



February 22, 2024

Municipality of West Grey
402813 Grey Rd 4
RR#2
Neustadt, ON
N0G 1R0

Attention: Geoff Aitken, Manager of Public Works

**RE: Neustadt Sewage Lagoons System
2023 Annual Report**

The 2023 Annual Operations Report for the Neustadt Sewage Lagoons Facility is enclosed. The report is prepared in accordance with Certificate of Approval Sewage Number 4631-6V4KUY annual report criteria and contains the following required components:

- A summary and interpretation of all monitoring data and a comparison to C of A effluent limits, including an overview of the success and adequacy of the works;
- A description of any operating problems encountered and corrective actions taken;
- A summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming a part of the works;
- A summary of any effluent quality assurance or control measures undertaken in the reporting period;
- A summary of the calibration and maintenance carried out on all effluent monitoring equipment;
- A description of efforts made and results achieved in meeting the effluent objectives;
- A tabulation of the volume of sludge generated in the reporting period, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;
- A summary of any complaints received during the reporting period and any steps taken to address the complaints; and
- A summary of all bypass, overflow, spill or abnormal discharge events.

On behalf of the municipality, a copy of this report is being sent to the MECP - Owen Sound District Office. If you have any questions, please direct your comments or concerns to the undersigned.

Sincerely,

Scott Gowan
Project Manager
Veolia Water Canada Inc.

1 Influent Monitoring and Historical Trends (as per ECA Section 11.4(a))

The Neustadt Wastewater Treatment Facility achieved all Certificate of Approval (Environmental Compliance Approval) effluent limits during 2023.

The annual average day flow was 259m³/d (14% more than in 2022 and slightly above the five year average of 242 m³), approximately 62% of the system's design capacity of 418m³/d. The maximum day flow was 645 m³ in December and was due to heavy precipitation. It is believed that there is a significant infiltration component to these flows as the daily flow processed by the drinking water system in 2023 was only about 124m³/d.

In the table below, a comparison of **2023** raw sewage parameters is compared to the five year average of those same parameters.

Raw Sewage Parameter	2023 Avg (mg/L)	Historical Five Year Avg.
TKN	43.8	41.6
TSS	356	255
BOD ₅	260	197
Total P	6.7	5.45

Overall, the 2023 raw sewage concentrations were all higher than the five year historical averages.

2 Final Effluent Monitoring Data (as per ECA Section 11.4(b))

Plant performance data is compared to the performance criteria in the Table below

Parameter	Seasonal Average Concentration, mg/L		
	Spring Discharge (April 1-May 31)	Fall Discharge (Nov. 1- Dec. 31)	MOE Effluent Limits
CBOD ₅	18.4	20.1	30
Suspended Solids	11.0	31	40
Total Phosphorus	0.16	0.32	1

Effluent was discharged from the lagoons from April 3 to April 6, April 20 to May 8, and Dec. 5 to Dec. 17 inclusive. A total of approximately 91,384m³ was discharged in 2023. Effluent pH was maintained between 6.0 and 9.0 throughout the discharge period. Monthly MUMP (S1) forms for 2023 are attached.

3 Monitoring Schedule summary (11.4(c))

In 2023, efforts were made to collect monthly raw samples on the first Tuesday of each month.

Effluent samples were collected during each discharge period at the beginning of each discharge as well as at 25%, 50% and 75% drawdown and at the end of each seasonal discharge

4 Description of Operating Problems (as per ECA Section 11.4(d))

A review of flow data from the water and wastewater systems indicate there is significant infiltration into the Neustadt collection system. Some months have three times the flow going to the lagoons than is leaving the drinking water system.

A flow meter is now available to measure the flow being discharged from the lagoons.

5 Maintenance Summary (as per ECA Section 11.4(5))

- Alum tank venting inspected regularly
- Annual flow meter calibration and generator inspection completed
- Bar screens raked biweekly
- Diesel genset at pumping station tested monthly
- Wet well pumped out and washed down as required
- Regular safety checks (eyewash, fire extinguishers, emergency lighting)

6 Effluent Quality Assurance or Control Measures (as per ECA Section 11.4(f))

A grab sample of raw sewage is collected monthly and tested for BOD₅, suspended solids (TSS), total phosphorus (TP) and Total Kjeldahl Nitrogen (TKN).

Prior to discharging the lagoon, the waste stabilization cells are sampled for BOD₅, TSS, TP, total ammonia, pH, hydrogen sulfide and dissolved oxygen.

During discharge periods in spring and fall, grab samples are collected at least twice weekly (minimum of five total) and analyzed for BOD₅, TSS, TP, TKN, ammonia-nitrogen, E. Coli and hydrogen sulfide.

All samples were sent to SGS Laboratories for analysis

7 Effluent Monitoring Equipment Calibration/Maintenance (as per ECA Section 11.4(g))

The raw flow meter was calibrated in April 2023. The calibration report is on file in the Veolia West Grey Shared drive.

8 Compliance with Effluent Objectives (as per ECA Section 11.4(h))

Parameter	Annual Average Concentration (mg/L)		
	Spring Discharge	Fall Discharge	Effluent Objectives
CBOD ₅	18.4	20.1	25
Suspended Solids	11.0	31	30
Total Phosphorus	0.16	0.32	1

During the fall discharge the Effluent Objective of 30 mg/l Total Suspended Solids was exceeded slightly at 31 mg/l. All other Effluent Objectives were met.

Average daily influent flow was about 62% of the rated capacity in 2023

9 Sludge Management (as per ECA Section 11.4(i))

Sludge depths were measured in Q3 2020. It is estimated that about 16-20% of the combined volume of the two cells contains sludge.

There was no sludge removed from this system in 2023. A clean out of the lagoons is not needed at this time. Another check of sludge depths will likely take place in 2025.

10 Summary of Complaints (as per ECA Section 11.4(j))

No complaints in 2023

11 Summary of Bypass, Overflow or Spills (as per ECA Section 11.4(k))

There were no bypass incidents in 2023.

12 Summary of all Notice of Modifications to Sewage Works

Not applicable

**13 Summary of efforts to achieve conformance with Procedure
F-5-1 and F-5-5**

Bypasses are not typically an issue for this system. There have been no bypasses in recent years

Fields marked with an asterisk (*) are mandatory.

Project Name
Neustadt Sewage Lagoons

Facility Address

Unit Number	Street Number Lot 4	Street Name Concession 14	PO Box
Municipality/City/Town Neustadt (Municipality of West Grey)		Province ON - Ontario	Postal Code N0G 2N0
Operating Authority Veolia Water Canada Inc.			

Mailing Address

Unit Number 1450	Street Number 555	Street Name Rene-Levesque Blvd West	PO Box
Municipality/City/Town Montreal		Province QC - Quebec	Postal Code H2Z 1B1

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month	Year	3 1	2	R
1 2	3 11	0 1	2 0 2 3	20 21	22	80

C.P.							
3 5	Flows	Parameter Code	Dec.	Monthly Results			
12 13	Total Flow (10 ³ m ³)	50010	3	9.252			
	Average Daily Flow (10 ³ m ³ /d)	50015	3	0.298			
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.607			
3 5	Bypass	Parameter Code	Dec.	Monthly Results		# of Occurrences	
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000		0	
	Duration (hours)	81680	1				
3 6	Raw Sewage	Parameter Code	Dec.	Monthly Results		# of Samples	
12 13	BOD ₅ (mg/L)	00001	0	499		1	
	Suspended Solids (mg/L)	00006	0	672		1	
	TKN (mg/L)	00020	2	58.10		1	
	Total Phosphorus (mg/L)	00033	1	12.8		1	
3 9	Final Effluent	Parameter Code	Dec.	Monthly Results		# of Samples	
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3				
	Flow Duration (hours)	81680	1				
	Cell Depth (m)	50290	1				
	CBOD ₅ (mg/L)	00002	1				
	BOD ₅ (mg/L)	00001	1				
	Suspended Solids (mg/L)	00006	1				
	Ammonia + Ammonium (mg/L)	00019	2				
	TKN (mg/L)	00020	2				
	Total Phosphorus (mg/L)	00033	2				
0 9	Disinfection	Parameter Code	Dec.	Monthly Results		# of Samples	
12 13	Chlorine Used (kg as Cl ₂)	50320	1				
	Chlorine Dosage (mg/L as Cl ₂)	80410	1				
	Chlorine Residual (mg/L as Cl ₂)	80420	1				

Operator Telephone Number
519-369-6655

Operator Email Address *
fei.xue@veolia.com

Comments
no effluent discharge in January

Return completed form to:

- Environmental Monitoring and Reporting Branch, MECP, at WasteWaterReporting@ontario.ca And
- Your Environmental Officer at your local District/Area MECP Office.

Ministry Contact Email Address *
matthew.shannon@ontario.ca

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month	Year	3 1	2	R
1 2	3 11	0 1	2 0 2 3	20 21	22	80

C.P.		Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
3 6	12 13	Total COD (mg/L)			950.00	1
		Volatile Suspended Solids (mg/)			506.00	1

3 9		Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13		Alkalinity, Total (mg/L)	00051	4		
		Conductivity 25°C (µS/cm)	91004	4		
		E. Coli (CT/100ml)	91000	4		
		Nitrate, Unfiltered reactive (mg/L)	00022	4		
		Nitrite, Unfiltered reactive (mg/L)	00021	4		
		pH	80770	4		
		Temperature, Water (°C)	80250	4		
		Un-ionized Ammonia (mg/L)	91012	4		
		Dissolved Oxygen (mg/L)	00003	4		
		Hydrogen Sulphide (mg/L)	83008	4		
		Total COD (mg/L)				

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Comments

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month	Year	2 8	2	R
1 2	3 11	0 2	2 0 2 3	20 21	22	80

C.P.	3 5	Flows	Parameter Code	Dec.	Monthly Results
12 13		Total Flow (10 ³ m ³)	50010	3	9.441
		Average Daily Flow (10 ³ m ³ /d)	50015	3	0.337
		Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.638

3 5	Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
	Duration (hours)	81680	1		

3 6	Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	BOD ₅ (mg/L)	00001	0	252	1
	Suspended Solids (mg/L)	00006	0	338	1
	TKN (mg/L)	00020	2	51.50	1
	Total Phosphorus (mg/L)	00033	1	5.5	1

3 9	Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3		
	Flow Duration (hours)	81680	1		
	Cell Depth (m)	50290	1		
	CBOD ₅ (mg/L)	00002	1		
	BOD ₅ (mg/L)	00001	1		
	Suspended Solids (mg/L)	00006	1		
	Ammonia + Ammonium (mg/L)	00019	2		
	TKN (mg/L)	00020	2		
	Total Phosphorus (mg/L)	00033	2		

0 9	Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Chlorine Used (kg as Cl ₂)	50320	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		

Operator Telephone Number
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Operator Email Address *
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Comments
no effluent discharge in Feb

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month	Year	3 1	2	R
1 2	3 11	0 3	2 0 2 3	16 19	20 21	22 80

C.P.	3 5
12 13	

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	11.285
Average Daily Flow (10 ³ m ³ /d)	50015	3	0.364
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.574

Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50270	3	0,000	0
Duration (hours)	81680	1		

Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0	64	1
Suspended Solids (mg/L)	00006	0	90	1
TKN (mg/L)	00020	2	36.80	1
Total Phosphorus (mg/L)	00033	1	3.2	1

Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3		
Flow Duration (hours)	81680	1		
Cell Depth (m)	50290	1		
CBOD ₅ (mg/L)	00002	1		
BOD ₅ (mg/L)	00001	1		
Suspended Solids (mg/L)	00006	1		
Ammonia + Ammonium (mg/L)	00019	2		
TKN (mg/L)	00020	2		
Total Phosphorus (mg/L)	00033	2		

Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
Chlorine Used (kg as Cl ₂)	50320	1		
Chlorine Dosage (mg/L as Cl ₂)	80410	1		
Chlorine Residual (mg/L as Cl ₂)	80420	1		

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Comments
no effluent discharge in March

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month	Year	3 1	2	R
1 2	3 11	0 3	2 0 2 3	20 21	22	80

C.P.					
3 6	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Total COD (mg/L)			110.00	1
	Volatile Suspended Solids (mg/)			80.00	1

3 9	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4		
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4		
	Temperature, Water (°C)	80250	4		
	Un-ionized Ammonia (mg/L)	91012	4		
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	Total COD (mg/L)				

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File No.	Works Number *	Data Period *	Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month: 0 4 2 0 2 3 Year: 0 4 2 0 2 3	3 0	2	R
1 2	3 11	16 19	20 21	22	80

C.P.	3 5	Flows	Parameter Code	Dec.	Monthly Results
12 13		Total Flow (10 ³ m ³)	50010	3	10.083
		Average Daily Flow (10 ³ m ³ /d)	50015	3	0.336
		Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.637
			30 34 35 38 46		

3 5	Bypass	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	# of Occurrences
12 13		Duration (hours)	81680	1		0
			30 34 35 38			

3 6	Raw Sewage	BOD ₅ (mg/L)	00001	0	41	# of Samples
12 13		Suspended Solids (mg/L)	00006	0	57	1
		TKN (mg/L)	00020	2	10.00	1
		Total Phosphorus (mg/L)	00033	1	1.0	1
			30 34 35 38 48 51			

3 9	Final Effluent	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3	38.053	
12 13		Flow Duration (hours)	81680	1	328.0	
		Cell Depth (m)	50290	1		
		CBOD ₅ (mg/L)	00002	1	10.3	3
		BOD ₅ (mg/L)	00001	1		
		Suspended Solids (mg/L)	00006	1	18.7	3
		Ammonia + Ammonium (mg/L)	00019	2	6.13	3
		TKN (mg/L)	00020	2	9.10	3
		Total Phosphorus (mg/L)	00033	2	0.22	3
			30 34 35 38 48 51			

0 9	Disinfection	Chlorine Used (kg as Cl ₂)	50320	1	0.0	
12 13		Chlorine Dosage (mg/L as Cl ₂)	80410	1		
		Chlorine Residual (mg/L as Cl ₂)	80420	1		
			30 34 35 38 48 51			

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4 6	1 1 0 0 0 2 4 4 3	Month	Year	3 1	2	R
1 2	3 11	0 5	2 0 2 3	20 21	22	80

C.P.
3 5
12 13

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	8.190
Average Daily Flow (10 ³ m ³ /d)	50015	3	0.264
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.463

Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
Duration (hours)	81680	1		

Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0	115	1
Suspended Solids (mg/L)	00006	0	124	1
TKN (mg/L)	00020	2	10.60	1
Total Phosphorus (mg/L)	00033	1	3.4	1

Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3	18.737	
Flow Duration (hours)	81680	1	176.0	
Cell Depth (m)	50290	1		
CBOD ₅ (mg/L)	00002	1	26.5	2
BOD ₅ (mg/L)	00001	1		
Suspended Solids (mg/L)	00006	1	21.5	2
Ammonia + Ammonium (mg/L)	00019	2	1.85	2
TKN (mg/L)	00020	2	3.15	2
Total Phosphorus (mg/L)	00033	2	0.09	2

Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
Chlorine Used (kg as Cl ₂)	50320	1	0.0	
Chlorine Dosage (mg/L as Cl ₂)	80410	1		
Chlorine Residual (mg/L as Cl ₂)	80420	1		

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4 6	1 1 0 0 0 2 4 4 3	Month: 0 6 2 0 2 3 Year: 0 6 2 0 2 3	3 0	2	R
1 2	3 11	16 19	20 21	22	80

C.P.
3 5

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	4.586
Average Daily Flow (10 ³ m ³ /d)	50015	3	0.153
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.192

Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
Duration (hours)	81680	1		

Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0	201	1
Suspended Solids (mg/L)	00006	0	290	1
TKN (mg/L)	00020	2	35.20	1
Total Phosphorus (mg/L)	00033	1	8.0	1

Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3		
Flow Duration (hours)	81680	1		
Cell Depth (m)	50290	1		
CBOD ₅ (mg/L)	00002	1		
BOD ₅ (mg/L)	00001	1		
Suspended Solids (mg/L)	00006	1		
Ammonia + Ammonium (mg/L)	00019	2		
TKN (mg/L)	00020	2		
Total Phosphorus (mg/L)	00033	2		

Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
Chlorine Used (kg as Cl ₂)	50320	1		
Chlorine Dosage (mg/L as Cl ₂)	80410	1		
Chlorine Residual (mg/L as Cl ₂)	80420	1		

Operator Telephone Number
519-369-6655

Operator Email Address *
fei.xue@veolia.com

Comments
no discharge in June

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Ministry Contact Email Address *
matthew.shannon@ontario.ca

Project Name
Neustadt Sewage Lagoons

Facility Address

Unit Number	Street Number Lot 4	Street Name Concession 14	PO Box
Municipality/City/Town Neustadt (Municipality of West Grey)		Province ON - Ontario	Postal Code N0G 2N0
Operating Authority Veolia Water Canada Inc.			

Mailing Address

Unit Number 1450	Street Number 555	Street Name Rene-Levesque Blvd West	PO Box
Municipality/City/Town Montreal		Province QC - Quebec	Postal Code H2Z1B1

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 0 6	Year 2 0 2 3	3 0	2	R
1 2	3 11	16	19	20 21	22	80

C.P.					
3 6	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Total COD (mg/L)			266.00	1
	Volatile Suspended Solids (mg/)			237.00	1

3 9	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4		
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4		
	Temperature, Water (°C)	80250	4		
	Un-ionized Ammonia (mg/L)	91012	4		
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	COD				

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File No.	Works Number *	Data Period *	Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	0 7 2 0 2 3	3 1	2	R
1 2	3 11	16 19	20 21	22	80

C.P.							
3 5	Flows	Parameter Code	Dec.	Monthly Results			
12 13	Total Flow (10 ³ m ³)	50010	3	5.323			
	Average Daily Flow (10 ³ m ³ /d)	50015	3	0.172			
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.282			
3 5	Bypass	Parameter Code	Dec.	Monthly Results		# of Occurrences	
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000		0	
	Duration (hours)	81680	1				
3 6	Raw Sewage	Parameter Code	Dec.	Monthly Results		# of Samples	
12 13	BOD ₅ (mg/L)	00001	0	762		1	
	Suspended Solids (mg/L)	00006	0	1220		1	
	TKN (mg/L)	00020	2	134.00		1	
	Total Phosphorus (mg/L)	00033	1	21.1		1	
3 9	Final Effluent	Parameter Code	Dec.	Monthly Results		# of Samples	
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3				
	Flow Duration (hours)	81680	1				
	Cell Depth (m)	50290	1				
	CBOD ₅ (mg/L)	00002	1				
	BOD ₅ (mg/L)	00001	1				
	Suspended Solids (mg/L)	00006	1				
	Ammonia + Ammonium (mg/L)	00019	2				
	TKN (mg/L)	00020	2				
	Total Phosphorus (mg/L)	00033	2				
0 9	Disinfection	Parameter Code	Dec.	Monthly Results		# of Samples	
12 13	Chlorine Used (kg as Cl ₂)	50320	1				
	Chlorine Dosage (mg/L as Cl ₂)	80410	1				
	Chlorine Residual (mg/L as Cl ₂)	80420	1				

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Comments
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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month	Year	3 1	2	R
1 2	3 11	0 8	2 0 2 3	19 20 21	22	80

C.P.						
3 5	Flows	Parameter Code	Dec.	Monthly Results		
12 13	Total Flow (10 ³ m ³)	50010	3	7.637		
	Average Daily Flow (10 ³ m ³ /d)	50015	3	0.246		
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.382		
3 5	Bypass	Parameter Code	Dec.	Monthly Results		# of Occurrences
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000		0
	Duration (hours)	81680	1			
3 6	Raw Sewage	Parameter Code	Dec.	Monthly Results		# of Samples
12 13	BOD ₅ (mg/L)	00001	0	359		1
	Suspended Solids (mg/L)	00006	0	567		1
	TKN (mg/L)	00020	2	26.90		1
	Total Phosphorus (mg/L)	00033	1	4.0		1
3 9	Final Effluent	Parameter Code	Dec.	Monthly Results		# of Samples
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3			
	Flow Duration (hours)	81680	1			
	Cell Depth (m)	50290	1			
	CBOD ₅ (mg/L)	00002	1			
	BOD ₅ (mg/L)	00001	1			
	Suspended Solids (mg/L)	00006	1			
	Ammonia + Ammonium (mg/L)	00019	2			
	TKN (mg/L)	00020	2			
	Total Phosphorus (mg/L)	00033	2			
0 9	Disinfection	Parameter Code	Dec.	Monthly Results		# of Samples
12 13	Chlorine Used (kg as Cl ₂)	50320	1			
	Chlorine Dosage (mg/L as Cl ₂)	80410	1			
	Chlorine Residual (mg/L as Cl ₂)	80420	1			

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month	Year	3 0	2	R
1 2	3 11	0 9	2 0 2 3	19 20 21	22	80

C.P.		3 5		Flows		Parameter Code	Dec.	Monthly Results	
12	13	Total Flow	(10 ³ m ³)	50010	3	5.465			
		Average Daily Flow	(10 ³ m ³ /d)	50015	3	0.182			
		Maximum Daily Flow	(10 ³ m ³ /d)	50020	3	0.224			
3 5		Bypass		50270	3	0.000		# of Occurrences	0
12	13	Plant Bypass Volume	(10 ³ m ³)	81680	1				
		Duration	(hours)						
3 6		Raw Sewage		00001	0	121		# of Samples	1
12	13	BOD ₅	(mg/L)	00006	0	317			1
		Suspended Solids	(mg/L)	00020	2	27.40			1
		TKN	(mg/L)	00033	1	6.0			1
		Total Phosphorus	(mg/L)						
3 9		Final Effluent		50280	3				
12	13	Total Effl. Volume To Watercourse (10 ³ m ³)		81680	1				
		Flow Duration	(hours)	50290	1				
		Cell Depth	(m)	00002	1				
		CBOD ₅	(mg/L)	00001	1				
		BOD ₅	(mg/L)	00006	1				
		Suspended Solids	(mg/L)	00019	2				
		Ammonia + Ammonium	(mg/L)	00020	2				
		TKN	(mg/L)	00033	2				
		Total Phosphorus	(mg/L)						
0 9		Disinfection		50320	1				
12	13	Chlorine Used	(kg as Cl ₂)	80410	1				
		Chlorine Dosage	(mg/L as Cl ₂)	80420	1				
		Chlorine Residual	(mg/L as Cl ₂)						

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month	Year	3 0	2	R
1 2	3 11	0 9	2 0 2 3	20 21	22	80

C.P.		Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
3 6	12 13					
		Total COD (mg/L)			595.00	1
		Volatile Suspended Solids (mg/)			302.00	1

3 9		Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
12	13					
		Alkalinity, Total (mg/L)	00051	4		
		Conductivity 25°C (µS/cm)	91004	4		
		E. Coli (CT/100ml)	91000	4		
		Nitrate, Unfiltered reactive (mg/L)	00022	4		
		Nitrite, Unfiltered reactive (mg/L)	00021	4		
		pH	80770	4		
		Temperature, Water (°C)	80250	4		
		Un-ionized Ammonia (mg/L)	91012	4		
		Dissolved Oxygen (mg/L)	00003	4		
		Hydrogen Sulphide (mg/L)	83008	4		
		COD				

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File No.	Works Number *	Data Period *	Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month: 1 0 2 0 2 3 Year: 1 0 2 0 2 3	3 1	2	R
1 2	3 11	16 19	20 21	22	80

C.P.	3 5	Flows	Parameter Code	Dec.	Monthly Results
12 13		Total Flow (10 ³ m ³)	50010	3	6.510
		Average Daily Flow (10 ³ m ³ /d)	50015	3	0.210
		Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.293
			30 34 35 38 46		

3 5	Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
	Duration (hours)	81680	1		
		30 34 35 38			

3 6	Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	BOD ₅ (mg/L)	00001	0	294	1
	Suspended Solids (mg/L)	00006	0	258	1
	TKN (mg/L)	00020	2	62.90	1
	Total Phosphorus (mg/L)	00033	1	7.6	1
		30 34 35 38 48 51			

3 9	Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3		
	Flow Duration (hours)	81680	1		
	Cell Depth (m)	50290	1		
	CBOD ₅ (mg/L)	00002	1		
	BOD ₅ (mg/L)	00001	1		
	Suspended Solids (mg/L)	00006	1		
	Ammonia + Ammonium (mg/L)	00019	2		
	TKN (mg/L)	00020	2		
	Total Phosphorus (mg/L)	00033	2		
		30 34 35 38 48 51			

0 9	Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Chlorine Used (kg as Cl ₂)	50320	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		
		30 34 35 38 48 51			

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Comments
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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 1 0	Year 2 0 2 3	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.					
3 6	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Total COD (mg/L)			645.00	1
	Volatile Suspended Solids (mg/)			222.00	1

3 9	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4		
	Nitrate, Unfiltered reactive (mg/L)	00022	4		
	Nitrite, Unfiltered reactive (mg/L)	00021	4		
	pH	80770	4		
	Temperature, Water (°C)	80250	4		
	Un-ionized Ammonia (mg/L)	91012	4		
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4		
	COD				

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month	Year	3 0	2	R
1 2	3 11	1 1	2 0 2 3	20 21	22	80

C.P.		3 5		Flows		Parameter Code	Dec.	Monthly Results		
12	13	Total Flow	(10 ³ m ³)	50010	3	7.057				
		Average Daily Flow	(10 ³ m ³ /d)	50015	3	0.235				
		Maximum Daily Flow	(10 ³ m ³ /d)	50020	3	0.346				
3 5		Bypass		50270		3	0.000	# of Occurrences		0
12	13	Plant Bypass Volume	(10 ³ m ³)	81680	1					
		Duration	(hours)							
3 6		Raw Sewage		00001		0	73	# of Samples		1
12	13	BOD ₅	(mg/L)	00006	0	142				
		Suspended Solids	(mg/L)	00020	2	38.40				
		TKN	(mg/L)	00033	1	2.9				
		Total Phosphorus	(mg/L)							
3 9		Final Effluent		50280		3				
12	13	Total Eff. Volume To Watercourse (10 ³ m ³)		81680	1					
		Flow Duration	(hours)	50290	1					
		Cell Depth	(m)	00002	1					
		CBOD ₅	(mg/L)	00001	1					
		BOD ₅	(mg/L)	00006	1					
		Suspended Solids	(mg/L)	00019	2					
		Ammonia + Ammonium	(mg/L)	00020	2					
		TKN	(mg/L)	00033	2					
		Total Phosphorus	(mg/L)							
0 9		Disinfection		50320		1				
12	13	Chlorine Used	(kg as Cl ₂)	80410	1					
		Chlorine Dosage	(mg/L as Cl ₂)	80420	1					
		Chlorine Residual	(mg/L as Cl ₂)							

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File No.	Works Number *	Data Period *	Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month Year 1 2 2 0 2 3	3 1	2	R
1 2	3 11	15 19	20 21	22	80

C.P.	3 5
12 13	

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	9.639
Average Daily Flow (10 ³ m ³ /d)	50015	3	0.311
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.645

Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
Duration (hours)	81680	1		

Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0	337	1
Suspended Solids (mg/L)	00006	0	200	1
TKN (mg/L)	00020	2	34.00	1
Total Phosphorus (mg/L)	00033	1	4.5	1

Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3	34.594	
Flow Duration (hours)	81680	1	312.0	
Cell Depth (m)	50290	1		
CBOD ₅ (mg/L)	00002	1	10.6	5
BOD ₅ (mg/L)	00001	1		
Suspended Solids (mg/L)	00006	1	30.8	5
Ammonia + Ammonium (mg/L)	00019	2	3.84	5
TKN (mg/L)	00020	2	5.92	5
Total Phosphorus (mg/L)	00033	2	0.32	5

Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
Chlorine Used (kg as Cl ₂)	50320	1		
Chlorine Dosage (mg/L as Cl ₂)	80410	1		
Chlorine Residual (mg/L as Cl ₂)	80420	1		

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month	Year	3 1	2	R
1 2	3 11	1 2	2 0 2 3	20 21	22	80

C.P.					
3 6	Raw Sewage	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Total COD (mg/L)			188.00	1
	Volatile Suspended Solids (mg/)			110.00	1

3 9	Final Effluent	Parameter Code	Dec	Monthly Average Results	# of Samples
12 13	Alkalinity, Total (mg/L)	00051	4		
	Conductivity 25°C (µS/cm)	91004	4		
	E. Coli (CT/100ml)	91000	4	78.7800	2
	Nitrate, Unfiltered reactive (mg/L)	00022	4	0.0800	5
	Nitrite, Unfiltered reactive (mg/L)	00021	4	0.0300	5
	pH	80770	4	7.8900	1
	Temperature, Water (°C)	80250	4	3.2000	1
	Un-ionized Ammonia (mg/L)	91012	4	0.0340	5
	Dissolved Oxygen (mg/L)	00003	4		
	Hydrogen Sulphide (mg/L)	83008	4	0.0200	5
	COD			73.0000	1

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Comments

Return completed form to:

- Environmental Monitoring and Reporting Branch, MECP, at WasteWaterReporting@ontario.ca And
- Your Environmental Officer at your local District/Area MECP Office. (Find your local MECP office: <https://www.ontario.ca/environment-and-energy/ministry-environment-district-locator>)