madill OIC  OIT  ORO (circle one) IF OIT- WHO IS IN CHARGE FOR PROCESS CHANGES? David Noble

BRIEF DESCRIPTION OF SITUATION: Power outage (very brief)

REASON FOR OCCURRENCE: Weather (thunder)

WAS THIS A BYPASS?  YES  NO

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: \_\_\_\_\_

WHAT WAS DISCHARGED? filtered effluent



APPROXIMATE QUANTITY OF BYPASS: ----- LITRES/ Kg/(m<sup>3</sup>) (circle one) SHOW

CALCULATIONS:

flow approx: 580m<sup>3</sup>/day  
outage 15 min

approx 6m<sup>3</sup>

WERE SAMPLES TAKEN? YES  NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl <sub>2</sub> (mg/L)	TOTAL Cl <sub>2</sub> (mg/L)

- YES  NO  SAMPLES TAKEN (BOD SS PHOSPHOROUS E.COLI)
- YES  NO  DISINFECT BYPASS
- YES  NO DID RELEASE ENTER WATER COURSE
- YES  NO  DID RELEASE GO OFFSITE

NOTES:

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NOTIFICATIONS:

PLACE	NUMBERS	VERBAL COMPLETE?	WRITTEN COMPLETE?	RESOLUTION COMPLETE?	CONTACT NAME
SAC  (get reference number from them)	P: 1-800-268-6060  F: 1-800-268-6061	13:00			Francisco Baldison
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	13:07			Shayn Finlay
OWEN SOUND MOH	P: 519-376-9420  ONCALL: P: 519-376-5420  F: 519-376-6310				13:09 - message left for Josh Koerman " for Jennifer Stephenson 10:00 June 14, spoke with Josh Koerman
CLIENT TOWN OF SOUTH BRUCE PENINSULA  MANAGER	P: 519-534-1400 X 131 Public Works Manager F: 519-534-4976  P: 519-379-2225 F: 519-534-3526	13:12			Andrew Sprunt
OCWA PCT SOUTHAMPTON	P: (519) 373-1398  F: (519) 797-3080	13:13			Left a message in Megan Edney
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-420-7389	X			X

Waste Reference # 901115

Operator name: Ben Madill

Operator signature: *Ben Madill* Position: OIT

\*Confirmed with manager + David Noble

# Fax Broadcast Report

Date & Time : JUN-14-2017 13:54 WED  
Fax Number : 519-534-3526  
Name : Wiarton Treatment Plant  
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	18194207380	06-14 13:48	00'25	004/004	EC	HS	Success
002	5195344976	06-14 13:49	00'23	004/004	EC	HS	Success
003	5193766310	06-14 13:50	00'52	004/004	EC	HS	Success
004	5193712905	06-14 13:51	00'53	004/004	EC	HS	Success
005	18002686061	06-14 13:52	00'53	004/004	EC	HS	Success

## Abbreviations:

HS:Host Send      PL:Polled Local      EC:Error Correct      TS:Terminated by System  
HR:Host Receive    PR:Polled Remote    MP:Mailbox Print      RP:Report  
WS:Waiting Send    MS:Mailbox Save    TU:Terminated by User    G3:Group3

# WIARTON WASTEWATER TREATMENT PLANT

## QUARTERLY BYPASS/OVERFLOW REPORT

For the period of

JULY 1, 2017 TO SEPTEMBER 30, 2017

As per the Amended Environmental Compliance Approval (number 6211-AGEU4W, issued on February 24, 2017), we are required to submit a summary report of the bypass events 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.

### Bypass Events

A by-pass event is defined as “a diversion of sewage around one or more unit processes within the Sewage Treatment Plant with the diverted sewage flows being returned to the Sewage Treatment Plant treatment train upstream of the Final Effluent sampling location, and discharging to the environment through the Sewage Treatment Plant outfall”

- During this period three bypass events occurred; July 10 at 07:50h, September 27 at 09:00h, and September 29 at 13:10h.

Waste Reference #	Date	Time		Duration	Volume	Treatment Process Bypassed	Reason for Bypass
		Start	End	HH:MM	(M <sup>3</sup> )		
5528-AP5PE9	July 10, 2017	07:50	09:50	2:00	89.5	UV	Power bump/phase loss blew ballast on UV
901552	September 27, 2017	09:01	09:26	0:25	8.7	UV	Power outage/phase loss
1443-ARNPC2	September 29, 2017	13:10	13:50	0:40	22.2	UV	Power outage

### Overflow Events

An overflow event is defined as “a discharge to the environment from the Sewage Treatment Plant at a location other than the plant outfall or into the plant outfall downstream of the Final Effluent sampling location”

- During this period one overflow event occurred on July 13, 2017 at 14:42h.

Environmental Incident #	Date	Time		Duration	Volume	Treatment Process	Reason for Bypass	Samples
		Start	End	HH:MM	(M <sup>3</sup> )			
901318	July 13, 2017	14:42	15:12	0:30	18	PS1 – RAW SEWAGE	Heavy rains – 2 pumps at PS1 were overloaded	SGS Laboratory Results CA13425 & CA14414

Warton Water Treatment Plant  
897, Bayview Street, Warton, ON, NOH 2TO  
TEL: 519.534.1610 Fax: 519.534.3526



**Ontario Clean Water Agency**  
Agence Ontarienne Des Eaux

# Fax

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	<u>Fax Number</u>
TO: Spills Action Centre:	1-800-268-6061
MOE Owen Sound:	519-371-2905
MOH Owen Sound:	519-376-6310
Town of South Bruce Peninsula (Attention Public Works Manager)	519-534-4976
OCWA (Attention PCT)	519-797-3080
Environment Canada {Attention Wastewater Program}	1-819-420-7380

FROM: Ben Madik OIT OCWA

DATE: July 10<sup>th</sup> 2017

RE: AW01-5528-AP5PE9

PAGES: 4 (including this one)

MESSAGE:

Power bump/phase loss caused balast to fail on UV,  
was off for 2 hours until repaired.

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If you have any questions, concerns, or require additional information, please  
contact this office at 519-534-1610

FACILITY NAME: Warton Wastewater Control Plant

WORKS#: WW 110000819

LOCATION: Filter building

DATE/TIME -

START: 07:50

STOP: 09:50

TOTAL TIME: 2 hours

OPERATOR RESPONDING: ----- OIC  OIT  ORO (circle one) IF OIT- WHO IS IN CHARGE FOR PROCESS CHANGES? Andrew Bellamy

BRIEF DESCRIPTION OF SITUATION: Power bump/phase loss blew ballast on uv

REASON FOR OCCURRENCE: Power bump/phase loss

WAS THIS A BYPASS?  YES  NO

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: \_\_\_\_\_

WHAT WAS DISCHARGED? Filtered /disinfected effluent

APPROXIMATE QUANTITY OF BYPASS: ----- LITRES/ Kg/m<sup>3</sup> (circle one) SHOW

CALCULATIONS:

$$1074 \text{ m}^3 / 24 \text{ hrs}$$

$$= 44.75 \text{ m}^3 / \text{hr}$$

$$= 89.5 \text{ m}^3 / 2 \text{ hrs}$$

89.5 m<sup>3</sup> Total bypass

WERE SAMPLES TAKEN?  YES  NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl <sub>2</sub> (mg/L)	TOTAL Cl <sub>2</sub> (mg/L)
Fitter bldg	July 16th	0930		/	0.02

YES  NO  SAMPLES TAKEN (BOD SS PHOSPHOROUS E.COLI)

YES  NO  DISINFECT BYPASS

YES  NO  DID RELEASE ENTER WATER COURSE

YES  NO  DID RELEASE GO OFFSITE

NOTES:

OIC/Electrification - Andrew Bellomy installed new ballast/on-line now

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NOTIFICATIONS:

PLACE	NUMBERS	VERBAL COMPLETE?	WRITTEN COMPLETE?	RESOLUTION COMPLETE?	CONTACT NAME
SAC  (get reference number from them)	P: 1-800-268-6060  F: 1-800-268-6061	14:20			Johnathan Tse
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	14:22			Shayne Findlay
OWEN SOUND MOH	P: 519-376-9420  ONCALL: P: 519-376-5420  F: 519-376-6310	14:30			Jennifer Scott Program assst.
CLIENT TOWN OF SOUTH BRUCE PENINSULA  MANAGER	P: 519-534-1400 X 131 Public Works Manager F: 519-534-4976	14:32			voicemail for Andrew sprunt P.W Manager
MANAGER	P: 519-379-2225 F: 519-534-3526	14:00			Leo-Paul
OCWA PCT SOUTHAMPTON	P: (519) 373-1398  F: (519) 797-3080	14:34			Camille Leung PCT manager
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-420-7389	X			X

Waste Reference # 5528-APSPE9

Operator name: Ben Madrik

Operator signature:  Position: OIT

# Fax Broadcast Report

Date & Time : JUL-10-2017 14:43 MON  
Fax Number : 519-534-3526  
Fax Name : Wiarton Treatment Plant  
el Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	5195344976	07-10 14:38	00'23	004/004	EC	HS	Success
002	5193766310	07-10 14:39	00'58	004/004	EC	HS	Success
003	5193712905	07-10 14:41	00'54	004/004	EC	HS	Success
004	18002686061	07-10 14:42	00'54	004/004	EC	HS	Success

## Abbreviations:

HS:Host Send    PL:Polled Local    EC:Error Correct    TS:Terminated by System  
HR:Host Receive    PR:Polled Remote    MP:Mailbox Print    RP:Report  
WS:Waiting Send    MS:Mailbox Save    TU:Terminated by User    G3:Group3



► **Fax: Environmental Incident – Overflow (Sewage)**

CONTACT	FAX NUMBER/ E-MAIL
Spills Action Centre (SAC)	<a href="mailto:moe.sac.moe@ontario.ca">moe.sac.moe@ontario.ca</a> 1-800-268-6061
MOECC (Owen Sound) Shayne Finlay	519-371-2905 <a href="mailto:shayne.finlay@ontario.ca">shayne.finlay@ontario.ca</a>
MOH (Owen Sound) – Grey Bruce Health Unit	519-376-6310

**FROM:** Megan Edney, Process Compliance Technician  
**DATE:** July 14, 2017  
**RE:** Environmental Incident #901318 – Pump Station 1 Overflow  
**PAGES:** 4 (including this page)

**Comments:**

Please see attached for Environmental Incident Report

**Spill #:** 901318

**Facility:** Warton WPCP

**Client:** Municipality of South Bruce Peninsula

**Senior Operations Manager:** Leo-Paul Frigault

# Ontario Clean Water Agency Environmental Incident Report

Facility ID: 5620 EIncidentReport  
Facility Name: Warton Wastewater Treatment Lagoon  
Address: 441048 Elm St  
City: Warton  
Province: Ontario  
Postal Code: NOH 2T0  
Date of Occurrence: 07/13/2017  
Time of Occurrence: 02:51:58 PM

### Nature of the Incident

Level 1 Contingency  Level 2 Contingency  Level 3 Contingency [Click here To Show the Definitions](#)

Incident affected:  Air  Water  Land  Nothing

What was discharged or emitted?

- |  |  |
|--|--|
| <input type="checkbox"/> Chlorine                              | <input type="checkbox"/> Oil/Diesel/Gas                                |
| <input type="checkbox"/> Sodium Hypochlorite                   | <input checked="" type="checkbox"/> Untreated or partly treated sewage |
| <input type="checkbox"/> Calcium Chloride                      | <input type="checkbox"/> Odours  |
| <input type="checkbox"/> Aluminum Compounds (Specify in Other) | <input type="checkbox"/> Water   |
| <input type="checkbox"/> Arsenic                               | <input type="checkbox"/> Iron Coagulants                               |
| <input type="checkbox"/> Fluoride                              |  |

Other: \_\_\_\_\_

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

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

If a gas, approximately what quantity was released?: \_\_\_\_\_

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

What was the source of release?:

Pump station 1 - heavy rainfall overloading the two pumps at PS1. Operators arrived onsite after alarm call of high alarm in wet well. Level of wet well rose quickly, although haulers contacted to assist with transferring fluid to the wastewater plant overflow could not be avoided. Overflow occurred from 1442 to 1512h.

Where did the release go?:

Pump station 1 overflow - overflows into a storm drain that flows into Colpoy's Bay

If it entered a watercourse:  Yes  No

If it went off site:  Yes  No

Duration of the release?: 30 mins

Is the release now stopped?:  Yes  No

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

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

**Action(s) Taken**

What actions were taken to control the incident?

Haulers contacted to assist in transferring sewage to wastewater treatment plant. Operators onsite monitoring wet well levels and pump operation at pump station 1. Pumps 1 and 2 were put into manual mode to ensure pumps ran continuously. Samples were grabbed from the pump station wet well at 15:05h, operators unable to grab samples from overflow outfall. Hauler (Vaughan) arrived onsite at 15:10h and started hauling sewage from pump station 1. Haulers continued to transfer loads until 1830h when wet well level returned to normal operating levels. Hauler transferred 6 loads of approximately 13 m3 to the Warton WWTP (total volume transferred by Vac truck ~78m3).

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?

1500h - contacted SAC - Jerome Price-Todd (Environmental Officer) informed him that the overflow started at 14:42h. Pump Station 1 (526 Taylor St) overflow was ongoing at the time - unable to provide volumes or end time. Informed him that samples are going to be grabbed.  
15:30h - contacted Owen Sound District Office - Shayne Finlay (Drinking Water Inspector)- informed him of overflow (times, location, and response actions). did not have volumes to provide him with.  
1555h - contacted SAC - Justin (Environmental Officer) to update with the end time and total volume.  
1635h - contacted Owen Sound District Office - Shayne Finlay - to update with end time and total volume.

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

If "Yes", which office/location and who was the contact?: Shayne Finlay - Owen Sound - MOECC Office

Was it reported to MOE SAC?:  Yes  No

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

1500h - contacted Jerome Price-Todd (Environmental Officer) informed him that the overflow started at 14:42h. Pump Station 1 (526 Taylor St) overflow was ongoing at the time - unable to provide volumes or end time. Informed him that samples are going to be grabbed.  
1555h - contacted SAC - Justin (Environmental Officer) to update with the end time and total volume.

Was it reported to Municipality?:  Yes  No

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

14:49h Leo-Paul Frigault (Senior Operations Manager) contacted Andrew Sprunt (Town of South Bruce Peninsula Public Works Manager) to inform him of overflow.  
15:00h Andrew Sprunt arrived onsite of Pump Station 1.

**External Assistance/Involvement**

Was corporate or area office assistance requested?:  Yes  No

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

Was external emergency assistance requested?:  Yes  No

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

Other: \_\_\_\_\_

Was there any media involvement?:  Yes  No

If "Yes", who?: \_\_\_\_\_

Was the public affected?:  Yes  No

If "Yes", how?: \_\_\_\_\_

Updated By: Megan Edney 07/14/2017 07:40:18 AM

**Comments:**

15:15h MOH - informed Maggie of spill and she informed me that the health inspector would call back if they require any additional steps to be taken.

# Fax Broadcast Report

Date & Time : JUL-14-2017 08:36 FRI  
Fax Number : 519-534-3526  
Fax Name : Warton Treatment Plant  
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	18002686061 SAC	07-14 08:31	01'02	004/004	EC	HS	Success
002	5193712905 MDR - Owen Sound	07-14 08:33	01'02	004/004	EC	HS	Success
003	5193766310 MCH - GBH	07-14 08:34	01'01	004/004	EC	HS	Success

## Abbreviations:

HS: Host Send      PL: Polled Local      EC: Error Correct      TS: Terminated by System  
HR: Host Receive    PR: Polled Remote    MP: Mailbox Print      RP: Report  
WS: Waiting Send    MS: Mailbox Save    TU: Terminated by User    G3: Group3

Warton Water Treatment Plant  
897, Bayview Street, Warton, ON, NOH 2T0  
TEL: 519.534.1610 Fax: 519.534.3526



**Ontario Clean Water Agency**  
Agence Ontarienne Des Eaux

# Fax

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	<u>Fax Number</u>
TO: Spills Action Centre:	1-800-268-6061
MOE Owen Sound:	519-371-2905
MOH Owen Sound:	519-376-6310
Town of South Bruce Peninsula (Attention Public Works Manager)	519-534-4976

Environment Canada  
{Attention Wastewater Program)

1-819-420-7380

FROM: Megan Edney

DATE: Sept 07, 2017

RE: Partial Bypass: Warton WPER

PAGES: 4 (including this one)

MESSAGE:

Power Outage - caused UV system to fail  
operator shutdown flow when they arrived onsite

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If you have any questions, concerns, or require additional information, please  
contact this office at 519-534-1610



FACILITY NAME: Warton Wastewater Control Plant

WORKS#: WW 11000819

LOCATION: Filter bldg, 441048 Elm St.DATE/TIME - September 27, 2017START: 0901h.STOP: 0926hTOTAL TIME: 25 minsOPERATOR RESPONDING: Andrew Bellamy  OIC  OIT  ORO (circle one) IF OIT- WHO  
IS IN CHARGE FOR PROCESS CHANGES? \_\_\_\_\_BRIEF DESCRIPTION OF SITUATION: VV System failure Partial Bypass  
Power Outage → Phase LossREASON FOR OCCURRENCE: Power Outage → Phase LossWAS THIS A BYPASS?  YES  NO

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

 PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: \_\_\_\_\_

WHAT WAS DISCHARGED? Filtered Lagoon Effluent

APPROXIMATE QUANTITY OF BYPASS: 8.7 LITRES/ Kg/m<sup>3</sup> (circle one) SHOW

CALCULATIONS:  
25 mins

$$500 \text{ m}^3/\text{day} \div 24 \text{ hrs/day} \div 60 \text{ mins/hr} = 0.347 \text{ m}^3/\text{min}$$

$$8.68 \text{ m}^3$$

WERE SAMPLES TAKEN? YES  NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl <sub>2</sub> (mg/L)	TOTAL Cl <sub>2</sub> (mg/L)

YES  NO  SAMPLES TAKEN (BOD SS PHOSPHOROUS E.COLI)

YES  NO  DISINFECT BYPASS

YES  NO DID RELEASE ENTER WATER COURSE

YES  NO DID RELEASE GO OFFSITE

NOTES:

Power outage (Rain) → UV system failed

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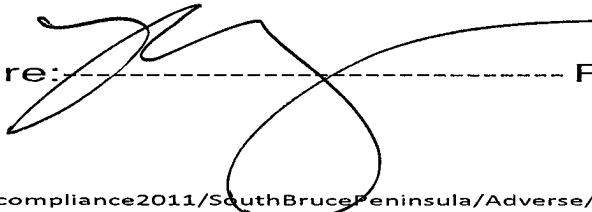
---

NOTIFICATIONS:

PLACE	NUMBERS	VERBAL COMPLETE?	WRITTEN COMPLETE?	RESOLUTION COMPLETE?	CONTACT NAME
SAC  (get reference number from them)	P: 1-800-268-6060 F: 1-800-268-6061	1020h.	1135h	1030h	Julianne <del>Dominicai</del> Fatima Jabcen
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	1125	1135h	1030h	Shayne Finlay
OWEN SOUND MOH	P: 519-376-9420  ONCALL: P: 519-376-5420  F: 519-376-6310	LM: 1030h  1127h	1135h	1030h	Jennifer Scott
CLIENT TOWN OF SOUTH BRUCE PENINSULA	P: 519-534-1400 X 131 Public Works Manager F: 519-534-4976	0955	1135h	1030h	Andrew Sprunt
MANAGER	P: 519-379-2225 F: 519-534-3526	1025	1135h	1030h	Leo-Paul Frigault
OCWA PCT SOUTHAMPTON	P: (519) 373-1398  F: (519) 797-3080	0925	1135h	1030h	Megan Edney
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-420-7389	X	1135h	1030h	X

Waste Reference # 901552

Operator name: Megan Edney

Operator signature:  Position: PCT

# Fax Broadcast Report

Date & Time : SEP-27-2017 11:37 WED  
Fax Number : 519-534-3526  
Fax Name : Warton Treatment Plant  
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	5195344976	09-27 11:31	00'24	004/004	EC	HS	Success
002	18002686061	09-27 11:32	00'56	004/004	EC	HS	Success
003	5193712905	09-27 11:33	01'33	004/004	G3	HS	Success
004	5193766310	09-27 11:35	00'55	004/004	EC	HS	Success
005	18194207380	09-27 11:36	00'26	004/004	EC	HS	Success

## Abbreviations:

HS:Host Send    PL:Polled Local    EC:Error Correct    TS:Terminated by System  
HR:Host Receive    PR:Polled Remote    MP:Mailbox Print    RP:Report  
WS:Waiting Send    MS:Mailbox Save    TU:Terminated by User    G3:Group3

Warton Water Treatment Plant  
897, Bayview Street, Warton, ON, N0H 2T0  
TEL: 519.534.1610 Fax: 519.534.3526



Ontario Clean Water Agency  
Agence Ontarienne Des Eaux

# Fax

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	<u>Fax Number</u>
TO: Spills Action Centre:	1-800-268-6061
MOE/Owen Sound:	519-371-2905
MOH Owen Sound:	<del>519-376-0980</del> Fax Machine Broken will send by email
Town of South Bruce Peninsula {Attention <del>Tom Gray</del> Karen Cameron	519-534-4976
<del>OCWA</del> {Attention PCT}	<del>1-519-941-1794</del>
Environment Canada {Attention Wastewater Program}	1-819-420-7380

FROM: Megan Edney

DATE: September 29, 2017

RE: Partial Bypass #1443-ARNPC2

PAGES: 4 (including this one)

MESSAGE:

Warton WWTP: Partial Bypass (No UV treatment)  
of effluent.

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If you have any questions, concerns, or require additional information, please  
contact this office at 519-534-1610

FACILITY NAME: Warton Wastewater Control Plant

WORKS#: WW 110000819

LOCATION: Filter bldg, 441048 Elm St

DATE/TIME - September 29, 2017

START: 1310h

STOP: 1350h

TOTAL TIME: 40 mins

OPERATOR RESPONDING: Andrew Bellamy OIC OIT  (circle one) IF OIT- WHO IS IN CHARGE FOR PROCESS CHANGES? \_\_\_\_\_

BRIEF DESCRIPTION OF SITUATION: Power No UV treatment (partial Bypass)

REASON FOR OCCURRENCE: Power Outage / Phase Loss

WAS THIS A BYPASS?  YES  NO

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: \_\_\_\_\_

WHAT WAS DISCHARGED? Filtered Lagoon Effluent

APPROXIMATE QUANTITY OF BYPASS: 22.2 LITRES/ Kg  m<sup>3</sup> (circle one) SHOW

CALCULATIONS:  
 40mins 800 m<sup>3</sup>/day  
= 0.55 m<sup>3</sup>/min  
= 22.2 m<sup>3</sup>

WERE SAMPLES TAKEN? YES  NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl <sub>2</sub> (mg/L)	TOTAL Cl <sub>2</sub> (mg/L)

YES  NO  SAMPLES TAKEN (BOD SS PHOSPHOROUS E.COLI)

YES  NO  DISINFECT BYPASS

YES  NO DID RELEASE ENTER WATER COURSE

YES  NO DID RELEASE GO OFFSITE

NOTES:

Operator called out & shutdown flow  
through the filter building until power is  
restored.

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NOTIFICATIONS:

PLACE	NUMBERS	VERBAL COMPLETE?	WRITTEN COMPLETE?	RESOLUTION COMPLETE?	CONTACT NAME
SAC  (get reference number from them)	P: 1-800-268-6060 F: 1-800-268-6061	1418h	1500		Marc Lamirande
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	1420h	"		Shayne Finlay
OWEN SOUND MOH	P: 519-376-9420  ONCALL: P: 519-376-5420  F: 519-376-0980	1428h	"		Jennifer Scott
CLIENT TOWN OF SOUTH BRUCE PENINSULA MANAGER	P: 519-534-1400 <del>X 131 TOM GRAY</del> X 130 Karen F: 519-534-4976  P: 519-534-1610 F: 519-534-3526	LM-1430h  1440h	"		Karen Cameron
OCWA ORANGEVILLE PCT	P: <del>1-888-214-6987</del> X 230 PCT or <del>LISA X 225</del>  F: 519-941-1794	1353h	"		Leo-Paul Frigault Megan Edney
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-420-7380	X	"		X

Waste Reference # 1443-ARNPC2

Operator name: Megan Edney

Operator signature: [Signature] Position: PCT



# Fax Broadcast Report

Date & Time : SEP-29-2017 03:04PM FRI  
Fax Number : 5197973080  
Fax Name : ONT CLEAN WATER SOUTHAMPTON  
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	918194207380	09-29 02:56PM	00' 24	004/004	EC	HS	Success - ENVCAN
002	95195344976	09-29 02:57PM	00' 00	000/004	EC	HS	Fail
003	95193712905	09-29 02:59PM	01' 33	004/004	G3	HS	Success - MDE ONA SOUND
004	918002686061	09-29 03:01PM	00' 56	004/004	EC	HS	Success
005	95195344976	09-29 03:02PM	00' 00	000/004	EC	HS	Fail - SAC
006	95195344976	09-29 03:03PM	00' 00	000/004	EC	HS	Fail

## Abbreviations:

HS: Host Send      PL: Polled Local      EC: Error Correct      TS: Terminated by System  
HR: Host Receive    PR: Polled Remote    MP: Mailbox Print      RP: Report  
WS: Waiting Send    MS: Mailbox Save    TU: Terminated by User    G3: Group3

# WIARTON WASTEWATER TREATMENT PLANT

## QUARTERLY BYPASS/OVERFLOW REPORT

For the period of

OCTOBER 1, 2017 TO DECEMBER 31, 2017

As per the Amended Environmental Compliance Approval (number 6045-ARDJS7, issued on November 23, 2017), we are required to submit a summary report of the bypass events 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.

### Bypass Events

A by-pass event is defined as “a diversion of sewage around one or more unit processes within the Sewage Treatment Plant with the diverted sewage flows being returned to the Sewage Treatment Plant treatment train upstream of the Final Effluent sampling location”

- During this period one bypass events occurred; November 6 at 10:40h.

Waste Reference #	Date	Time		Duration	Volume	Treatment Process Bypassed	Reason for Bypass
		Start	End	HH:MM	(M <sup>3</sup> )		
0037-ASUMK4	November 6, 2017	10:40	11:00	0;20	35	UV	Power outage

### Overflow Events

An overflow event is defined as “a discharge to the environment from the Works at a location other than the approved effluent disposal facilities or via the effluent disposal facilities downstream of the Final Effluent sampling location”

- During this period no overflow events occurred.

Environmental Incident #	Date	Time		Duration	Volume	Treatment Process	Reason for Bypass	Samples
		Start	End	HH:MM	(M <sup>3</sup> )			

**Warton Water Treatment Plant**  
897, Bayview Street, Warton, ON, NOH 2T0  
TEL: 519.534.1610 Fax: 519.534.3526



**Ontario Clean Water Agency**  
Agence Ontarienne Des Eaux

# Fax

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	<u>Fax Number</u>
TO: Spills Action Centre:	1-800-268-6061
MOE Owen Sound:	519-371-2905
MOH Owen Sound:	519-376-0980
Town of South Bruce Peninsula	519-534-4976

Environment Canada  
{Attention Wastewater Program}

1-819-420-7380

FROM: Megan Edney

DATE: NOV 6, 2017

RE: Partial Bypass of Filtered Effluent

PAGES: 4 (including this one)

MESSAGE:

\*Power outage caused UV system to fail. → Partial Bypass (No UV treatment)

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If you have any questions, concerns, or require additional information, please  
contact this office at 519-534-1610

FACILITY NAME: Warton Wastewater Control Plant

WORKS#: WW 110000819

LOCATION: 441048 Elm St, Georgian Bluffs

DATE/TIME - ~~Oct~~ November 6/17

START: 1040h

STOP: 1100h

TOTAL TIME: 20 mins

OPERATOR RESPONDING: Ben Madill ----- OIC  OIT  ORO (circle one) IF OIT-WHO IS IN CHARGE FOR PROCESS CHANGES? Andrew Bellamy

BRIEF DESCRIPTION OF SITUATION: Power outage -> partial Bypass

REASON FOR OCCURRENCE: Power outage

WAS THIS A BYPASS?  YES  NO

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: \_\_\_\_\_

WHAT WAS DISCHARGED? Partial filtered Lagoon effluent (No UV treatment)

APPROXIMATE QUANTITY OF BYPASS: --- 35 --- LITRES/ Kg/ m3 (circle one) SHOW

CALCULATIONS:

$$2520 \text{ m}^3/\text{day} \div 24 \text{ hrs/day} \div 60 \text{ mins/hr} \\ = 1.75 \text{ m}^3/\text{min} \times 20 = 35 \text{ m}^3$$

WERE SAMPLES TAKEN? YES  NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl2 (mg/L)	TOTAL Cl2 (mg/L)

YES  NO  SAMPLES TAKEN (BOD SS PHOSPHOROUS E.COLI)

YES  NO  DISINFECT BYPASS

YES  NO DID RELEASE ENTER WATER COURSE

YES  NO DID RELEASE GO OFFSITE

NOTES:

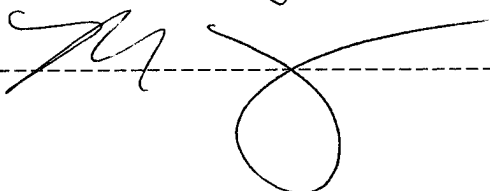
Power outage began at 10:40h on Nov 6, 2017  
 operator arrived to find power restored  
 & UV lights on.

NOTIFICATIONS:

PLACE	NUMBERS	VERBAL COMPLETE?	WRITTEN COMPLETE?	RESOLUTION COMPLETE?	CONTACT NAME
SAC  (get reference number from them)	P: 1-800-268-6060 F: 1-800-268-6061	1143h	1300h	1200h.	Blake Turner
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	1147h	1300h	1200h	Shayne
OWEN SOUND MOH	P: 519-376-9420  ONCALL: P: 519-376-5420  F: 519-376-0980	Lm 1146h	1300h	1200h	maggie engelhardt
CLIENT TOWN OF SOUTH BRUCE PENINSULA	P: 519-534-1400 X 131 <del>Tom Gray</del> Andrew Sprunt. F: 519-534-4976	Lm 1149h	1300h	1200h	Andrew Sprunt
MANAGER	P: 519-534-1610 F: 519-534-3526	Lm-1160h	1300h	1200h	Leo-Paul Frigault
OCWA ORANGEVILLE	P: 1-866-214-6987 X 230 PCT or LISA X 225  F: 519-941-1794	1125h.	1300h	1200h	Megan Edney
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-420-7380	X	1300h	1200h	X

Waste Reference # 0037-ASUMK4

Operator name: Megan Edney

Operator signature:  Position: PCT

# Fax Broadcast Report

Date & Time : NOV-06-2017 02:12PM MON  
 Fax Number : 5197973080  
 Fax Name : ONT CLEAN WATER SOUTHAMPTON  
 Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	918194207380	11-06 02:01PM	00' 25	004/004	EC	HS	Success <i>ENUCAN</i>
002	95195344976	11-06 02:02PM	00' 00	000/004	EC	HS	Fail
003	95193760680	11-06 02:03PM	00' 00	000/004	EC	HS	Fail
004	95193712905	11-06 02:04PM	00' 56	004/004	EC	HS	Success <i>MOECC Owen Search</i>
005	918002686061	11-06 02:06PM	00' 56	004/004	EC	HS	Success <i>SAC</i>
006	95195344976	11-06 02:07PM	00' 00	000/004	EC	HS	Fail
007	95193760680	11-06 02:08PM	00' 00	000/004	EC	HS	Fail
008	95195344976	11-06 02:09PM	00' 00	000/004	EC	HS	Fail
009	95193760680	11-06 02:11PM	00' 00	000/004	EC	HS	Fail

**Abbreviations:**

HS: Host Send      PL: Polled Local      EC: Error Correct      TS: Terminated by System  
 HR: Host Receive   PR: Polled Remote   MP: Mailbox Print      RP: Report  
 WS: Waiting Send   MS: Mailbox Save   TU: Terminated by User   G3: Group3

# Fax Confirmation Report

Date & Time : NOV-06-2017 03:58PM MON  
Fax Number : 5197973080  
Fax Name : ONT CLEAN WATER SOUTHAMPTON  
Model Name : WorkCentre 4250

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	95193760980	11-06 03:54PM	01' 38	005/005	EC	HS	Success

## Abbreviations:

HS: Host Send    PL: Polled Local    EC: Error Correct    TS: Terminated by System  
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WS: Waiting Send    MS: Mailbox Save    TU: Terminated by User    G3: Group3

Warton Water Treatment Plant  
897, Bayview Street, Warton, ON, N0H 2T0  
TEL: 519.534.1610 Fax: 519.534.3526



Ontario Clean Water Agency  
Agence Ontarienne Des Eaux

## Fax

	Fax Number
TO: Spills Action Centre:	1-800-268-6061
MOE Owen Sound:	519-371-2905
MOH Owen Sound:	519-376-0980
Town of South Bruce Peninsula	519-534-4976

Environment Canada    1-819-420-7380  
(Attention Wastewater Program)

FROM: Magon Edracy

DATE: Nov 6, 2017

RE: Partial Bypass of Filtered Effluent

PAGES: 4 (including this one)

## MESSAGE:

\*Power outage caused UV system to fail. → Partial Bypass (NO UV treatment)

If you have any questions, concerns, or require additional information, please  
contact this office at 519-534-1610





**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

## **Appendix F**

Septage Receiving Laboratory Results



**SGS Canada Inc.**

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

**Works #:** 110000819

**Project :** PO#017018

14-December-2017

**OCWA-Southampton (Warton WPCP)**

Attn : Megan Edney

**Date Rec. :** 04 December 2017

**LR Report:** CA12073-DEC17

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

**Copy:** #1

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-Holdi ng Tank
Sample Date & Time					30-Nov-17 17:00
Temperature Upon Receipt [°C]	---	---	---	---	7.0
Biochemical Oxygen Demand (BOD5) [mg/L]	04-Dec-17	16:21	11-Dec-17	11:20	1540
Total Suspended Solids [mg/L]	05-Dec-17	11:46	06-Dec-17	15:20	1310
Chemical Oxygen Demand [mg/L]	05-Dec-17	08:41	05-Dec-17	12:52	2920
Ammonia+Ammonium (N) [mg/L]	05-Dec-17	08:02	06-Dec-17	13:21	38.7
Total Kjeldahl Nitrogen [as N mg/L]	06-Dec-17	06:31	14-Dec-17	10:02	60.2
Phosphorus (total) [mg/L]	06-Dec-17	09:00	07-Dec-17	14:36	15.3
Isopropyl Alcohol [mg/L]	08-Dec-17	08:32	12-Dec-17	15:05	< 5
Methyl alcohol [mg/L]	08-Dec-17	08:32	12-Dec-17	15:05	< 5
Acetone [µg/L]	06-Dec-17	16:43	08-Dec-17	13:49	< 300
Benzene [µg/L]	06-Dec-17	16:43	08-Dec-17	13:49	< 5
Ethylbenzene [µg/L]	06-Dec-17	16:43	08-Dec-17	13:49	< 5
Methylene Chloride [ug/L]	06-Dec-17	16:43	08-Dec-17	13:49	< 5
Methyl ethyl ketone [µg/L]	06-Dec-17	16:43	08-Dec-17	13:49	< 200
Toluene [µg/L]	06-Dec-17	16:43	08-Dec-17	13:49	43.7
Xylene (total) [µg/L]	06-Dec-17	16:43	08-Dec-17	13:49	< 5
o-xylene [µg/L]	06-Dec-17	16:43	08-Dec-17	13:49	< 5
m/p-xylene [µg/L]	06-Dec-17	16:43	08-Dec-17	13:49	< 5

Carrie Greenlaw  
Project Specialist  
Environmental Services, Analytical



**SGS Canada Inc.**

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

**Works #:** 110000819

**Project :** PO#017018

08-January-2018

**OCWA-Southampton (Wiarion WPCP)**

Attn : Megan Edney

**Date Rec. :** 29 December 2017

**LR Report:** CA13933-DEC17

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

**Copy:** #1

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-Holding Tank
Sample Date & Time					28-Dec-17 14:30
Temperature Upon Receipt [°C]					3.0
Biochemical Oxygen Demand (BOD5) [mg/L]	29-Dec-17	15:38	03-Jan-18	16:02	1530
Total Suspended Solids [mg/L]	02-Jan-18	14:32	03-Jan-18	20:51	430
Chemical Oxygen Demand [mg/L]	02-Jan-18	12:16	03-Jan-18	09:32	3180
Ammonia+Ammonium (N) [mg/L]	29-Dec-17	15:20	02-Jan-18	15:24	7.8
Total Kjeldahl Nitrogen [as N mg/L]	02-Jan-18	11:52	05-Jan-18	09:16	77.8
Phosphorus (total) [mg/L]	03-Jan-18	08:45	04-Jan-18	12:44	14.3
Isopropyl Alcohol [mg/L]	03-Jan-18	13:06	08-Jan-18	08:38	< 5
Methyl alcohol [mg/L]	03-Jan-18	13:06	08-Jan-18	08:38	< 5
Acetone [ug/L]	29-Dec-17	16:55	04-Jan-18	10:25	< 600
Benzene [ug/L]	29-Dec-17	16:55	04-Jan-18	10:25	< 10
Ethylbenzene [ug/L]	29-Dec-17	16:55	04-Jan-18	10:25	< 10
Methylene Chloride [ug/L]	29-Dec-17	16:55	04-Jan-18	10:25	< 10
Methyl ethyl ketone [ug/L]	29-Dec-17	16:55	04-Jan-18	10:25	< 400
Toluene [ug/L]	29-Dec-17	16:55	04-Jan-18	10:25	39.0
Xylene (total) [ug/L]	29-Dec-17	16:55	04-Jan-18	10:25	< 10
o-xylene [ug/L]	29-Dec-17	16:55	04-Jan-18	10:25	< 10
m/p-xylene [ug/L]	29-Dec-17	16:55	04-Jan-18	10:25	< 10

Volatiles and Alcohols received in EPA vials preserved with Sodium Thi osulphate. Processed with client's approval.



**Carrie Greenlaw**  
Project Specialist  
Environmental Services, Analytical