

March 29, 2023

Municipality of West Grey 402813 Grey Road 4 RR#2 Durham, ON N0G 1R0

Attention: Geoff Aitken, Public Works Director

RE: Neustadt Sewage Lagoons 2022 Annual Report

The 2022 Annual Operations Report for the Neustadt Sewage Lagoons is enclosed. The report is prepared in accordance with Environmental Compliance Approval Number 4631-6V4KUY annual report criteria and contains the following required components:

- A summary and interpretation of all influent, monitoring data and a review of the historical trend of the sewage characteristics and flow rates;
- A summary and interpretation of all final effluent monitoring data, including concentration, flow rates, and a comparison to the design objectives and compliance limits in the ECA, including an overview of the success and adequacy of the Works;
- A summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;
- A description of any operating problems encountered and corrective actions taken;
- A summary of all normal and emergency repairs 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 influent and effluent monitoring equipment;
- A description of efforts made and results achieved in meeting the effluent objectives;
- An estimate of the sludge volumes in the lagoon cells. A summary of disposal locations and volumes of sludge 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;
- A summary of all Notice of Modifications to Sewage Works
- A summary of efforts made to achieve conformance with Procedure F-5-1, including but not limited to
 projects undertaken and completed in the sanitary sewer system that result in overall Bypass/Overflow
 elimination including expenditures and proposed projects to eliminate bypass/overflows with estimated
 forecast for the year following that for which the report is submitted and a summary of efforts made to
 achieve conformance with Procedure F-5-5 and establish/maintain a Pollution Prevention and Control
 Plan (PPCP)

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,

VEOLIA WATER CANADA INC.

Greg Prangley Project Manager

Veolia North America

555 Rene-Levesque Blvd W Suite 1450 Montreal, QC H2Z 1B1

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 2022.

The annual average day flow was 209m³/d (16% less than in 2021 and also well under the five year average of 249m³), approximately 50% of the system's design capacity of 418m³/d. The maximum day flow was 679m³ 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 2022 was only about 115m³/d.

In the table below, a comparison of 2021 raw sewage parameters is compared to the five year average of those same parameters.

Raw Sewage Parameter	2022 Avg (mg/L)	Historical Five Year Avg.
TKN	52.5	39.0
TSS	426	281
BOD ₅	263	160
Total P	7.4	4.82

Overall, the 2022 raw sewage concentrations were all a fair bit 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

	Seasonal	Average Concentratio	n, mg/L
	Spring Discharge (April 1-May 31)	Fall Discharge (Nov. 1- Dec. 31)	
Parameter	Final Effluent	Final Effluent	MOE Effluent Limits
CBOD ₅	13.6	3.8	30
Suspended Solids	22.8	5.2	40

Total	0.15	0.16	1
Phosphorus			

Effluent was discharged from the lagoons from April 11-25 and Nov. 28-Dec. 12 inclusive. A total of approximately 62,538m³ was discharged in 2022.

Effluent pH was maintained between 6.0 and 9.0 throughout the discharge period. Monthly MUMP (S1) forms for 2022 are attached.

3 Monitoring Schedule summary (11.4(c))

In 2022, effortw were made to collect monthly raw samples on the first Monday of each month; there were four months where this did not occur (Mar., Aug., Sept. Oct.). August was due to a stat holiday, while the others were delayed because of some operational issues at another West Grey wastewater facility and samples for both are typically collected at the same time.

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. This was installed in time to read the fall flows. The spring flows were estimated.

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)
- Some safety improvements (installed hose bib, replaced some 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 BOD_5 , 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 2022. The calibration report is on file at the plant.

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

		·	ge Concentration ng/L)
Parameter	Spring Discharge	Fall Discharge	Effluent Objectives
CBOD ₅	13.6	3.8	25
Suspended Solids	22.8	5.2	30
Total Phosphorus	0.16	0.16	1

All effluent objectives were achieved in 2022

Average daily influent flow was about 50% of the rated capacity in 2022

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 2022. 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 2022

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

There were no bypass incidents in 2022.

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

The Municipality repaired five manholes where infiltration had previously been found

Municipality of West Grey

Neustadt Wastewater Lagoon System

2022	RAV	V FLOWS	, m³		BYPASSE	s	FINA	L FLOWS	S, m³	BOD:	5/CBOD5	T	SS	TOTAL	_ PHOS	TK	N	Ammonia	Unionized Ammonia mg/L	H2S	E Coli
Month	Total Flow	Avg Day, m³	Max Day, m³	Count	Total Flow, m³	Duration, hrs	Total Flow	Avg Day, m³	Max Day, m³	Raw BOD5	Final CBOD5	Raw	Final	Raw	Final	Raw	Final	Final	Final	Final	Geomean
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2	8,029	287	577	0	n/a	n/a	n/a	n/a	n/a	307.0	n/a	597.0	n/a	8.05	n/a	53.0	n/a	n/a	n/a	n/a	n/a
3	11,185	361	518	0	n/a	n/a	n/a	n/a	n/a	82.0	n/a	71.0	n/a	2.57	n/a	31.7	n/a	n/a	n/a	n/a	n/a
4	8,352	278	347	0	n/a	n/a	50,330	3,355	3,595	235.0	13.6	420.0	22.8	4.89	0.15	36.1	8.3	6.9	0.07	0.01	116
5	6,364	205	251	0	n/a	n/a	n/a	n/a	n/a	287.0	n/a	334.0	n/a	6.86	n/a	55.9	n/a	n/a	n/a	n/a	n/a
6	5,982	199	343	0	n/a	n/a	n/a	n/a	n/a	271.0	n/a	584.0	n/a	5.60	n/a	38.0	n/a	n/a	n/a	n/a	n/a
7	4,233	137	169	0	n/a	n/a	n/a	n/a	n/a	293.0	n/a	465.0	n/a	12.60	n/a	90.2	n/a	n/a	n/a	n/a	n/a
8	4,346	140	224	0	n/a	n/a	n/a	n/a	n/a	122.0	n/a	232.0	n/a	4.75	n/a	49.5	n/a	n/a	n/a	n/a	n/a
9	4,262	142	244	0	n/a	n/a	n/a	n/a	n/a	121.0	n/a	520.0	n/a	10.60	n/a	81.2	n/a	n/a	n/a	n/a	n/a
10	4,672	151	214	0	n/a	n/a	n/a	n/a	n/a	295.0	n/a	806.0	n/a	7.10	n/a	40.0	n/a	n/a	n/a	n/a	n/a
11	4,620	154	276	0	n/a	n/a	2,325	775	872	237.0	1.0	426.0	7.0	7.70	0.15	73.5	1.3	0.1	0.008	0.0	5.0
12	7,502	242	679	0	n/a	n/a	9,883	824	872	428.0	2.8	469.0	4.5	15.30	0.17	61.3	1.23	0.10	0.02	0.01	8.0
Sum	75,980			0			62,538			, and the second											
Average	6,332	209						1,651		263.0	5.8	426.1	11.4	7.4	0.16	52.5	3.6	2.3		0.02	n/a
Max	11,185		679						3,595	478.0	13.6	806.0	22.8	15.3	0.17	90.2		6.9		0.02	116.0
C of A limit		418.0									30.0		40.0		3.00						
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Spring discharge: April 1-May 31 Fall discharge: Nov. 1-Dec. 31



Fields marked with an asterisk (*) are mandatory. Project Name Neustadt Sewage Lagoons **Facility Address** Unit Number PO Box Street Number Street Name Lot 4 Concession 14 Municipality/City/Town Province Postal Code Neustadt (Municipality of West Grey) ON - Ontario N0G 2N0 **Operating Authority** Veolia Water Canada Inc. **Mailing Address** Unit Number Street Name PO Box Street Number 1450 Rene-Levesque Blvd West Municipality/City/Town Province Postal Code H2Z 1B1 Montreal QC - Quebec Data Period * Discharge Update File No. Days Works Number Month Туре Code Year 4 6 1 0 0 2 4 3 0 0 2 2 3 2 R 0 1 22 80 20 C.P. Poec. Parameter Code Monthly Results 3 5 Flows 13 **Total Flow** (103 m³) 50010 3 6.433 3 Average Daily Flow (103 m3/d) 50015 0.208 Maximum Daily Flow (103 m³/d) 50020 3 0.278 35 46 # of Occurrences 3 Bypass 13 Plant Bypass Volume 0.000 50270 3 0 (103 m³) Duration 1 (hours) 81680 30 34 35 3 6 Raw Sewage # of Samples BODs 478 (mg/L) 00001 0 1 1 Suspended Solids 00006 0 189 (mg/L) 2 19.90 1 TKN (mg/L) 00020 1 1 **Total Phosphorus** (mg/L) 00033 2.4 Final Effluent Total Effl. Volume To Watercourse (103 m³) 3 0.000 50280 Flow Duration (hours) 81680 1 Cell Depth 50290 1 (m) CBOD₅ (mg/L) 1 00002 BOD₅ (mg/L) 00001 1 Suspended Solids 00006 1 (mg/L) Ammonia + Ammonium 00019 2 (mg/L) 2 00020 (mg/L) 2 **Total Phosphorus** (mg/L) 00033 9 Disinfection Chlorine Used (kg as Cl₂) 50320 Chlorine Dosage (mg/L as Cl₂) 80410 1 Chlorine Residual (mg/L as Cl₂) 80420 1 Return completed form to: Operator Telephone Number Environmental Monitoring and Reporting Branch, MECP, at 519-369-6655 WasteWaterReporting@ontario.ca And Operator Email Address * Your Environmental Officer at your local District/Area fei.xue@veolia.com MECP Office. Comments Ministry Contact Email Address * matthew.shannon@ontario.ca



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Fields marked with an asterisk (*) are mandatory. Project Name Neustadt Sewage Lagoons **Facility Address** Unit Number PO Box Street Number Street Name Lot 4 Concession 14 Municipality/City/Town Province Postal Code Neustadt (Municipality of West Grey) ON - Ontario N0G 2N0 Operating Authority Veolia Water Canada Inc. **Mailing Address** Unit Number Street Name PO Box Street Number 1450 Rene-Levesque Blvd West Municipality/City/Town Province Postal Code H2Z 1B1 Montreal QC - Quebec Data Period ³ Discharge Update File No. Days Works Number Month Туре Code Year 4 6 1 0 0 2 4 3 0 0 2 2 3 0 2 R 0 4 22 80 16 20 C.P. Poec. Parameter Code Monthly Results 3 5 Flows 13 **Total Flow** (103 m³) 50010 3 8.352 Average Daily Flow (103 m3/d) 50015 3 0.278 Maximum Daily Flow $(10^3 \text{ m}^3/\text{d})$ 50020 3 0.347 35 46 # of Occurrences 3 Bypass 13 Plant Bypass Volume 0.000 50270 3 0 (103 m³) Duration 1 (hours) 81680 30 34 35 3 6 Raw Sewage # of Samples BODs 235 (mg/L) 00001 0 1 420 1 Suspended Solids 00006 0 (mg/L) 2 36.10 1 TKN (mg/L) 00020 1 **Total Phosphorus** (mg/L) 00033 1 4.9 Final Effluent Total Effl. Volume To Watercourse (103 m³) 3 50280 50.330 Flow Duration 336.0 (hours) 81680 1 Cell Depth 50290 1 (m) CBOD₅ (mg/L) 1 5 00002 13.6 BOD₅ (mg/L) 00001 1 Suspended Solids 00006 1 22.8 5 (mg/L) Ammonia + Ammonium 00019 2 6.86 5 (mg/L) 2 5 00020 8.32 (mg/L) 2 5 **Total Phosphorus** (mg/L) 00033 0.15 9 Disinfection Chlorine Used (kg as Cl₂) 50320 Chlorine Dosage (mg/L as Cl₂) 80410 1 Chlorine Residual (mg/L as Cl₂) 80420 1 Return completed form to: Operator Telephone Number Environmental Monitoring and Reporting Branch, MECP, at 519-369-6655 WasteWaterReporting@ontario.ca And Operator Email Address * Your Environmental Officer at your local District/Area fei.xue@veolia.com MECP Office. Comments Ministry Contact Email Address * matthew.shannon@ontario.ca



Project N Neustac	lame It Sewage Lagoons															
Facility	Address															
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	lity/City/Town It (Municipality of We	est Grey)		Province ON - On		rio								Postal		
	g Authority Vater Canada Inc.		•													
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C.P.																
3 6	Raw Sewage		Par	ameter (Co	de	Dec		Mont	hly .	Average	e Resu	ults	A #	of Sample	es
12 13	Total COD (mg/L)					-	1				320	-		•	1	
	Volatile Suspended	l Solids (mg/)									330				1	
	Volumo Gasporiada	Toolido (mg/)														-
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3 9	Final Effluent		Par	ameter (Со	de	Dec	1	Mont	hly	Average	e Resu	ılts	#	of Sample	es
12 13	Alkalinity, Total	(mg/L)		00051			4									
	Conductivity 25°C	(µS/cm)		91004			4									
	E. Coli	(CT/100n	nl)	91000			4				1	16.00	000			5
	Nitrate, Unfiltered rea	ctive (mg/L)		00022			4					0.12	200			5
	Nitrite, Unfiltered read	ctive (mg/L)		00021			4					0.08	300			5
	pH			80770			4					7.51	100			5
	Temperature, Water	(°C)		80250			4					8.52	200			5
	Un-ionized Ammonia	(mg/L)		91012			4					0.06	661			5
	Dissolved Oxygen	(mg/L)		00003			4									
	Hydrogen Sulphide	(mg/L)		83008			4					0.01	100			5
	Total COD (mg/L)											55.00	000			1
								1					\exists			
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Operator 519-369	Telephone Number -6655					. En	vironn	nen		nitor	ing and			Brancl	h, MECP,	at
	Email Address veolia.com				2.	. Yo	ur Env	/iroı	nmenta	al O	<u>@ontari</u> fficer at	your l	ocal [
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Project N Neustac		e Lagoons															
	Address																
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	lity/City/To	own cality of West Gre	ey)		Province ON - Or		ario									stal C	
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<u> </u>	Raw Sewa	age		Par	ameter (Co	de	Dec] #	Mont	hly A	Avera	ge R	esults	 	# o	f Samples
12 13	Total CO								1					70.00	-		1
	Volatile S	Suspended Solids	s (mg/)										2	50.00)		1
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3 9	Final Efflu	ıent		Par	ameter (Co	de	Dec	1	Mont	hly A	Avera	ge R	esults	7	# o	f Samples
12 13	Alkalinity,	Total	(mg/L)		00051			4									
	Conductiv	vity 25°C	(µS/cm)		91004			4									
	E. Coli		(CT/100ml)		91000			4									
	Nitrate, U	nfiltered reactive	(mg/L)		00022			4									
	Nitrite, Un	filtered reactive	(mg/L)		00021			4									
	рН				80770			4]						1		
	-	ure, Water	(°C)		80250			4							1		
		d Ammonia	(mg/L)		91012			4							4		
	Dissolved		(mg/L)		00003			4							-		
	Hydrogen		(mg/L)		83008			4	-						-		
	Total CO	D (mg/L)							-						4		
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Operator 519-369	Telephon	e Number				1			-	eted f			nd Re	eportin	ıa Bı	anch	MECP, at
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Project N Neustad		e Lagoons																	
	Address																		
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12 13	Total CO									-			3-		0.00	1			1
		Suspended Solids	s (mg/)											45	6.00	1			1
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3 9	Final Efflu	ıent		Par	rameter (Co	de	Dec	С	Mon	thly	Ave	erage	Res	sults	P	# o	f Sar	nples
12 13	Alkalinity,	Total	(mg/L)		00051			4											
	Conductiv	rity 25°C	(µS/cm)		91004			4											
	E. Coli		(CT/100ml)		91000)		4											
	Nitrate, U	nfiltered reactive	(mg/L)		00022			4											
	Nitrite, Un	filtered reactive	(mg/L)		00021			4											
	рН				80770			4	-								<u> </u>		
	-	ure, Water	(°C)		80250			4	4								<u> </u>		
		d Ammonia	(mg/L)		91012			4	4								<u> </u>		
	Dissolved		(mg/L)		00003			4	4										
	Hydrogen	D (mg/L)	(mg/L)		83008	•	-	4	\dashv							-			
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Project N Neustad		e Lagoons																	
	Address																		
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12 13	Total CO	DD (mg/L)												580	0.00	ł			1
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3 9	Final Efflu	uent		Par	ameter (Со	de	Dec		Mont	thly	Ave	rage	Resi	ults	P	# of	Sam	ples
12 13	Alkalinity,	Total	(mg/L)		00051			4								Ī			
	Conductiv	vity 25°C	(µS/cm)		91004			4											
	E. Coli		(CT/100ml)		91000			4	4										
		nfiltered reactive	(mg/L)		00022			4											
		nfiltered reactive	(mg/L)		00021			4											
	pH	h.mo \\/-+	(°C)		80770			4	-							-			
		ture, Water d Ammonia	(°C)		80250 91012			4	4										
	Dissolved		(mg/L) (mg/L)		00003			4	+							ł			
		Sulphide	(mg/L)		83008			4	\parallel										
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Project N Neustad		Lagoons																	_			
Facility Address																						
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12 13	Total CO						\exists		1		,			240.00 # # or Samples								
		Suspended Solids	s (mg/)				1							180.0	-							
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3 9	Final Efflu	ent		Paramete	er C	ode		Dec		Mont	hly	Avera	age F	Result	s	#	of S	amples				
12 13	Alkalinity,	Total	(mg/L)	000	51		1	4	1		-				1				7			
	Conductiv	ity 25°C	(µS/cm)	910	04			4							1				1			
	E. Coli		(CT/100ml)	910	00		7	4										1				
	Nitrate, Ur	nfiltered reactive	(mg/L)	000	22			4											7			
	Nitrite, Un	filtered reactive	(mg/L)	000	21			4											1			
	рН			807	70			4														
	Temperati	ure, Water	(°C)	802				4														
		d Ammonia	(mg/L)	910				4														
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Fields marked with an asterisk (*) are mandatory. Project Name Neustadt Sewage Lagoons **Facility Address** Unit Number PO Box Street Number Street Name Lot 4 Concession 14 Municipality/City/Town Province Postal Code Neustadt (Municipality of West Grey) ON - Ontario N0G 2N0 Operating Authority Veolia Water Canada Inc. **Mailing Address** Unit Number Street Name PO Box Street Number 1450 Rene-Levesque Blvd West Municipality/City/Town Province Postal Code H2Z 1B1 Montreal QC - Quebec Data Period ³ Discharge Update File No. Days Works Number Month Туре Code Year 4 6 1 0 0 2 4 3 0 0 2 2 3 0 2 R 0 9 22 80 16 20 C.P. Poec. Parameter Code Monthly Results 3 5 Flows 13 **Total Flow** (103 m³) 50010 3 4.262 3 Average Daily Flow (103 m3/d) 50015 0.142 Maximum Daily Flow $(10^3 \text{ m}^3/\text{d})$ 50020 3 0.244 35 46 # of Occurrences 3 Bypass 13 Plant Bypass Volume 0.000 50270 3 0 (103 m³) Duration 1 (hours) 81680 30 34 35 # of Samples 3 6 Raw Sewage BODs 121 (mg/L) 00001 0 1 1 520 Suspended Solids 00006 0 (mg/L) 2 81.20 1 TKN (mg/L) 00020 1 10.5 1 **Total Phosphorus** (mg/L) 00033 Final Effluent Total Effl. Volume To Watercourse (103 m³) 3 50280 Flow Duration (hours) 81680 1 Cell Depth 50290 1 (m) CBOD₅ (mg/L) 1 00002 BOD₅ (mg/L) 00001 1 Suspended Solids 00006 1 (mg/L) Ammonia + Ammonium 00019 2 (mg/L) 2 00020 (mg/L) 2 **Total Phosphorus** (mg/L) 00033 9 Disinfection Chlorine Used (kg as Cl₂) 50320 Chlorine Dosage (mg/L as Cl₂) 80410 1 Chlorine Residual (mg/L as Cl₂) 80420 1 Return completed form to: Operator Telephone Number Environmental Monitoring and Reporting Branch, MECP, at 519-369-6655 WasteWaterReporting@ontario.ca And Operator Email Address * Your Environmental Officer at your local District/Area fei.xue@veolia.com MECP Office. Ministry Contact Email Address * no discharge in September matthew.shannon@ontario.ca

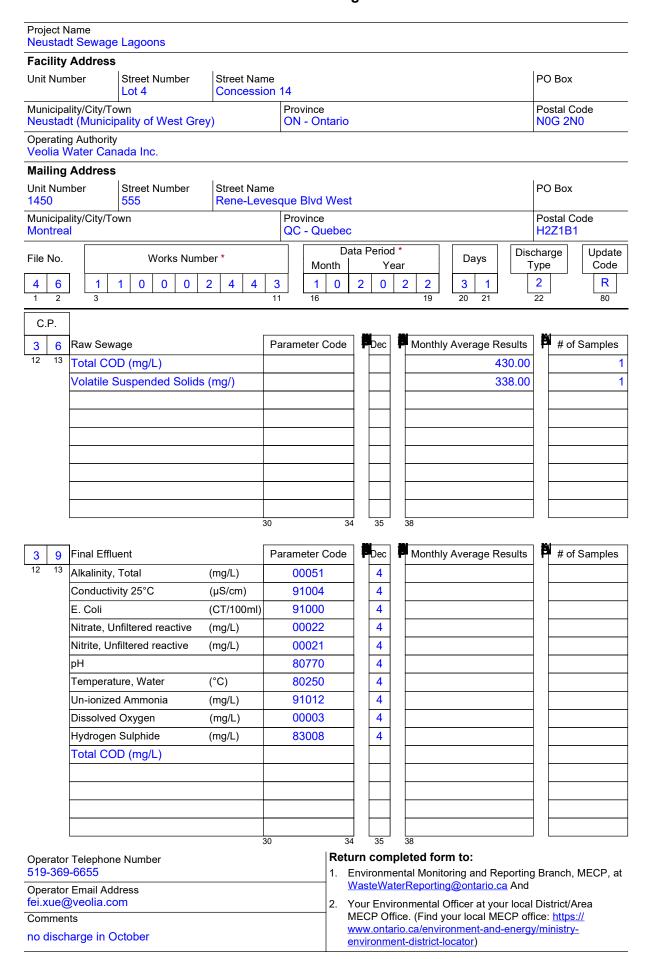


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