



Ontario Clean Water Agency Agence Ontarienne Des Eaux

March 31, 2016

John Ritchie, Water Compliance Supervisor
John.S.Ritchie@ontario.ca
Ministry of the Environment and Climate Change
3rd floor, 101 17th Street East
Owen Sound, Ontario
N4K 0A5

**RE: Annual Performance Report, Requirement for Wiarnton Sewage Lagoon System
under Certificate of Approval (C of A) 9441-78RQ8B dated November 9, 2007**

Dear Mr. Ritchie,

The Ontario Clean Water Agency entered into an agreement with the Town of South Bruce Peninsula to operate and maintain the Wiarnton Sewage Lagoon System.

Please see attached for the 2015 Annual Performance Report for the Wiarnton Sewage Lagoon System which covers the reporting period of January 1, 2015 to December 31, 2015. This report was completed in accordance with the requirements set out in condition 10.a. to j. of C of A 9441-78RQ8B.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Leo-Paul Frigault".

Leo-Paul Frigault
Operations Manager
Ontario Clean Water Agency, Georgian Bay Highlands Regional Hub



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

WIARTON SEWAGE LAGOON SYSTEM

ANNUAL PERFORMANCE REPORT

For the period of
JANUARY 1, 2015 TO DECEMBER 31, 2015

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

1. System Description

The Wiarton Sewage Lagoon System began operating in its present configuration in 1999. The facility includes a 3 cell (6 ha.) system that is aerated and operated in series configuration.

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 the recently upgraded #1 pump station located at the intersection of George and Taylor Street. The sewage is then pumped to the #2 pump station located at the intersection of Taylor and Elm Street. From there, the raw sewage is pumped to Cell #1 at the lagoon (south cell) and treated. Coagulant is injected at the #1 pump station to provide precipitation of phosphorous in the lagoons, the discharge from cell #3 is continuous.

In early 2004, the Wiarton Lagoon was upgraded with the addition of a Dynasand effluent filtration system, coagulant addition in the filter building, Ultraviolet Disinfection system, and a septic receiving facility adjacent to the main building. Also included in these upgrades was the addition of a third blower for the aeration cells. Disinfection that utilizes the UV disinfection system is only required from May 15 to September 15.

In 2006, upgrades to Taylor St. pumping station included the installation of two new 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. Upgrades also incorporated the installation of a forcemain air relief and vacuum relief valve in the dry well.

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 Sewage Lagoon System can be found in Table 1 and a summary of the monitoring program can be found in Table 2.

Table 1. Wiarton Sewage Lagoon System Overview

Facility Name	Wiarton Sewage Lagoon System
Facility Type	Aerated Lagoon (3) with pumping stations (2)
Plant Classification	II
Works Number	110000819
Recommended Rated Capacity	2,500 m ³ /day
Number of Households	1,100
Receiving Water	Colpoy's Bay (Georgian Bay)
Certificate of Approval	9441-78RQ8B (Sewage Lagoon System) 3-0709-82-006 (Air)

Table 2. Monitoring Program for C of A 9441-78RQ8B

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

2. Monitoring Data

As per C of A 9441-78RQ8B 10.(6)(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 the works is required.

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 and Table 4. The sampling frequencies either meet or exceed the requirements set out in Section 9 of C of A 9441-78RQ8B.

Table 3. Raw Sewage Monitoring – Sampling Frequencies as Required by Section 9 of C of A 9441-78RQ8B

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

Table 4. Effluent Sampling Monitoring – Sampling Frequencies as Required by Section 9 of C of A 9441-78RQ8B

Parameters	Sample Type	Frequency
CBOD ₅	Composite	Bi-weekly
Total Suspended Solids	Composite	Bi-weekly
Total Phosphorous	Composite	Bi-weekly
Total Kjeldahl Nitrogen	Composite	Bi-weekly
(Ammonia + Ammonium) Nitrogen	Composite	Bi-weekly
E. Coli	Grab	Bi-weekly
pH	Grab	Bi-weekly
Temperature	Grab	Bi-weekly

2.2 Effluent Limits

The effluent limits that are to be met as per Section 6 of C of A 9441-78RQ8B for the Warton Sewage Treatment Lagoon are found in Table 5.

Table 5. Effluent Limits as per Section 6 of C of A 9441-78RQ8B

Effluent Parameter	Monthly Average Concentration (mg/L)	Monthly Average Waste Loading (kg/day)
CBOD ₅	20.0	50.0
Total Suspended Solids	24.0	60.0
Total Phosphorous as P	0.5	1.25
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	

2.3 Comparison of Data to Effluent Limits

Analytical and monitoring data for the Warton Sewage Lagoon System is housed in OCWAs data management system (PDM). Annual and monthly averages for flows, CBOD, BOD₅, Suspended Solids, Total Phosphorous as P, Nitrogen-series and E.coli can be found in Appendix A. Comparisons of analytical data from effluent samples to the effluent limits show the following removal efficiencies:

Table 6. 2015 Effluent Annual Average Concentrations and Removal Efficiencies

Parameter	Annual Average Concentration	Removal Efficiency
CBOD ₅	7.208	91.8%
Total Suspended Solids	12.111	91.8%
Total Phosphorous	0.246	90.5%

The following is a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Table 7.

Table 7. Comparison of Warton Sewage Lagoon System Monitoring Data to Effluent Limits, 2015

	CBOD ₅				Total Suspended Solids				Total Phosphorous as P				E. Coli	
	Monthly Average Concentration (mg/L)	Within Limits (20.0 mg/L)	Monthly Average Loading (kg/d)	Within Limits (50.0 mg/L)	Monthly Average Concentration (mg/L)	Within Limits (20.0 mg/L)	Monthly Average Loading (kg/d)	Within Limits (50.0 mg/L)	Monthly Average Concentration (mg/L)	Within Limits (0.5 mg/L)	Monthly Average Loading (kg/d)	Within Limits (1.25mg/L)	Monthly Geometric Mean Density (mg/L)	Within Limits (200 cfu/ 100 mL)
January	4.5	Y	5.967	Y	10.5	Y	13.924	Y	0.125	Y	0.166	Y	<2	n/a
February	4	Y	4.052	Y	12.5	Y	12.663	Y	0.34	Y	0.344	Y	<2	n/a
March	5	Y	11.041	Y	10	Y	22.082	Y	0.33	Y	0.729	Y	<2	n/a
April	5.5	Y	16.03	Y	8	Y	23.317	Y	0.04	Y	0.117	Y	<2	n/a
May	7	Y	8.864	Y	12	Y	15.196	Y	0.11	Y	0.139	Y	<2	Y
June	26	N	66.797	N	18.333	Y	47.101	Y	0.237	Y	0.608	Y	<2	Y
July	7	Y	6.783	Y	18	Y	17.443	Y	0.145	Y	0.141	Y	<2	Y
August	7	Y	6.239	Y	19	Y	16.935	Y	0.14	Y	0.125	Y	2	Y
September	4	Y	1.47	Y	7	Y	2.572	Y	0.75	N	0.276	Y	<2	Y
October	10.5	Y	10.143	Y	12	Y	11.592	Y	0.355	Y	0.343	Y	<2	n/a
November	4	Y	6.513	Y	10	Y	16.282	Y	0.203	Y	0.331	Y	<2	n/a
December	2	Y	3.82	Y	8	Y	15.278	Y	0.18	Y	0.344	Y	<2	n/a

During the reporting period there were three (3) reportable instances where the sewage lagoon system exceeded the effluent limits set out in the C of A, resulting in non-compliance. These include:

1. COBD₅ - monthly average concentration limit exceeded for June 2015 (26 mg/L vs. limit of 20.0 mg/L)
2. COBD₅ - monthly average loading exceeded for June 2015 (66.8 kg/d vs. limit of 50.0 mg/L)
3. Total Phosphorus - monthly average concentration exceeded for September 2015 (0.75 mg/L vs. limit of 0.5 mg/L)

All incidents were reported to the MOECC, in the form of a verbal notification as well as a formal written notification (refer to Appendix B). Please see below for an excerpt from the written notification:

“As a result of suspected sampling error, the sampling event on June 1st 2015 produced a CBOD₅ level of 56 mg/L. The average of the three samples collected during the month of June 2015 produced a monthly average result 6 mg/L above the effluent limit of 20 mg/L. All other samples taken in June were below the effluent limit, ranging from 8 to 14 mg/L for CBOD₅. The monthly average loading result was also skewed and produced a monthly average result 16.797 kg/d above the effluent limit of 50 kg/d.

In order to mitigate potential future sampling error, proper sampling collection procedures will be reviewed with all operators involved in wastewater treatment system operation and monitoring.

Lagoon cell no.1 was drained in June 2015 to allow for repairs to the aeration system. Once repairs were performed, wastewater flows were redirected to lagoon cell no. 1. During the 30 days when lagoon cell no.1 was being refilled, effluent flow from the lagoon was shut down. Once effluent flow resumed, a composite sample was taken on September 23, 2015 and produced a monthly total phosphorous result 0.25 mg/L above effluent limit. Operators noticed that shortly after the lagoon filter building flow resumed, the Sand Filtration System showed signs of improper sand lifting causing the filters to clog up. From September 30, 2015 to October 8, 2015, the lagoon effluent flow was shut down to allow for air compressor and sand filtration system maintenance. During this period, the lagoon filter building sand filtration system was thoroughly air scoured. Once the effluent flow resumed following this maintenance

period, laboratory analysis results showed that total phosphorous levels were within ECA effluent limit and have remained below effluent limit since.”

Another measure of effluent quality is pH, as per C of A 9441-78RQ8B , the effluent pH is to remain within the range of 6.0 and 9.5 at all times. In 2015, the effluent was within the effluent limits and ranged from 7.72 to 8.22 with an annual average of 8.06. A monthly summary of pH can be found in Table 8

Table 8. Monthly Summary of pH for the Warton Sewage Lagoon System, 2015

	Average	Minimum	Maximum
January	8.14	8.10	8.18
February	8.20	8.18	8.22
March	8.04	8.03	8.04
April	8.14	8.06	8.21
May	7.93	7.72	8.13
June	8.12	8.11	8.13
July	8.19	8.17	8.20
August	8.17	8.17	8.17
September	7.88	7.88	7.88
October	7.96	7.83	8.08
November	7.93	7.85	8.08
December	8.02	7.97	8.06

2.4 Effluent Objectives

The effluent objectives as per Section 6 of C of A 9441-78RQ8B for the Warton Sewage Treatment Lagoon are found in Table 9.

Table 9. Effluent Objectives as per Section 6 of C of A 9441-78RQ8B

Effluent Parameter	Concentration Objective (mg/L)	Waste Loading Objective (kg/day)
CBOD ₅	15.0	37.5
Suspended Solids	15.0	37.5
Total Phosphorous	0.3	0.75
(Ammonia + Ammonium) Nitrogen May 1 to November 30	3.0	7.5
(Ammonia + Ammonium) Nitrogen December 1 to April 30	8.0	20.0

2.5 Comparison of Data to Effluent Objectives

As per C of A 9441-78RQ8B 10.(6)(f) a description of efforts made and results achieved in meeting the effluent objectives of Condition 6 is required.

During the reporting period, the plant effluent was within the effluent objectives 84.4% of the time. Refer to Table 10 for detailed laboratory analysis results in comparison to the effluent objectives. When necessary, additional alum was used to assist in staying within the effluent objectives, particularly for suspended solids and total phosphorous.

Table 10. Comparison of Wiarton Sewage Lagoon System Monitoring Data to Effluent Objectives, 2015

	CBOD₅				Total Suspended Solids				Total Phosphorous as P				(Ammonia + Ammonium) Nitrogen					
	Monthly Average Concentration (mg/L)	Within Objectives (15.0 mg/L)	Monthly Average Loading (kg/d)	Within Objectives (37.5 mg/L)	Monthly Average Concentration (mg/L)	Within Objectives (15.0 mg/L)	Monthly Average Loading (kg/d)	Within Objectives (37.5 mg/L)	Monthly Average Concentration (mg/L)	Within Objectives (0.3 mg/L)	Monthly Average Loading (kg/d)	Within Objectives (0.75 mg/L)	Monthly Average Concentration (mg/L)	Within Objectives, May to November (3.0 mg/L)	Within Objectives, December to April (8.0 mg/L)	Monthly Average Loading (kg/d)	Within Objectives, May to November (7.5 kg/d)	Within Objectives, December to April (20.0 kg/d)
January	4.5	Y	5.967	Y	10.5	Y	13.924	Y	0.125	Y	0.166	Y	6.95	n/a	Y	9.22	n/a	Y
February	4	Y	4.052	Y	12.5	Y	12.663	Y	0.34	N	0.344	Y	10.85	n/a	N	10.99	n/a	Y
March	5	Y	11.041	Y	10	Y	22.082	Y	0.33	N	0.729	Y	13.45	n/a	N	29.70	n/a	N
April	5.5	Y	16.03	Y	8	Y	23.317	Y	0.04	Y	0.117	Y	4.67	n/a	Y	13.60	n/a	Y
May	7	Y	8.864	Y	12	Y	15.196	Y	0.11	Y	0.139	Y	1.20	Y	n/a	1.52	Y	n/a
June	26	N	66.797	N	18.333	N	47.101	N	0.237	Y	0.608	Y	1.60	Y	n/a	4.11	Y	n/a
July	7	Y	6.783	Y	18	N	17.443	Y	0.145	Y	0.141	Y	0.40	Y	n/a	0.39	Y	n/a
August	7	Y	6.239	Y	19	N	16.935	Y	0.14	Y	0.125	Y	0.20	Y	n/a	0.18	Y	n/a
September	4	Y	1.47	Y	7	Y	2.572	Y	0.75	N	0.276	Y	3.10	N	n/a	1.14	Y	n/a
October	10.5	Y	10.143	Y	12	Y	11.592	Y	0.355	N	0.343	Y	3.50	N	n/a	3.38	Y	n/a
November	4	Y	6.513	Y	10	Y	16.282	Y	0.203	Y	0.331	Y	2.70	Y	n/a	4.40	Y	n/a
December	2	Y	3.82	Y	8	Y	15.278	Y	0.18	Y	0.344	Y	2.95	n/a	Y	5.63	n/a	Y

2.6 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 C of A 9441-78RQ8B. Table 11 summarizes the monitoring data for the reporting period.

2.6.1 Flows

The total effluent flow in 2015 was 548,385 m³ with an annual average daily flow of 1,502.4 m³/day, which is 60% of the recommended rated capacity of the system. Total effluent flows in 2015 have decreased in comparison to 2013 and 2014. The daily effluent flow remained within the recommended rated capacity 86% (i.e. 314 out of 365 days) of the time during 2015. A summary of the average and maximum daily flows on a monthly basis can be found in Table 11. 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. For more detailed information regarding flows, refer to Appendix A. Daily flows which exceeded the recommended rated capacity were typically due to snow melt and heavy rains.

Table 11. Average Daily Raw Sewage Flows by Month for 2015

Month	Average Day Flow (m ³)	Maximum Day Flow (m ³)
January	1,326	1,833
February	1,013	1,383
March	2,208	3,830
April	2,914	4,720
May	1,266	1,919
June	2,569	3,904
July	969	1,388
August	891	6,830
September	367	1,841
October	966	2,600
November	1,628	3,413
December	1,909	2,835

2.6.2 TKN

A parameters which is monitored on a regular basis but does not have effluent limits or objectives is TKN. The annual average TKN has increased slightly since 2014 (i.e. 4.75 mg/L in 2014 versus 5.3 mg/L in 2015).

Table 12. Monitoring Parameters as Required by C of A 9441-78RQ8B for Wiarnton Sewage Lagoon System, 2015

Parameters	Average	Minimum	Maximum
Total Kjeldahl Nitrogen (N mg/L)	5.3	0.5	14.7

2.7 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 Wiarnton Sewage Lagoon System is performing adequately and successfully. The system shows a high removal efficiency and was within effluent limits the vast majority of the time, with exceptions caused by suspected sampling error and not from the operation of the system. 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

As per Section 10.(6)(b) of C of A 9441-78RQ8B, a description of any operating problems encountered and corrective actions taken is required. There were no bypasses of raw sewage or spills at the Wiarnton Sewage Lagoon System or any associated pumping station and the sewage lagoon system operated within

its rated capacity. For 2015 an operating challenge was the intermittent power bumps which caused the treated sewage to bypass UV disinfection, the required reporting was completed and Operations staff were able to maintain good overall performance of the sewage lagoon system.

4. Major Maintenance Activities

As per C of A 9441-78RQ8B 10.(6)(c), *a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the works* is required. For 2015, major maintenance activities that occurred include:

- Replacement of four (4) ballasts on Wiarton Lagoon Filter Building Wedeco UV System.
- Replacement of alarm dialers at Wiarton SPS 1 and SPS 2
- Replacement of the power supply on Wiarton Lagoon Filter Building Wedeco UV System.
- Replacement of two (2) pump heads and one (1) cooling element on Wiarton Lagoon Filter Building Ingersoll Rand Dual Head Air Compressor.
- Drained down Lagoon Cell no. to allow for aeration system repairs.
- Repair and replacement of a section of 4" sewer main (approx. 30') and remove upstream manhole

5. Effluent Quality Assurance and Control

As per Section 10.(6)(d) of C of A 9441-78RQ8B, *a summary of any effluent quality assurance or control measures undertaken in the reporting period* is required.

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 HANSEN.

6. Calibration and Maintenance

As per C of A 9441-78RQ8B 10.(6)(e) *a summary of the calibration and maintenance carried out on all effluent monitoring equipment* is required

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 HANSEN, upon completion, Operators sign-off and the work order is considered closed.

On May 7, 2015, Flowmetrix performed an annual third party instrument verification of the final effluent 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 C.

7. Sludge Generation and Handling

As per C of A 9441-78RQ8B 10.(6)(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 where the sludge was disposed* is required.

Since the facility is a sewage lagoon system, sludge was not generated or disposed of. The volume of sludge generated during the reporting period was 0 m³. It is anticipated that 0 m³ of sludge will be produced during 2016.

8. Septage Receiving Works

In 2015, approximately 2,306.75 m³ (507,414 imperial gallons) of sewage was received by the Wiarion Sewage Lagoon System. The sewage was received from various sources including:

- Owen Sound Septic Services
- Grey Bruce Septic Services
- B&L Portable Toilets
- Bluewater Sanitation
- Tom's Septic

The total monthly volume of sewage received can be found in Table 13. Detailed haulage volumes can be found in Appendix D.

Table 13. Total Volume of Sewage Received in 2015

Month	Total Volume of Sewage Received (m ³)
January	188.66
February	163.66
March	209.57
April	200.48
May	186.84
June	202.30
July	283.01
August	306.96
September	157.29
October	141.84
November	61.83
December	204.30

9. Community Complaints

As per C of A 9441-78RQ8B 10.(6)(h) a summary of any complaints received during the reporting period and any steps taken to address the complaints is required.

During 2015, five (5) community complaints for the Wiarion Sewage Lagoon System were received regarding:

- service problems
- water pressure/ no water
- sludge related/ basement flooding

Detailed community complaint reports can be found in Appendix E.

10. By-passes, Spills or Abnormal Discharge Events

As per C of A 9441-78RQ8B 10.(6)(i) a summary of all by-pass, spill or abnormal discharge events is required.

There were no primary treatment bypasses and no abnormal discharge events in 2015 at the Wiarion Sewage Lagoon System.

Due to the requirement set out by Provincial Office Victoria Black (May 2012) to report instances of power loss at the filter building where filtered lagoon effluent does not receive full UV dosage, twelve (12) reports of final effluent (total volume of 423.67 m³) 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 Municipality of Northern Bruce Peninsula and Environment Canada. Refer to Appendix F for detailed by-pass reports.

Appendix A

Performance Assessment Report

Ontario Clean Water Agency
Performance Assessment Report Wastewater/Lagoon

Report extracted 03/29/2016 12:16

From: 01/01/2015 to 31/12/2015

Facility: [5620] WIARTON WASTEWATER TREATMENT LAGOON

Works: [5620] WIARTON WASTEWATER TREATMENT LAGOON

	01/2015	02/2015	03/2015	04/2015	05/2015	06/2015	07/2015	08/2015	09/2015	10/2015	11/2015	12/2015	<--Total-->	<--Avg.-->	<--Max.-->	<--Criteria-->
Flows:																
Raw Flow: Total - Raw Sewage (m³)	38521	28189	72458	84693	40929	36325	32047	37934	32271	28570	46261	54493	532691			
Raw Flow: Avg - Raw Sewage (m³/d)	1242.61	1006.75	2337.35	2823.1	1320.29	1210.83	1033.77	1223.68	1075.7	921.61	1542.03	1757.84		1457.96		
Raw Flow: Max - Raw Sewage (m³/d)	1827	1569	3837	6116	2118	2188	1259	2696	2479	1544	3305	2630			6116	
Eff. Flow: Total - Effluent (m³)	41109	28364	68453	87438	39257	77074	30040	27630	11024	29946	48847	59203	548385			
Eff. Flow: Avg - Effluent (m³/d)	1326.1	1013	2208.16	2914.6	1266.35	2569.13	969.03	891.29	367.47	966	1628.23	1909.77		1502.43		
Eff. Flow: Max - Effluent (m³/d)	1833	1383	3830	4720	1919	3904	1388	6830	1841	2600	3413	2835			6830	
Carbonaceous Biochemical Oxygen Demand: CBOD:																
Raw: Avg cBOD5 - Raw Sewage (mg/L)	121	183	121	77	62	200	59	147	< 40	193	< 20	39		< 105.167	200	
Raw: # of samples of cBOD5 - Raw Sewage	1	1	1	1	1	1	1	1	1	1	1	1	12			
Eff: Avg cBOD5 - Effluent (mg/L)	4.5	< 4	5	< 5.5	7	26	7	7	< 4	< 10.5	< 4	< 2		< 7.208	26	20
Eff: # of samples of cBOD5 - Effluent	2	2	2	2	2	3	2	1	1	2	3	2	24			
Loading: cBOD5 - Effluent (kg/d)	5.967	< 4.052	11.041	< 16.03	8.864	66.797	6.783	6.239	< 1.47	< 10.143	< 6.513	< 3.82		< 12.31	66.797	
Percent Removal: cBOD5 - Raw Sewage (mg/L)	96.281	97.814	95.868	92.857	88.71	87	88.136	95.238	< 90	94.56	< 80	94.872		91.778	97.814	
Biochemical Oxygen Demand: BOD5:																
Raw: Avg BOD5 - Raw Sewage (mg/L)	4090													4090	4090	
Raw: # of samples of BOD5 - Raw Sewage	2												2			
Total Suspended Solids: TSS:																
Raw: Avg TSS - Raw Sewage (mg/L)	4092	181	270	96	92	198	154	167	64	135	151	111		475.917	4092	
Raw: # of samples of TSS - Raw Sewage (mg/L)	3	1	1	1	1	1	1	1	1	1	1	1	14			
Eff: Avg TSS - Effluent (mg/L)	10.5	12.5	10	8	12	18.333	18	19	7	12	10	8		12.111	19	24
Eff: # of samples of TSS - Effluent (mg/L)	2	2	2	2	2	3	2	1	1	2	3	2	24			
Loading: TSS - Effluent (kg/d)	13.924	12.663	22.082	23.317	15.196	47.101	17.443	16.935	2.572	11.592	16.282	15.278		17.865	47.101	
Percent Removal: TSS - Raw Sewage (mg/L)	99.743	93.094	96.296	91.667	86.957	90.741	88.312	88.623	89.063	91.111	93.377	92.793		91.81475	99.743	
Total Phosphorus: TP:																
Raw: Avg TP - Raw Sewage (mg/L)	44.597	3.56	4.06	1.4	0.84	3.58	3.22	2.78	2.35	2.24	2.48	2.36		6.122	44.597	
Raw: # of samples of TP - Raw Sewage (mg/L)	3	1	1	1	1	1	1	1	1	1	1	1	14			
Eff: Avg TP - Effluent (mg/L)	0.125	0.34	0.33	0.04	0.11	0.237	0.145	0.14	0.75	0.355	0.203	0.18		0.246	0.75	0.5
Eff: # of samples of TP - Effluent (mg/L)	2	2	2	2	2	3	2	1	1	2	3	2	24			
Loading: TP - Effluent (kg/d)	0.166	0.344	0.729	0.117	0.139	0.608	0.141	0.125	0.276	0.343	0.331	0.344		0.305	0.729	
Percent Removal: TP - Raw Sewage (mg/L)	99.72	90.449	91.872	97.143	86.905	93.389	95.497	94.964	68.085	84.152	91.801	92.373		90.52916667	99.72	
Nitrogen Series:																
Raw: Avg TKN - Raw Sewage (mg/L)	208.767	26.5	29.9	12.8	7.8	24.8	27.1	28.2	5.9	16.2	7	6.3		33.439	208.767	
Raw: # of samples of TKN - Raw Sewage	3	1	1	1	1	1	1	1	1	1	1	1	14			
Eff: Avg TAN - Effluent (mg/L)	6.95	10.85	13.45	4.667	1.2	1.6	0.4	0.2	3.1	3.5	2.7	2.95		4.297	13.45	3.0 - 8.0
Eff: # of samples of TAN - Effluent	2	2	2	3	2	3	2	1	1	2	3	2	25			
Loading: TAN - Effluent (kg/d)	9.216	10.991	29.7	13.601	1.52	4.111	0.388	0.178	1.139	3.381	4.396	5.634		7.021	29.7	
Eff: Avg NO3-N - Effluent (mg/L)	0.785	0.61	0.36	0.76	1.79	1.707	0.17	0.72	0.71	1.54	1.323	1.585		1.005	1.79	
Eff: # of samples of NO3-N - Effluent	2	2	2	2	2	3	2	1	1	2	3	2	24			
Eff: Avg NO2-N - Effluent (mg/L)	< 0.03	< 0.03	< 0.03	0.04	< 0.17	< 0.21	0.04	0.04	< 0.03	0.23	0.207	0.055		< 0.093	0.23	
Eff: # of samples of NO2-N - Effluent	2	2	2	2	2	3	2	1	1	2	3	2	24			
Disinfection:																
Eff: GMD E. Coli - Effluent (cfu/100mL)	2	2	2	2	2	2	2	2	2	2	2	2		2	2	
Eff: # of samples of E. Coli - Effluent	2	2	2	2	2	3	2	1	1	2	3	2	24			

Appendix B

Written Notice to MOECC of Non-Compliances



Ontario Clean Water Agency Agence Ontarienne Des Eaux

NOTIFICATION OF NON-COMPLIANCE

March 30, 2016

Shayne Finlay
Ministry of the Environment and Climate Change
Owen Sound Area Office
101, 17th Street East, 3rd Floor
Owen Sound, ON N4K 6H6
Fax: 519 371 2905

Re: Notification of Non-compliance with ECA Effluent Limit, Wiarion Wastewater Treatment Lagoons

As a result of two (2) non-compliances with effluent limits from the Wiarion Wastewater Treatment Lagoons, we hereby submit this notification in accordance with terms and conditions of Environmental Compliance Approval **9441-78RQ8B** and provisions of the Ontario Water Resources Act and Environmental Protection Act. This written notice confirms the verbal notification provided on March 30, 2016.

The following effluent parameters were exceeded:

Parameter	Date of Non-Compliance (yyyy-mm-dd)	Type of Limit	Type of Sample	Result (Specify Units)	ECA Effluent Limit
CBOD ₅	2015-06-30	Monthly average concentration	Composite	26 mg/L	20 mg/L
CBOD ₅	2015-06-30	Monthly average loading	Composite	66.797 kg/d	50 kg/d
Total Phosphorous as P	2015-09-30	Monthly average concentration	Composite	0.75 mg/L	0.5 mg/L

Comments/Actions Taken:

As a result of suspected sampling error, the sampling event on June 1st 2015 produced a CBOD₅ level of 56 mg/L. The average of the three samples collected during the month of June 2015 produced a monthly average result 6 mg/L above the effluent limit of 20 mg/L. All other samples taken in June were below the effluent limit, ranging from 8 to 14 mg/L for CBOD₅. The monthly average loading result was also skewed and produced a monthly average result 16.797 kg/d above the effluent limit of 50 kg/d.

In order to mitigate potential future sampling error, proper sampling collection procedures will be reviewed with all operators involved in wastewater treatment system operation and monitoring.

Lagoon cell no.1 was drained in June 2015 to allow for repairs to the aeration system. Once repairs were performed, wastewater flows were redirected to lagoon cell no. 1. During the 30 days when lagoon cell no.1 was being refilled, effluent flow from the lagoon was shut down. Once effluent flow resumed, a composite sample was taken on September 23, 2015 and produced a monthly total phosphorous result 0.25 mg/L above effluent limit. Operators noticed that shortly after the lagoon filter building flow resumed, the Sand Filtration System showed signs of improper sand lifting causing the filters to clog up. From September 30, 2015 to October 8, 2015, the lagoon effluent flow was shut down to allow for air compressor and sand filtration system maintenance. During this period, the lagoon filter building sand filtration system was thoroughly air scoured. Once the effluent flow resumed following this maintenance period, laboratory analysis results showed that total phosphorous levels were within ECA effluent limit and have remained below effluent limit since.

An SOP that clearly identifies roles in sample scheduling and data review responsibilities between operation, process and compliance and management will be developed and a threshold limit will be programmed into OCWA's data management system (PDM/WISKI7) which will flag any laboratory results that exceed the effluent limits.

Should you require additional information, please do not hesitate to contact me at 519-534-1610.

Regards,



Leo-Paul Frigault
Operations Manager
Georgian Bay Highlands Regional Hub

cc: Karen Lorente, Regional Manager
Camille Leung, Process and Compliance Technician
Andrew Sprunt, Town of South Bruce Peninsula

Appendix C

Calibration Records

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	A99 11651
		FUSE	On board plug
		PLANT ID	Wiar-ton SPS No1 (Taylor St)
		METER ID	Station Flow
		FIT ID	N/A
		CLIENT TAG	OCWA# 165372
		OTHER	ORG# 5620
VER. BY - FM	Paris Machuk	GPS COORDINATES	N44 44.503 W81 08.018
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 07, 2015
		CAL. FREQUENCY	Annual
		CAL. DUE DATE	May 2016

PROGRAMMING PARAMETERS			FORWARD TOTALIZER INFORMATION		
DIAMETER (DN)	mm	200	AS FOUND	3053764	M3
F.S. FLOW - MAG	LPS	215.7	AS LEFT	3053792	M3
F.S. RANGE - O/P	LPS	200.0	DIFFERENCE	28	M3
CAL. k-FACTOR	GKL	4.50500			
			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
REF. FLOW RATE		0.53	11.31	22.10	43.67	108.37	LPS
MUT [Reading]		0.53	11.38	22.04	43.72	108.45	LPS
MUT [Difference]		0.00	0.07	-0.06	0.05	0.08	LPS
MUT [% Error]		0.00	0.58	-0.27	0.12	0.07	%
mA OUTPUT		4.000	4.905	5.768	7.493	12.670	mA
MUT [Reading]	min. 4.000 mA	4.154	5.047	5.904	7.621	12.772	mA
MUT [Difference]	max. 20.000 mA	0.154	0.142	0.136	0.128	0.102	mA
MUT [% Error]		3.85	2.89	2.36	1.70	0.81	%
TOTALIZER - REF. FLOW RATE						108.375	LPS
TOTALIZER [MUT]						8	M3
TEST TIME						73.59	SECONDS
CALC. TOTALIZER						7.975	M3
ERROR						0.31	%

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	0.13	PASS
	ANALOG METER	AM	N/A	mA OUTPUT	2.32	PASS
	STOP WATCH	SW	YES	TOTALIZER	0.31	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	Wiar-ton 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 07, 2015
		CAL. FREQUENCY	Annual
		CAL. DUE DATE	May 2016

PROGRAMMING PARAMETERS			FORWARD TOTALIZER INFORMATION		
DIAMETER (DN)	mm	250	AS FOUND	7979685	M3
F.S. FLOW - MAG	LPS	339.9	AS LEFT	7979719	M3
F.S. RANGE - O/P	LPS	250.0	DIFFERENCE	34	M3
CAL. K-FACTOR	GKL	4.54400			
			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	-1.31	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
REF. FLOW RATE		-1.31	15.69	32.68	66.68	168.66	LPS
MUT [Reading]		-1.31	15.85	32.73	66.69	168.71	LPS
MUT [Difference]		0.00	0.16	0.05	0.01	0.05	LPS
MUT [% Error]		0.00	1.04	0.14	0.02	0.03	%
mA OUTPUT		4.000	5.004	6.092	8.267	14.794	mA
MUT [Reading]	min. 4.000 mA	4.149	5.154	6.247	8.403	14.899	mA
MUT [Difference]	max. 20.000 mA	0.149	0.150	0.155	0.136	0.105	mA
MUT [% Error]		3.73	3.00	2.55	1.64	0.71	%
TOTALIZER - REF. FLOW RATE						168.656	LPS
TOTALIZER [MUT]						21	M3
TEST TIME						124.16	SECONDS
CALC. TOTALIZER						20.940	M3
ERROR						0.28	%

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	0.31	PASS
	ANALOG METER	AM	N/A	mA OUTPUT	2.32	PASS
	STOP WATCH	SW	YES	TOTALIZER	0.28	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 07, 2015
		CAL. FREQUENCY	Annual
		CAL. DUE DATE	May 2016

PROGRAMMING PARAMETERS			TOTALIZER		
THROAT WIDTH, (exp 1.5)	m	1.010	AS FOUND	736928.2	M3
EMPTY DISTANCE, TX to notch	m	0.504	AS LEFT	737035.11	M3
TRANSDUCER (TX), to sump floor	m	n/a	DIFFERENCE	106.91	M3
SUMP LEVEL, zero flow	m	n/a			
			TEST CRITERIA		
MAX. HEAD	m	0.200	AS FOUND CERTIFICATION TEST		Yes
BLANKING DISTANCE	m	0.300	ALLOWABLE [%] ERROR		5
DEAD ZONE	m	0.304			
MAX. FLOW	M3/H	574.1	COMPONENTS TESTED		
F.S. RANGE - O/P	M3/H	574.1	CONVERTER DISPLAY		yes
			mA OUTPUT		yes
			TOTALIZER		yes
			ACCURACY BASED ON [% o.r.]		No
Ultrasonic sensor installed to ensure full scale flow condition			ERROR DOCUMENTED IN THIS REPORT; BASED ON % F.S.		

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
REF. FLOW RATE		0.0	74.0	207.1	376.7	574.1	M3/H
MUT [Reading]		0.0	76.0	213.7	383.3	594.1	M3/H
MUT [Difference]		0.0	2.0	6.6	6.6	20.0	M3/H
MUT [% Error]		0.0	0.4	1.1	1.1	3.5	%
mA OUTPUT		4.000	6.062	9.773	14.499	20.000	mA
MUT [Reading]	min. 4.000 mA	3.998	6.066	9.754	14.339	20.011	mA
MUT [Difference]	max. 20.000 mA	-0.002	0.004	-0.019	-0.160	0.011	mA
MUT [% Error]		-0.01	0.02	-0.10	-0.80	0.05	%
TOTALIZER - REF. FLOW RATE						574.070	M3/H
TOTALIZER [MUT]						14.97	M3
TEST TIME						90.50	SECONDS
CALC. TOTALIZER						14.431	M3
ERROR						3.60	%

COMMENTS	QUALITY MANAGEMENT STANDARDS INFO.			RESULTS		
	[QMS] INFORMATION	IDENT.	ID #	TEST	AVG %FS	PASS FAIL
	[REFERENCE] LEVEL	Sim. BOARD	Yes	DISPLAY	1.53	PASS
PROCESS METER	DMM	3	mA OUTPUT	-0.17	PASS	
STOP WATCH	SW	Yes	TOTALIZER	3.60	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.

Appendix D

Received Sludge Volumes

2015 Sewage Hauled to Warton Sewage Lagoons

Date	Imperial Gallons	Location	Hauler
Jan 2015	34,000	Tim Hortons (Hep)	Owen Sound Septic Services
Jan 2015	7,200		Grey Bruce Septic Service
Feb 2015	20,400	Tim Hortons (Hep)	Owen Sound Septic Services
Feb 2015	15,300		Grey Bruce Septic Service
Mar 2015	30,600	Tim Hortons (Hep)	Owen Sound Septic Services
Mar 2015	15,200		Grey Bruce Septic Service
Apr 2015	37,400	Tim Hortons (Hep)	Owen Sound Septic Services
Apr 2015	6,400		Grey Bruce Septic Service
May 2015	40,800	Tim Hortons (Hep)	Owen Sound Septic Services
Jun 2015	44,200	Tim Hortons (Hep)	Owen Sound Septic Services
Jul 2015	61,200	Tim Hortons (Hep)	Owen Sound Septic Services
Jan-Aug 2015	2,400		B&L Portables
July 2015	753	Portable Toilets	Bluewater Sanitation
Aug 2015	1,321		Bluewater Sanitation
Aug-07 2015	1,300	Oliphant Islands	Tom's Septic
Aug 2015	64,600	Tim Hortons (Hep)	Owen Sound Septic Services
Sep 2015	34,000	Tim Hortons (Hep)	Owen Sound Septic Services
Aug-Sept 2015	1,200	Oliphant Islands	Tom's Septic
Oct 2015	30,600	Tim Hortons (Hep)	Owen Sound Septic Services
Nov 2015	13,600	Tim Hortons (Hep)	Owen Sound Septic Services
Dec 2015	37,400	Tim Hortons (Hep)	Owen Sound Septic Services
Dec 2015	7,540		Grey Bruce Septic Service
Total	507,414		

Appendix E

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: Inez Porter
Address: 386 Mary Street
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: 03/01/2015
Time of Complaint: 10:26:11 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:

Sewer has backed up.

Action taken in response:

Load sewer camera and expose sewer clean out. Pushed camera in sewer lateral and hit blockage approximately 60' from clean out on northeast corner of home. Inform Town of the issue. Suspect ice buildup. Sewer lateral found to be approximately 4' deep at the private property line. Town advised home owner to call plumber.

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: Cherie Young 03/04/2015 03:48:36 PM

Investigating Operator: David Noble

Comments:

Dave Noble assisted by Operations Manager Leo Paul Frigault.

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: Tom Gray
Address: 298 Frank 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: 05/28/2015
Time of Complaint: 11:50:24 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 type="checkbox"/> Service Problem | <input checked="" type="checkbox"/> Basement Flooding |
| <input type="checkbox"/> Odour | <input checked="" type="checkbox"/> Sludge Related | |
- Other: _____

Description:

Sewer backing up in basement

Action taken in response:

Camera sewer upstream from resident's cleanout. Greasy blockage found at manhole sweep. Sewer manhole sunken and requires new grade rings and leveling. Attempted to rod through service at 298 Frank Street. Unable to make corner into sewer main. Camera from 306 Frank Street's clean out. Sewer main clear to Berford (approximately 90' distance). Called for emergency locates; prepared traffic plan. Excavate to discover gravel lodged in sewer main. Lateral pipe crushed by sunken manhole allowing crushed stones to enter into sewer main. Replace 45' elbow at 298 Frank Street driveway. Cleared gravel out of sewer main. Removed manhole containing lateral sewer cleanout from upstream property. Replaced crushed pipes. Sewer pipes repaired and trench backfilled.

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: Cherie Young 06/15/2015 11:56:23 AM

Investigating Operator: James Learn

Comments:

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 2L0
Name of Person who filed Complaint: Sandra Hosie
Address: 375 Gould Street,
Warton
Phone: 519-534-4101

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: 06/12/2015
Time of Complaint: 07:36:15 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:

Sewer back up in household plumbing.

Action taken in response:

Verified sewer main not blocked. Homeowner called plumber, who determined sewer lateral was blocked and broken at property line. Operations investigated using Town's camera. Root infiltration found and attempt to clean out with mechanical auger. Hand excavation required to expose blocked location. 4' sewer lateral section cut out; installed 4' sewer clean out; pushed Town's sewer camera from new clean out to sewer main. Confirmed sewer lateral sound and clear of debris. Backfilled excavated areas.

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: Cherie Young 06/30/2015 07:43:19 AM

Investigating Operator: Leo-Paul Frigault

Comments:

Operators on site Josh Marx, Andrew Bellamy, Megan Edney

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: Norm Deacon
Address: 529 Issac 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: 08/12/2015
Time of Complaint: 09:00:00 AM

Nature of Complaint

- | | | |
|---------------------------------|---|---|
| <input type="checkbox"/> Noise | <input type="checkbox"/> Water Supply Taste/Colour | <input checked="" 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 a call from Norm Deacon who complained about his basement sump pump running constantly. He also complained about gurgling noise when the toilet was flushed. Stan McNeil asked that he have the sump pump plumbing removed to confirm if the problem is related to sanitary sewer. Past locate sheets indicate that a separate lateral pipe connects the house to the municipal storm sewer system. Message received at the Warton WTP from Norm Deacon that confirmed that they had their sewer lateral cleaned out up to the sewer cleanout situated on public property side.

Action taken in response:

Site visit at 529 Issac. Norm Deacon was present with another person. They had a mechanical auger inserted into the sewer clean out. Blockage was apparently dislodged as I witnessed water flowing pass the clean out when the toilet was flushed. Person on site with Norm Deacon confirmed that they introduced the auger in the sewer clean out approx. one hour ago. I confirmed that I would be back tomorrow with the sewer camera to investigate the state of the sewer lateral from the cleanout to the sewer main.

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: [Camille Leung](#) 09/25/2015 11:09:57 AM

Investigating Operator: [Leo-Paul Frigault](#)

Comments:

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: Unknown
Address: 537 Edward
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: 10/16/2015
Time of Complaint: 02:20:59 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 toilet backing up.

Action taken in response:

Mains were checked and found to be in good condition with health flow. Advised the resident to contact their plumber

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: Camille Leung 12/03/2015 02:23:25 PM

Investigating Operator:

Comments:

Appendix F

Effluent By-pass Reports

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

	<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: Megan Edney

DATE: Nov 6, 2015 -----

RE: Partial bypass of filtered lagoon effluent (NO UV)

PAGES: _____ (including this one)

MESSAGE:

Partial bypass of filtered lagoon effluent
which did not receive the required UV dose

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: 4404~~8~~ Elm st. Lagoon filter building

DATE/TIME - Nov 6, 2015

START: 0815

STOP: 0820

TOTAL TIME: 5 mins

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

BRIEF DESCRIPTION OF SITUATION: UV Lamp Failure

REASON FOR OCCURRENCE: Power outage

WAS THIS A BYPASS? YES NO Partial

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: --- 3.6 --- LITRES/ Kg/(m³) (circle one) SHOW

CALCULATIONS:

$$\begin{aligned}
 &1028 \text{ m}^3/\text{day} \\
 &= 42.83 \text{ m}^3/\text{hr} \\
 &= 0.713 \text{ m}^3/\text{min} \quad \times 5 \text{ min} = 3.569 \text{ m}^3
 \end{aligned}$$

WERE SAMPLES TAKEN? YES NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl ₂ (mg/L)	TOTAL Cl ₂ (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:

Rain/wind storm kicked out the power @ 0815. Operator arrived onsite @ 0820 & shut off flow to building at 0820h. UV system went down when power went out causing a partial bypass of filtered lagoon effluent.

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	1008	1030	0820	Fatima
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	LM 1011	1030	0820	Shane Rindley
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-6310	LM 1016	1030	0820	
CLIENT TOWN OF SOUTH BRUCE PENINSULA	P: 519-534-1400 X 131 Public Works Manager F: 519-534-4976		1030	0820	
MANAGER	P: 519-379-2225 F: 519-534-3526	0842	1030	0820	Leo
OCWA PCT SOUTHAMPTON	P: (519) 373-1398 F: (519) 797-3080	1018	1030	0820	Camille
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-420-7389	X	1030	0820	X

Waste Reference # 5302-A32KM8

Operator name: Megan Edney

Operator signature:  Position: Operator

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

	<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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Dave Trombley)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819-994-0237

FROM: Josh Marx

DATE: Sept 30 2015

RE: Partial bypass of filtered & chlorinated Lagoon Effluent (NO UV.)

PAGES: 4 (including this one)

MESSAGE:

Partial bypass of filtered and chlorinated Lagoon effluent which did not receive the required UV Dose.

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

FACILITY NAME: Wiarion Wastewater Control Plant

WORKS #: WW 110000819

LOCATION: 441048 Elm St. Wiarion Lagoon Filter Building.DATE/TIME - Sept 30 2015START: 0815 / Second Bi-pass 0939STOP: 0827 / Second Bi-pass 0949TOTAL TIME: 12 mins / Second Bi-pass 10 minsOPERATOR RESPONDING: Josh Marx OIC OIT ORO (circle one)IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? Charlie SchmalzBRIEF DESCRIPTION OF SITUATION: U.V. Lamp failureREASON FOR OCCURRENCE: System failedWAS THIS A BYPASS? YES NO Partial

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: _____

WHAT WAS DISCHARGED? Filtered + Chlorinated Lagoon Effluent

APPROXIMATE QUANTITY OF BYPASS: 10.183 m³ LITRES/ Kg/ m³ (circle one)
 Second Bypass 8.486111 m³

SHOW CALCULATIONS:

$$1222 \text{ m}^3/\text{d} \div 24 \text{ h/day} \div 60 \text{ min/hr}$$

$$0.8486111 \text{ m}^3/\text{min} \times 12 \text{ min} = 10.183 \text{ m}^3$$

Second Bi-pass

$$1222 \text{ m}^3/\text{d} \div 24 \text{ h/day} \div 60 \text{ min/hr}$$

$$0.8486111 \text{ m}^3/\text{min} \times 10 \text{ min} = 8.486111 \text{ m}^3$$

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:

A second bi-pass occurred at 0939 until 0949.
 Filter building flow has been stopped and is currently offline until issue can be resolved.
 The second bi-pass was caused by the same failure in system.

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	0933	1530	0827	Nicole Hebert
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	14:30	1530	0827	Shayne Findlay
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980	Left Message at 1518	1530	0827	
CLIENT TOWN OF SOUTH BRUCE PENINSULA	P: 519-534-1400 X 130 TOM GRAY Karen Cameron F: 519-534-4976	1528	1530	0827	Karen Cameron
MANAGER	P: 519-534-1610 F: 519-534-3526	0905	1530	0827	Leo-Paul Frigaul
OCWA ORANGEVILLE	P: 1-866-214-6987 Camille X-233 DAVE or LISA X 225 F: 519-941-1794	1509	1530	0827	Camille
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-994-0237 420-7380	X	1530	0827	X

Waste Reference # 0382-AZUHT6

Operator name: Josh Marx

Operator signature: 

Position: OIT

Fax Broadcast Report

Date & Time : SEP-30-2015 14:24 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	09-30 14:16	00' 25	004/004	EC	HS	Success
002	18002686061	09-30 14:17	00' 59	004/004	EC	HS	Success
003	5193712905	09-30 14:18	01' 34	004/004	G3	HS	Success
004	5193760980	09-30 14:20	00' 59	004/004	EC	HS	Success
005	15197973080	09-30 14:22	00' 35	004/004	EC	HS	Success
006	18194207380	09-30 14:23	00' 28	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 Broadcast Report

Date & Time : SEP-28-2015 06:17 MON
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	09-28 06:05	00' 26	004/004	EC	HS	Success
002	18002686061	09-28 06:06	00' 59	004/004	EC	HS	Success
003	5193712905	09-28 06:08	01' 34	004/004	G3	HS	Success
004	5193760980	09-28 06:10	00' 59	004/004	EC	HS	Success
005	15199411794	09-28 06:11	00' 30	004/004	EC	HS	Success
006	18199940237	09-28 06:12	00' 00	000/004	EC	HS	Fail
007	15197973080	09-28 06:14	00' 35	004/004	EC	HS	Success
008	18199940237	09-28 06:15	00' 00	000/004	EC	HS	Fail
009	18199940237	09-28 06:16	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

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

	<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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Dave Trombley)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819-994-0237

FROM: Megan Edney

DATE: September 28, 2015

RE: Partial bypass of filtered & chlorinated lagoon effluent (No UV dosage)

PAGES: 4 (including this one)

MESSAGE:

Partial bypass of filtered & chlorinated lagoon effluent which did not receive the required UV dose.
WSE

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, Warton Lagoon Filter building

DATE/TIME - Sept 27, 2015

START: 1720

STOP: 1740

TOTAL TIME: 20 mins

OPERATOR RESPONDING: Megan Edney OIC OIT ORO (circle one)

IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? _____

BRIEF DESCRIPTION OF SITUATION: Power blip caused UV system to go down

REASON FOR OCCURRENCE: power blip

WAS THIS A BYPASS? YES NO Partial

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: _____

WHAT WAS DISCHARGED? Filtered & chlorinated lagoon effluent.

APPROXIMATE QUANTITY OF BYPASS: 22.71 m³ LITRES/ Kg (m³) (circle one)

SHOW CALCULATIONS:

$$1635 \text{ m}^3/\text{day} \div 24 \text{ h/day} \div 60 \text{ min/hr} \times 20 \text{ min} = 22.71 \text{ m}^3$$

WERE SAMPLES TAKEN? YES NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl ₂ (mg/L)	TOTAL Cl ₂ (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 blip caused u.v. to shut down, System restarted. Approximately 22.71 m³ bypassed UV dose

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	Sept 27/15 1851	Sept 28 2015 0725	Sept 29/15 1740h	Nicole.
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905		0725	Sept 21/15 1740h	
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980	Sept 27 1909M	0725	Sept 27/15 1740	Susan Schular.
CLIENT TOWN OF SOUTH BRUCE PENINSULA	P: 519-534-1400 X 131 TOM GRAY F: 519-534-4976		0725	Sept 27/15 1740	
MANAGER	P: 519-534-1610 F: 519-534-3526	LM Sept 27 @ 1851	0725	Sept 27/15 1740	LEO
OCWA ORANGEVILLE Southampton.	P: 1-866-214-6987 X 233 DAVE or HSA X 225 F: 519-941-1794	LM Sept 27 1853	0725	Sept 27/15 1740	Camille
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-994-0237	X			X

Waste Reference # 3555-A2RUPW

Operator name: Megan Edney

Operator signature: 

Position: Operator

Fax Confirmation Report

Date & Time : SEP-28-2015 06:34 MON
Number : 519-534-3526
Fax Name : Warton Treatment Plant
Model Name : WorkCentre 4250

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	18199940237	09-28 06:33	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

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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Dave Trombley)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819-994-0237

FROM: Megan Edney

DATE: September 28, 2015

RE: Partial bypass of filtered & chlorinated lagoon effluent (No UV dosage)

PAGES: 4 (including this one)

MESSAGE:

Partial bypass of filtered & chlorinated lagoon effluent which did not receive the required UV dose.

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

Fax Transmission Report

Date & Time : SEP-28-2015 06:43 MON
 Number : 519-534-3526
 FAX Name : Wiarton Treatment Plant
 Model Name : WorkCentre 4250

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
021		07-23 13:15	03' 48	004	EC	HS	
022	5195344976	07-24 13:59	00' 11	001/001	EC	HS	Success
023	5195344976	07-25 13:23	00' 10	001/001	EC	HS	Success
024	15199411794	07-27 14:58	01' 35	009/009	EC	HS	Success
025	5195344976	07-28 12:16	00' 10	001/001	EC	HS	Success
026	15199411794	07-28 14:06	00' 13	001/001	EC	HS	Success
027	15199411794	08-01 05:47	01' 05	006/006	EC	HS	Success
028	15199411794	08-01 11:21	02' 24	014/014	EC	HS	Success
029		08-02 17:10	04' 06	004	EC	HS	
030	15199411794	08-02 17:17	01' 19	008/008	EC	HS	Success
031	5197973080	08-04 12:56	00' 00	000/004	EC	HS	Fail
032	15197973080	08-04 12:59	00' 22	001/001	EC	HS	Success
033	15197973080	08-04 13:02	01' 05	003/003	EC	HS	Success
034	15199411794	08-04 14:12	01' 05	006/006	EC	HS	Success
035	5197973080	08-04 14:18	00' 00	000/006	EC	HS	Fail
036	15197973080	08-06 07:59	01' 50	006/006	EC	HS	Success
037	15197973080	08-10 10:44	00' 22	001/001	EC	HS	Success
038		08-10 10:52	00' 00	000/001	EC	HS	Fail
039	15197973080	08-10 10:55	00' 40	002/002	EC	HS	Success
040	15197973080	08-10 11:00	00' 22	001/001	EC	HS	Success
041	15199411794	08-10 13:16	04' 55	032/032	EC	HS	Success
	15197973080	08-10 13:22	08' 16	032/032	EC	HS	Success
043	15197973080	08-10 14:46	00' 40	002/002	EC	HS	Success
044		08-10 14:56	00' 00	000/003	EC	HS	Fail
045	5197973080	08-10 15:02	00' 00	000/003	EC	HS	Fail
046		08-10 15:15	03' 07	004	EC	HS	
047	15197973080	08-10 15:21	00' 07	001/001	EC	HS	Success
048	15197973080	08-10 15:22	00' 40	002/002	EC	HS	Success
049	15197973080	08-10 15:23	00' 56	003/003	EC	HS	Success
050	15197973080	08-12 14:13	00' 56	004/004	EC	HS	Success
051	5195343792	08-13 13:51	00' 00	000/004	EC	HS	Fail
052	15197973080	08-14 12:41	00' 17	001/001	EC	HS	Success
053	14162312107	08-14 14:58	01' 33	012/012	EC	HS	Success
054	15197973080	08-17 10:51	00' 47	003/003	EC	HS	Success
055	14162312107	08-17 13:13	00' 43	005/005	EC	HS	Success
056	15197973080	08-17 14:30	01' 12	005/005	EC	HS	Success
057	15197973080	08-24 12:22	01' 48	007/007	EC	HS	Success
058	5195344976	08-31 13:58	00' 08	001/001	EC	HS	Success
059	5195344976	08-31 13:59	00' 08	001/001	EC	HS	Success
060	5195344976	08-31 14:00	00' 10	001/001	EC	HS	Success
061	15197973080	08-31 14:46	00' 50	003/003	EC	HS	Success
062	15197973080	09-01 07:31	00' 51	005/005	EC	HS	Success
063	15197973080	09-02 14:07	01' 44	007/007	EC	HS	Success
064	15197973080	09-03 09:26	00' 14	001/001	EC	HS	Success
065	15199411794	09-04 10:11	05' 11	034/034	EC	HS	Success
066	15197973080	09-04 10:19	06' 33	034/034	EC	HS	Success
067	15197973080	09-08 14:09	01' 29	007/007	EC	HS	Success
068		09-28 06:05	05' 03	004	EC	HS	
	005:	09-28 06:25	00' 00	000/004	EC	HS	Fail
070	18199940237	09-28 06:33	00' 00	000/004	EC	HS	Fail

Abbreviations:

HS: Host Send	PL: Polled Local	EC: Error Correct	TS: Terminated by System
Host Receive	PR: Polled Remote	MP: Mailbox Print	RP: Report
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

	<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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Dave Trombley)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819-994-0237

FROM: Andrew Bellamy

DATE: August 10, 2015

RE: Partial bypass of Filtered & chlorinated Lagoon
Effluent (No U.V.)

PAGES: 4 (including this one)

MESSAGE:

Partial bypass of Filtered and chlorinated
Lagoon effluent which did not receive
the required U.V. Dose.

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

FACILITY NAME: Wiarion Wastewater Control Plant

WORKS #: WW 110000819

LOCATION: 441048 Elm St. Wiarion Lagoon
Filter building

DATE/TIME - Aug 10, 2015

START: 13:25

STOP: 13:45

TOTAL TIME: 20 min

OPERATOR RESPONDING: Andrew Bellamy OIC OIT ORO (circle one)

IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? James Learn

BRIEF DESCRIPTION OF SITUATION: Power outage

REASON FOR OCCURRENCE: power outage

WAS THIS A BYPASS? YES NO partial

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: _____

WHAT WAS DISCHARGED? Filtered & chlorinated Lagoon effluent

APPROXIMATE QUANTITY OF BYPASS: 16.67 LITRES/ Kg/m³ (circle one)

SHOW CALCULATIONS:

$$1200 \text{ m}^3 \text{ d} \div 24 \text{ h/day} \div 60 \text{ min/hr}$$

$$0.83333 \text{ m}^3/\text{min} \times 20 = 16.67 \text{ m}^3$$

WERE SAMPLES TAKEN?

YES

NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl ₂ (mg/L)	TOTAL Cl ₂ (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 Blip caused U.V. To shut
down. Restarted system. Aprox bypass of
16.67 m³

ADVERSE REPORT FOR WIARTON WASTEWATER

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	15:51	16:29	13:45	Alim Khan
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	16:00 verbal	16:29	13:45	Shayne Findley
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980	Left message	16:29	13:45	
CLIENT TOWN OF SOUTH BRUCE PENINSULA	P: 519-534-1400 X 131 TOM GRAY F: 519-534-4976			13:45	
MANAGER	P: 519-534-1610 F: 519-534-3526	13:50	16:29	13:45	Leo-Paul Frigault
OCWA ORANGEVILLE	P: 1-866-214-6987 X 233 DAVE or LISA X 225 F: 519-941-1794			13:45	
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-994-0237	X			X

Waste Reference # ~~0382-A2411T6~~ JM

Operator name: _____

Operator signature: _____ Position: _____

Fax Broadcast Report

Date & Time : AUG-10-2015 15:21 MON
I Number : 519-534-3526
Fax Name : Wiarton Treatment Plant
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	5195344976	08-10 15:15	00' 23	004/004	EC	HS	Success
002	18002686061	08-10 15:16	00' 56	004/004	EC	HS	Success
003	5193712905	08-10 15:17	00' 37	004/004	EC	HS	Success
004	18199940237	08-10 15:18	00' 35	004/004	EC	HS	Success
005	15197973080	08-10 15:20	00' 36	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

	<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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Dave Trombley)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819- 994-0237 420 7380

FROM: Andrew Bellamy

DATE: August 2, 2015

RE: Partial bypass of Filtered & chlorinated Lagoon effluent
(no UV.)

PAGES: 4 (including this one)

MESSAGE:

Partial bypass of Filtered and
chlorinated Lagoon effluent which did not
received required U.V. Dose

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, Warton Lagoon
Filter Bldg.

DATE/TIME - Aug 2, 2015

START: 14:47 16:17

STOP: 15:42 16:57

TOTAL TIME: 55 + 40 = 1h 35min

OPERATOR RESPONDING: Andrew Bellamy OIC ORO (circle one)

IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? Charlie Schmalz

BRIEF DESCRIPTION OF SITUATION: Power outages.

REASON FOR OCCURRENCE: Power outages

WAS THIS A BYPASS? YES NO partial

IF YES, WHAT WAS BYPASSED?

- RAW SEWAGE BYPASS
- PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: _____

WHAT WAS DISCHARGED? Filtered & chlorinated Lagoon effluent

APPROXIMATE QUANTITY OF BYPASS: 148.42 LITRES/ Kg/ m³ (circle one)

SHOW CALCULATIONS:

$$1495 \text{ m}^3/\text{d} \div 24 \text{ hrs/day} \div 60 \text{ min/hr}$$

$$1.3854166 \text{ m}^3/\text{min} \times 55 = 76.198 \text{ m}^3$$

$$2600 \text{ m}^3/\text{d} \div 24 \text{ hrs/day} \div 60 \text{ min/hr}$$

$$1.80556 \text{ m}^3/\text{min} \times 40 = 72.222 \text{ m}^3$$

$$76.198 + 72.222 = 148.42 \text{ m}^3$$

WERE SAMPLES TAKEN?

YES NO

IF YES,

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

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

YES NO DISINFECT BYPASS

YES NO DID RELEASE ENTER WATER COURSE

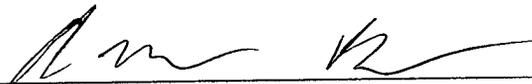
YES NO DID RELEASE GO OFFSITE

NOTES:

Power outages. Operator called in and reset U.V. system. Two Power outages caused U.V. system to Fault out twice producing an aprox. bypass of 148.42 m³

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	18:11	18:30	16:57	mark Harris
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	18:20	18:30	16:57	mark Harris
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980			16:57	
CLIENT TOWN OF SOUTH BRUCE PENINSULA	P: 519-534-1400 X 131 TOM GRAY F: 519-534-4976	18:22	18:30	16:57	Karven Cameron (left message)
MANAGER	P: 519-534-1610 F: 519-534-3526	17:23	18:30	16:57	Leo-Paul Frigaul
OCWA ORANGEVILLE	P: 1-866-214-6987 X 233 DAVE or LISA X 225 F: 519-941-1794	18:23	18:30	16:57	Cherie (left message)
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-994-0237	X			X

Waste Reference # 7033-942TZJOperator name: Andrew BellamyOperator signature:  Position: operator

Fax Broadcast Report

Date & Time : AUG-02-2015 17:17 SUN
Number : 519-534-3526
Fax Name : Wiarton Treatment Plant
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	5195344976	08-02 17:10	00'25	004/004	EC	HS	Success
002	18002686061	08-02 17:11	00'58	004/004	EC	HS	Success
003	5193712905	08-02 17:13	00'26	004/004	EC	HS	Success
004	5193760980	08-02 17:13	00'58	004/004	EC	HS	Success
005	15199411794	08-02 17:15	00'29	004/004	EC	HS	Success
006	18199940237	08-02 17:16	00'50	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

	<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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Cherie Young)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819-994-0237 420-00 420 7380

FROM: Megan Eaney

DATE: July 23, 2015

RE: Partial bypass of filtered & chlorinated lagoon effluent
(No UV dose)

PAGES: 4 (including this one)

MESSAGE:

Partial bypass of filtered and chlorinated lagoon
effluent which did not receive required UV dosage.

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, Warton Lagoon Filter Bldg.

DATE/TIME - July 23, 2015

START: 1213

STOP: 1226

TOTAL TIME: 13mins

OPERATOR RESPONDING: Megan Edney OIC OIT ORO (circle one)

IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? _____

BRIEF DESCRIPTION OF SITUATION: Power outage causing ^{Temporary} loss of UV system

REASON FOR OCCURRENCE: Power outage

WAS THIS A BYPASS? YES NO Partial

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: _____

WHAT WAS DISCHARGED? filtered & chlorinated lagoon effluent

APPROXIMATE QUANTITY OF BYPASS: 7.97 LITRES/ Kg/ m³ (circle one)

SHOW CALCULATIONS:

$$883 \text{ m}^3/\text{day} \div 24 \text{ hrs/day} \div 60 \text{ mins/hr}$$

$$0.6131 \text{ m}^3/\text{min} \times 13 \text{ mins} = 7.97 \text{ m}^3$$

WERE SAMPLES TAKEN? YES NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl ₂ (mg/L)	TOTAL Cl ₂ (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 @ 1213, operator called out, operator arrived onsite & shut inflow off @ 1220, acknowledged alarms & UV System back in service at 1230h contacted & reported occurrence to SAC & required contacts as per attached list.

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	1320	1430	1236	Justin Chin
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	1329	1430	1236	Shane Findlay
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980	1329 1423	1430	1236	Georgia Stanley
CLIENT TOWN OF SOUTH BRUCE PENINSULA	P: 519-534-1400 X 131 TOM GRAY F: 519-534-4976	Lm 1330	1430	1236	Tom Gray
MANAGER	P: 519-534-1610 F: 519-534-3526	Lm 1338	1430	1236	Richard
OCWA ORANGEVILLE	P: 1-866-214-6987 X 233 DAVE or LISA X 225 F: 519-941-1794	1400	1430	1236	Clare Chene
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-994-0237	X			X

Waste Reference # 2736-9YPNBL

Operator name: Megan Edeley

Operator signature: 

Position: Operator

Fax Broadcast Report

Date & Time : JUL-23-2015 13:22 THU
Number : 519-534-3526
Fax Name : Wiarton Treatment Plant
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	5195344976	07-23 13:15	00' 24	004/004	EC	HS	Success
002	18002686061	07-23 13:16	00' 58	004/004	EC	HS	Success
003	5193712905	07-23 13:18	00' 28	004/004	EC	HS	Success
004	5193760980	07-23 13:19	00' 57	004/004	EC	HS	Success
005	15199411794	07-23 13:20	00' 29	004/004	EC	HS	Success
006	18199940237	07-23 13:21	00' 32	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

	<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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Cherie Young)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819-994-0237 420-00- 420 7380

FROM: Megan Edney

DATE: June 23, 2015

RE: Partial bypass of filtered & chlorinated lagoon effluent
(No UV dose)

PAGES: 4 (including this one)

MESSAGE:

Partial bypass of filtered & chlorinated lagoon effluent
which did not receive required UV light dosage.

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

FACILITY NAME: Wiarion Wastewater Control Plant

WORKS #: WW 110000819

LOCATION: 44104B Elm St, Wiarion Lagoon Filter Building

DATE/TIME - June 22, 2015

START: 2113

STOP: 2203

TOTAL TIME: 50 mins

OPERATOR RESPONDING: Megan Edney OIC OIT ORO (circle one)

IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? _____

BRIEF DESCRIPTION OF SITUATION: Power Outage

REASON FOR OCCURRENCE: Thunder Storm

WAS THIS A BYPASS? YES NO Partial

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: _____

WHAT WAS DISCHARGED? filtered chlorinated lagoon effluent

APPROXIMATE QUANTITY OF BYPASS: 113 LITRES/ Kg/m³ (circle one)

SHOW CALCULATIONS:

$135 \text{ m}^3/\text{hr} \times 50 \text{ mins}$

WERE SAMPLES TAKEN? YES NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl ₂ (mg/L)	TOTAL Cl ₂ (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 @ 2113, operator called out operator arrived onsite 2200, acknowledge alarm's and UV system put back into service, proper UV dosage restored @ 2203, contacted & reported occurrence to SAC & required contacts as per attached list

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	2230	June 23/15 0740	2203	David Irwin
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905		0740	2203	
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980	2245	0740	2203	Chris
CLIENT TOWN OF SOUTH BRUCE PENINSULA MANAGER	P: 519-534-1400 X 131 TOM GRAY F: 519-534-4976 P: 519-534-1610 F: 519-534-3526	0725	0740	2203	Tom Leo.
OCWA ORANGEVILLE	P: 1-866-214-6987 X 233 DAVE or LISA X 225 F: 519-941-1794	0720	0740	2203	Cherie Young
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-994-0237	X	0740		X

Waste Reference # 124307

Operator name: Megan Edney

Operator signature: 

Position: Operator

Fax Broadcast Report

Date & Time : JUN-23-2015 15:06 TUE
Number : 519-534-3526
Fax Name : Wiarton Treatment Plant
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	5195344976	06-23 14:59	00' 24	004/004	EC	HS	Success
002	18002686061	06-23 15:00	00' 56	004/004	EC	HS	Success
003	5193712905	06-23 15:01	00' 27	004/004	EC	HS	Success
004	5193760980	06-23 15:02	00' 59	004/004	EC	HS	Success
005	15199411794	06-23 15:03	00' 37	004/004	EC	HS	Success
006	18199940237	06-23 15:05	00' 34	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

	<u>Fax Number</u>
TO: Spills Action Centre:	1-800-268- 6060 6061
MOE Owen Sound:	519-371-2905
MOH Owen Sound:	519-376-0980
Town of South Bruce Peninsula (Attention Tom Gray)	519-534-4976
OCWA (Attention Cherie Young)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819- 994-0237 420-7380

FROM: Megan Edney

DATE: May 21, 2015

RE: Partial bypass of filtered and chlorinated lagoon effluent
(No UV dosage)

PAGES: 4 (including this one)

MESSAGE:

Partial bypass of filtered & chlorinated lagoon effluent
which did not receive required UV Light dosage.

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

FACILITY NAME: Wiarion Wastewater Control Plant

WORKS #: WW 110000819

LOCATION: 441048 Elm St, Wiarion Lagoon Filter Building

DATE/TIME - May 20, 2015

START: 1820

STOP: 1920

TOTAL TIME: 60 mins

OPERATOR RESPONDING: Megan Edney OIC OIT ORO (circle one)

IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? _____

BRIEF DESCRIPTION OF SITUATION: Partial Power outage

REASON FOR OCCURRENCE: Power outage.

WAS THIS A BYPASS? YES NO Partial

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: _____

WHAT WAS DISCHARGED? Filtered and chlorinated lagoon effluent.

APPROXIMATE QUANTITY OF BYPASS: 42 m³ LITRES/ Kg/ m³ (circle one)

SHOW CALCULATIONS:

$42 \text{ m}^3/\text{hr} \times 1 \text{ hr.}$

WERE SAMPLES TAKEN? YES **NO**

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl ₂ (mg/L)	TOTAL Cl ₂ (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 @ 1820, operator called out, arrived onsite, contacted DRO James Learnd Hydro One, Shut flow control valve @ 1920, contact & report occurrence to SAC & other required contacts as per attached list. Power Restored @ 2050, proper UV dosage restored, flow control valve reopened at 2115h. System back in normal operations.

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- 6060 6061	May 20/15 2009h	May 21, 2015 0820h	May 20/15 2115h	Julianne
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	May 21/15 0825	May 21, 2015 0825	May 20/15 2115h	Shane
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980	2026h	May 21, 2015 0820h	2115h	Susan Shullar
CLIENT TOWN OF SOUTH BRUCE PENINSULA MANAGER	P: 519-534-1400 X 131 TOM GRAY F: 519-534-4976 P: 519-534-1610 F: 519-534-3526	left message May 21/15 0815	May 21/15 0820	2115h.	Karen
OCWA ORANGEVILLE	P: 1-866-214-6987 X 233 DAVE or LISA X 225 F: 519-941-1794	2021h	0820h.	2115h	Cherie
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819- 994-0237 420 7380	X			X

Waste Reference # 3124-9WQ23V

Operator name: Megan Edney

Operator signature: 

Position: Operator.

Fax Broadcast Report

Date & Time : MAY-21-2015 07:21 THU
Number : 519-534-3526
Fax Name : Wiarton Treatment Plant
Model Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	5195344976	05-21 07:16	00' 25	004/004	EC	HS	Success
002	18002686061	05-21 07:17	01' 00	004/004	EC	HS	Success
003	5193712905	05-21 07:18	00' 29	004/004	EC	HS	Success
004	5193760980	05-21 07:19	00' 59	004/004	EC	HS	Success
005	15199411794	05-21 07:20	00' 30	004/004	EC	HS	Success

Abbreviations:

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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

	<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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Dave Trombley)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819-994-0237

FROM: Joshua Marx

DATE: May 11 2015

RE: partial Bypass of filtered Lagoon Effluent (no UV Dosage)

PAGES: 4 (including this one)

MESSAGE:

Partial bypass of filtered lagoon effluent which
did not receive required UV light dosage.

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

FACILITY NAME: Wiarton Wastewater Control Plant

WORKS #: WW 110000819

LOCATION: 441048 Elan St. Wiarton Lagoon filter BuildingDATE/TIME - May 11 2015START: 13:27STOP: 13:31TOTAL TIME: 4 minsOPERATOR RESPONDING: Andrew Bellamy OIC OIT ORO (circle one)IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? James LearnBRIEF DESCRIPTION OF SITUATION: Power failure (brief)REASON FOR OCCURRENCE: Power failureWAS THIS A BYPASS? YES NO

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: _____

WHAT WAS DISCHARGED? _____

APPROXIMATE QUANTITY OF BYPASS: 4.116 m³ LITRES/ Kg/ m³ (circle one)

SHOW CALCULATIONS:

rate of flow x time

$$1482 \text{ m}^3 / \text{D} \div 24 \text{ hrs} / \text{D} \div 60 \text{ mins} / \text{hr} \times 4 \text{ mins}$$

WERE SAMPLES TAKEN? YES NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl ₂ (mg/L)	TOTAL Cl ₂ (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 @ 13:27, Flows @ time of outage were 1482 m³/day. UV System back on @ 13:31

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	1440	1520	1520	DHRWA
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	1459	1520	1520	Share Finley
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980	1506	1520	1520	
CLIENT TOWN OF SOUTH BRUCE PENINSULA	P: 519-534-1400 X 131 TOM GRAY F: 519-534-4976	1508 (message)	1520	1520	Tom Gray
MANAGER	P: 519-534-1610 F: 519-534-3526	1509	1520	1520	Leo
OCWA ORANGEVILLE	P: 1-866-214-6987 X 233 DAVE or LISA X 225 F: 519-941-1794	1516	1520	1520	Lisa
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-994-0237	X			X

Waste Reference # 4005-9WEPUE

Operator name: Josh Marx

Operator signature:  Position: OIT

Fax Broadcast Report

Date & Time : MAY-11-2015 14:13 MON
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	05-11 14:07	00' 23	004/004	EC	HS	Success
002	18002686061	05-11 14:08	00' 56	004/004	EC	HS	Success
003	5193712905	05-11 14:10	00' 27	004/004	EC	HS	Success
004	5193760980	05-11 14:10	00' 56	004/004	EC	HS	Success
005	15199411794	05-11 14:12	00' 28	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

	<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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Cherie Young)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819-994-0237

FROM: MEGAN EDNEY

DATE: Feb 6, 2015

RE: Partial Bypass of ~~UV~~ Filtered Lagoon Effluent (NO UV DOSAGE)

PAGES: 4 (including this one)

MESSAGE:

Partial bypass of filtered lagoon effluent which did
not receive required UV light dosage

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

FACILITY NAME: Wiarion Wastewater Control Plant

WORKS #: WW 110000819

LOCATION: 441048 Elm St, Wiarion Lagoon Filter Bldg

DATE/TIME - Feb 6, 2015

START: 10:07

STOP: 10:23

TOTAL TIME: 16 mins

OPERATOR RESPONDING: DAVE NOBLE OIC OIT ORO (circle one)

IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? _____

BRIEF DESCRIPTION OF SITUATION: Power outage due to weather

REASON FOR OCCURRENCE: Power outage

WAS THIS A BYPASS? YES NO Partial

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: 11.4 m³ LITRES/ Kg/ m3 (circle one)

SHOW CALCULATIONS:

rate of flow \times Time
 $1025 \text{ m}^3/\text{D} \div 24 \text{ hrs/D} \div 60 \text{ mins/hr} \times 16 \text{ mins}$

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 @ 1007, flows @ time of outage were 1025 m³/day. UV system back to full power upon arrival @ 1023h.

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	11:00	11:25	11:25	John.
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	11:25	11:25	11:25	SHANE.
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980	11:05	11:25	11:25	MAGGY.
CLIENT TOWN OF SOUTH BRUCE PENINSULA MANAGER	P: 519-534-1400 X 131 TOM GRAY F: 519-534-4976 P: 519-534-1610 F: 519-534-3526	11:25	11:25	11:25	Tom LEO
OCWA ORANGEVILLE	P: 1-866-214-6987 X 233 DAVE or LISA X 225 F: 519-941-1794	11:10	11:25	11:25	LISA
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-994-0237	X			X

Waste Reference # 1468-9TGLNP

Operator name: DAVE NOBLE

Operator signature: Dave Noble

Position: OPERATOR/MECHANIC

Fax Broadcast Report

Date & Time : FEB-06-2015 11:23 FRI
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	5195344976	02-06 11:17	00' 23	004/004	EC	HS	Success
002	18002686061	02-06 11:18	01' 34	004/004	G3	HS	Success
003	5193712905	02-06 11:20	00' 25	004/004	EC	HS	Success
004	5193760980	02-06 11:21	00' 54	004/004	EC	HS	Success
005	15199411794	02-06 11:22	00' 36	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

	<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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Dave Trombley)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819-994-0237

FROM: Andrew Bellamy Ocwa Warton

DATE: Jan 10, 2015

RE: Partial Bypass of Filtered Lagoon Effluent (no UV Dosage)

PAGES: 4 (including this one)

MESSAGE:

Partial Bypass of Filtered Lagoon Effluent which
did not receive the required U-V Light Dosage.

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

FACILITY NAME: Wiarion Wastewater Control Plant

WORKS #: WW 110000819

LOCATION: 441048 Elm Street Wiarion Lagoon
Filter BLDG.

DATE/TIME -

START: 10:56

STOP: 11:12

TOTAL TIME: 16min

OPERATOR RESPONDING: Andrew Bellamy OIC OIT ORO (circle one)

IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? James Learn

BRIEF DESCRIPTION OF SITUATION: Hydro Power Outage Due to weather = NO U.V.

REASON FOR OCCURRENCE: Power Outage

WAS THIS A BYPASS? YES NO partial

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: 16.78m³ LITRES/ Kg/ m3 (circle one)

SHOW CALCULATIONS:

rate of flow @ time of occurrence = 1510m³/D
 $1510 \div 24 \div 60 \times 16 = 16.78m^3$

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 Bump at 10:56, Arrived at Filter Building at 11:09 and reset system. Back up to dosage at 11:12.

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	11:40	12:08	12:08	Johathan Kowba
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	11:45	12:08	12:08	abiko Dage
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980	11:59	12:08	12:08	Chris munn
CLIENT TOWN OF SOUTH BRUCE PENINSULA MANAGER	P: 519-534-1400 X 131 TOM GRAY F: 519-534-4976 P: 519-534-1610 F: 519-534-3526	message on voice Mail 12:01	12:08	12:08	Tom Gray
OCWA ORANGEVILLE	P: 1-866-214-6987 X 233 DAVE or LISA X 225 F: 519-941-1794	11:50	12:08	12:08	cherri
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-994-0237	X			X

Waste Reference # 0784-95MMRC

Operator name: Andrew Bellamy

Operator signature: Andrew Bellamy Position: OIT

Fax Broadcast Report

Date & Time : JAN-10-2015 12:07 SAT
Fax Number : 519-534-3526
Fax Name : Wiarton Treatment Plant
al Name : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	18199940237	01-10 12:00	00' 39	004/004	EC	HS	Success
002	15199411794	01-10 12:01	00' 27	004/004	EC	HS	Success
003	5195344976	01-10 12:02	00' 23	004/004	EC	HS	Success
004	5193760980	01-10 12:03	00' 54	004/004	EC	HS	Success
005	5193712905	01-10 12:05	00' 25	004/004	EC	HS	Success
006	18002686061	01-10 12:06	00' 55	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

	<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 (Attention Tom Gray)	519-534-4976
OCWA (Attention Cherie Young)	1-519-941-1794
Environment Canada (Attention Wastewater Program)	1-819-994-0237

FROM: DAVE NOBLE OCWA WARTON

DATE: JAN 9, 2015

RE: PARTIAL BYPASS OF FILTERED LAGOON EFFLUENT (NO UV DOSAGE)

PAGES: 4 (including this one)

MESSAGE:

PARTIAL BYPASS OF FILTERED LAGOON EFFLUENT WHICH DID NOT
RECEIVE THE REQUIRED UV LIGHT DOSAGE

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

FACILITY NAME: Wiarion Wastewater Control Plant

WORKS #: WW 110000819

LOCATION: 441048 ELM STREET. WIARTON LAGOON Filter BLDG

DATE/TIME -

START: 09:42

STOP: 10:05

TOTAL TIME: 23 minutes

OPERATOR RESPONDING: DAVE NOBLE OIT ORO (circle one)

IF OIT - WHO IS IN CHARGE FOR PROCESS CHANGES? _____

BRIEF DESCRIPTION OF SITUATION: HYDRO POWER OUTAGE DUE TO WX = UV system down

REASON FOR OCCURRENCE: POWER OUTAGE DUE TO SEVERE WEATHER

WAS THIS A BYPASS? YES NO PARTIAL

IF YES, WHAT WAS BYPASSED?

RAW SEWAGE BYPASS

PARTIAL TERTIARY BYPASS OF SECONDARY EFFLUENT

OTHER: _____

WHAT WAS DISCHARGED? Filtered Lagoon EFFLUENT

3706-95LRQB

APPROXIMATE QUANTITY OF BYPASS: 18.36 m³ LITRES/ Kg/ m³ (circle one)

SHOW CALCULATIONS:

$$\text{RATE of flow @ TIME of occurrence} = 1150 \text{ m}^3/\text{d}$$

$$1150 \div 24 \div 60 \times 23 = \approx 18.36 \text{ m}^3$$

WERE SAMPLES TAKEN? YES NO

IF YES,

LOCATION	DATE	TIME	RESULTS	FREE Cl ₂ (mg/L)	TOTAL Cl ₂ (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 @ 09:42, flow @ time of
 outage was 1150 m³/d. Isolated flow from bypass
 to filter dtd @ 10:05

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	15:15 ✓	15:30	14:30	AKIKO
OWEN SOUND MOE	P: 519-371-2901 F: 519-371-2905	Yes, @ 3:14 PM	15:30	14:30	Shayne Finlay
OWEN SOUND MOH	P: 519-376-9420 ONCALL: P: 519-376-5420 F: 519-376-0980	15:20	15:30	14:30	KATHERINE
CLIENT TOWN OF SOUTH BRUCE PENINSULA MANAGER	P: 519-534-1400 X 131 TOM GRAY F: 519-534-4976 P: 519-534-1610 F: 519-534-3526	Yes, @ 3:18 PM	15:30	14:30	Tom Gray
OCWA ORANGEVILLE GERRI	P: 1-866-214-6987 X 233 DAVE or LISA X 225 F: 519-941-1794	15:30	15:30	14:30	CHERRI
ENVIRONMENT CANADA (attention WASTEWATER PROGRAM)	F: 1-819-994-0237	X		14:30	X

Waste Reference # 3706-95LR03Operator name: DAVE NOBLEOperator signature: Dave Noble Position: OPERATOR O.I.C.

Fax Broadcast Report

Date & Time : JAN-09-2015 15:30 FRI
Fax Number : 519-534-3526
Facility Name : Warton Treatment Plant
Facility Address : WorkCentre 4250

Total Pages Scanned: 4

No.	Remote Station	StartTime	Duration	Page	Mode	Job Type	Result
001	18002686061	01-09 15:24	00' 57	004/004	EC	HS	Success
002	5193712905	01-09 15:25	00' 27	004/004	EC	HS	Success
003	5193760980	01-09 15:26	00' 57	004/004	EC	HS	Success
004	15199411794	01-09 15:28	00' 28	004/004	EC	HS	Success
005	18199940237	01-09 15:29	00' 34	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