

March 16, 2020

Town of Moosonee P.O. Box 727 5 First Avenue Moosonee, ON POL 1Y0

Attention: Trevor Keefe, Public Works Manager

RE: Moosonee Wastewater System 2019 Annual Report

The 2019 Annual Operations Report for the Moosonee wastewater system is enclosed. In accordance with Environmental Compliance Certificate 4370-8WAQVX, the annual report contains the following information;

- 1. Summary and interpretation of all monitoring data and a comparison to the effluent limits outline in Condition 7, including an overview of the success and adequacy of the Works;
- 2. A description of any operating problems encountered and corrective actions taken;
- 3. Summary of any effluent quality assurance or control measures undertaken during the reporting period,
- 4. A summary of all maintenance carried out,
- 5. A summary of the calibration and maintenance carried out on all effluent monitoring equipment;
- 6. A description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6:
- 7. 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
- 8. A summary of any complaints and steps taken to address;
- 9. A summary of all by-pass, spill or abnormal discharge events

If you have any questions regarding the report, we would be pleased to address them and you should contact the undersigned accordingly. We will forward a copy to the MECP – South Porcupine office.

Sincerely,

VEOLIA WATER CANADA INC.

Greg Prangley
Project Manager



# Town of Moosonee 2019 Annual Report for the Moosonee Lagoon System

## A. Summary and Interpretation of Data

The annual average daily flow for the year was estimated to be 1,070m³/d and the maximum daily flow recorded for this year was estimated to be 3,232m³ (occurred on April 25). The annual average design inflow for the plant is 1,466m³/d. This means that the system ran at an average of 73.0% capacity for 2019, down about 5% from 2018.

A summary table of raw sewage flow data, routine monitoring parameters and laboratory results are attached for the year 2019.

Month	Flow m³	Avg. Flow m³/d	Max Flow m³/d
1	26,306	849	1,057
2	32,957	1,177	1,394
3	42,574	1,373	2,037
4	47,766	1,592	3,232
5	48,475	1,564	2,050
6	47,306	1,577	2,723
7	30,245	976	1,310
8	26,167	844	1,120
9	22,317	744	915
10	24,794	800	1,080
11	21,351	712	973
12	20,311	655	812
Total	390,569		
Average		1,070	
Maximum			3,232

It is worth noting that the average daily flow into the drinking water system is 719m³/d, which is about 33% less

#### Effluent Discharge Measurement

Description	Month	Flow	Notes
Final Effluent	May	103,337	It is believed that the flow variance is due
	June	111,159	to a number of factors including weather (precipitation, evaporation) and varying
	Oct.	35,606	cell depths at the end of each discharge
	Nov.	10,520	period. Only one cell was discharged in
Total		260,622	the fall, which also accounts for some of the difference. In addition, it is worth
Variance (to Influent)		129,947	noting that the spring discharge does include some flow from the previous year (2018)

#### **Summary of Effluent Quality**

Performance criteria for BOD<sub>5</sub>, and Total Suspended Solids (TSS) are summarized below:

SPRING DISCHARG	GE MAY 1 to JUNE 30	, 2019	
Parameter	Average Concentration, mg/L	MOE Compliance Concentration, mg/L	Compliance
BOD₅	5.21	25 (discharge period)	YES
TSS	41.5	30 (discharge period)	NO

Due to an extremely high first south cell TSS reading at the beginning of the discharge (256mg/L) and one other during that same period (107mg/L), the overall average TSS during that period exceeded the regulatory discharge limit. The remainder of the samples in that period (9 in total) were under 30mg/L.

FALL DISCHARGE	SEPTEMBER 30 to NO	OVEMBER 30, 2019	
Parameter	Average Concentration, mg/L	MOE Compliance Concentration, mg/L	Compliance
BOD	1.75	25 (discharge period)	YES
TSS	13.3	30 (discharge period)	YES

Only the north cell was discharged in the fall (6 samples total)

2019 S1 forms are also attached to this report

Similar to 2018, the discharge results are better in the fall than in the spring

### B. Environmental/Operating Problems

The sewage infrastructure is inadequate to handle significant increases in flow.

There were two (2) sewage bypasses in 2019; the bypasses totalling 25 hours (vs. 46 hours in 2018). The most significant one was on May 1 totalling 20 hours and due to the failure of the pump at the Main lift station. The other one, also at the Main LS, was on June 10 and due to heavy precipitation. All bypasses were reported to the MECP. A summary of the bypasses is attached.

#### C. Maintenance

Maintenance conducted during 2019 is as follows:

- o Regular inspections of lift stations. Pumps removed a number of times throughout the year to remove blockages
- o Regular pump inspections
- o various electrical work at many of the lift stations
- o annual lift station cleanout performed by Dufour
- o replace rail system at Hutchinson LS (pump #2 location)
- o installed new float system at Firehall LS
- o removed failed rail system(rails and brackets) for pump 1 and also removed the pump at Firehall LS
- o Main LS genset coolant heater replaced
- o significant quantity of algae removed from lagoons
- o hour meter, fuse and breakers replaced at Riverbank LS
- o new pump installed at Ferguson LS

- o new pump installed at Hutchinson LS
- o fix the rail at Hutchinson LS
- o WTP lift station overburdened during spring melt. This forcemain is a 5 inch diameter HDPE with a 2 km run from the WTP L.S. to Bay Rd L.S which may be insufficient for the volume during spring melt. Refer to comment below regarding spring monitoring of Base.

Regular maintenance is maintained in a computerized maintenance management system

Maintenance issues that need to be addressed are listed:

- Full lift station assessment should be looked at and include: Mechanical/Structural/Electrical. Veolia is gathering all relevant lift station information to provide to a structural engineering firm so that an estimated budget amount can be obtained
- The above assessment will allow the town to create a budget plan for future capital replacement/upgrades their infrastructure. The assessment will also help with the operators daily operations and maintenance
- Lagoon effluent valves will be exposed spring 2020 for inspection/replacement where needed. Isolation issues were beginning to appear in Fall of 2018
- algae from the north cell will likely need to be removed
- significant repairs needed for Main, WTP, Airport and Firehall LS

## D. Effluent Quality Assurance

The Environmental Compliance approval requires that a grab sample of the raw sewage be tested monthly for BOD<sub>5</sub>, Suspended Solids (TSS), Total Phosphorus, and Total Kjeldahl Nitrogen (TKN). Raw sewage samples are taken monthly.

S1 forms were submitted as per regulatory requirements. These forms are attached below.

At least five times per seasonal discharge (per lagoon; 10 in total each season assuming both lagoons are discharged), lagoon samples are tested for CBOD<sub>5</sub>, TSS, Ammonia Nitrogen, TP, E. coli and pH. \*Note that only the north cell was discharged in the fall. It was not necessary to discharge the south cell

The influent and effluent samples are sent to Accuracy Environmental Laboratories Ltd, 1470 Government Rd. W., Kirkland Lake, ON. Quality Assurance is achieved by sending the samples to a certified laboratory.

## E. Calibration and Maintenance (Effluent monitoring)

Calibration of the lagoon flow meters was last completed in October 2019 by Lakeside Controls. Results are on file at the water plant.

# F. Effluent Objectives

SPRING DISCHARG	GE MAY 1 to JUNE 30	, 2019	
Parameter	Average Concentration, mg/L	MOE Objective Concentration, mg/L	Met Objective?
BOD	5.21	20 (discharge period)	YES
Suspended Solids	41.5	25 (discharge period)	NO
E. Coli (seasonal geomean)	38.1	150 organism/ 100 ml	YES

FALL DISCHARGE	SEPTEMBER 30 to NO	OVEMBER 30, 2019	
Parameter	Average Concentration, mg/L	MOE Objective Concentration, mg/L	Met Objective?
BOD	1.78	20 (discharge period)	YES
Suspended Solids	2.1	25 (discharge period)	YES
E. coli (seasonal geomean)	9.1	150 organism/ 100 ml	YES

NOTE: During both discharge seasons some of the E. coli data was returned with Non-detect (ND) data. In these cases, the individual result was taken to be the detection limit (5CFU/100mL)

pH was maintained from 7.1 to 8.1 through the discharge periods (regulatory limit is 6.0-9.5)

# G. Sludge

No sludge was removed from the system in 2019, although a significant quantity of algae was removed.

# H. Summary of Complaints

There were no complaints in 2019

# I. Bypass Summary

Bypasses are summarized in Section B and a summary table is attached

Table 1: BY	PASS AND OVE	RFLOW EVENTS														
FACILITY N	AME: Moosonee	• WWT						YEAR:	2019							
															Sample Resi	ults
Date (dd/mm/yy)	Location	Type (PB/SB/STPO/CSO/SSO)	Start Time	Duration (hours)	Volume (1,000m3)		Disinfection (Y/N)	Treatment (Y/N)	Reason Code*	Environmental Impact	Owner/PHU/S AC notified	Other Comments	Clean Up/Preventative Measures	BOD5 (mg/L)	SS (mg/L)	TP (mg/L)
	Main LS	PB= Primary Bypass	1900	20	2000	N	Υ	n	4= Mechanical/Equipment Failure	Bypass to Store Creek	Y	Two YP30 pumps and vac	none	58	150	n/a
10/6/2019	MAin LS	PB= Primary Bypass	1730	5	175.00	N	Υ	N	1= Heavy Precipitation	Bypass to Store Creek	Υ	n/a	none	26.1	90	n/a
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		Works Overflow						5= Pipe Faile	ures (break/leak/plugged)							
Comments:								·								



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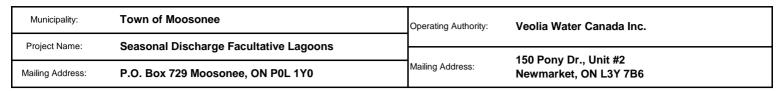


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3 5	FLOWS		eter Code	Dec.		Monthly Results			
12 13	Total Flow	(10 <sup>3</sup> m <sup>3</sup> ) 5 0	0 1 0	3		4 7	7 6 6		
	Average Daily Flow	(10 <sup>3</sup> m <sup>3</sup> /d) 5 0	0 1 5	3		1	. 5 9 2		
	Maximum Daily Flow	(10 <sup>3</sup> m <sup>3</sup> /d) 5 0	0 2 0	3		3	. 2 3 2		
		30	34	35	38		46		
3 5	BYPASS							# of	Occurrences
12 13	Plant Bypass Volume	(10 <sup>3</sup> m <sup>3</sup> ) 5 0	2 7 0	3			. 0	" "	0
	Duration	(.0)	6 8 0	1				48	51
	Duration	(hours) 6 1	34	35	38		•		
	7								
3 6	RAW SEWAGE							#	of Samples
12 13	BOD5	(mg/L) <b>0 0</b>	0 0 1	0		2 0	. 1		1
	Suspended Solids	(mg/L) <b>0 0</b>	0 0 6	0		6 5	. 0		1 1
	TKN	(mg/L) <b>0 0</b>	0 2 0	2		8	. 8 0		1
	Total Phosphorus	(mg/L) <b>0 0</b>	0 3 3	1		0	. 8		1
		30	34	35	38		<del></del>	48	51
3 9	FINAL EFFLUENT								
	1	(103m3) 5 0	2 8 0	3					
	Total Effl. Volume To Watercourse	(10 /	6 8 0	1			0		
	Flow Duration	(* 5)	2 9 0	1			<u>  •                                     </u>		
	Cell Depth	()					<del>  •   -  </del>		
	BOD5	(mg/L) 0 0	0 0 1	1		0	<del>                                     </del>		0
	Suspended Solids	(mg/L) 0 0	0 0 6	1		0	<del>  -        </del>		0
	Ammonia + Ammonium	(mg/L) 0 0	0 1 9	2		0	. 0 0		0
	TKN	(mg/L) <b>0 0</b>	0 2 0	2		0	<del>                                     </del>		0
	Total Phosphorus	(mg/L) <b>0 0</b>	0 3 3	2		0	. 0 0		0
		30	34	35				48	51
0 9 12 13	DISINFECTION				I F				
13	Chlorine Used - kg as Cl2	5 0	3 2 0	1			-		
	Chlorine Dosage - mg/L as Cl2	8 0	4 1 0	1			-		
	Chlorine Residual - mg/L as Cl2	8 0	4 2 0	2					
Operator	Telephone Number:	30	34	35	Return Completed 1	orm to:	46	48	51
οροιαιοί	Trevor Keefe	705-336-2632			_		longuting Durant	10E ct	
E-mail ad	dress:	aveolia com			1. Environmental M WasteWaterReporti			ıı∪⊏, at	
Commen		eveciia.cuiii		$\dashv$	-				
					2. Your Environmen	tal Officer at yo	our local District/Ar	ea MOE Office	. (Find



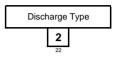


File No. 6

Works Number													
1	1	0	0	0	3	5	1	2					
3								11					

Data	Period
Month	Year
5	19
16	19









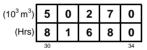
Average Daily Flow Maximum Daily Flow

		Parameter Code							
$(10^3  \text{m}^3)$	5	0	0	1	0				
$(10^3  \text{m}^3/\text{d})$	5	0	0	1	5				
$(10^3  \text{m}^3/\text{d})$	5	0	0	2	0				
	30				34				

Monthly Results									
0	0	0	0	4	8		4	7	5
0	0	0	0	0	1		5	6	3
0	0	0	0	0	2		0	5	0
38									46

#### **BYPASS** 5

Plant Bypass Volume Duration



0	0	0	0	0	2	0	0	0
0	0	0	0	2	0	0		
38								46

# of Occurrences							
0	0	0	1				
48			51				

#### **RAW SEWAGE**

BOD<sub>5</sub> Suspended Solids TKN

Total Phosphorus

(mg/L)	0	0	0	0	1
(mg/L)	0	0	0	0	6
(mg/L)	0	0	0	2	0
(mg/L)	0	0	0	3	3
	30				34

0	
0	
2	
1	

Monthy Average Results										
0	0	0	0	1	8.	4				
0	0	0	0	9	6.	0				
0	0	0	0	1	3.	3	0			
0	0	0	0	0	0.	6				
38							•	48		

# of Samples							
0 0 0 1							
0	0	0	1				
0	0	0	1				
0	0	0	1				
48			51				

#### FINAL EFFLUENT

Total Effl. Volume To Watercourse Flow Duration Cell Depth

BOD<sub>5</sub>

Suspended Solids Ammonia TKN

**Total Phosphorus** 

10 <sup>3</sup> m <sup>3</sup> )	5	0	2	8	0
(hours)	8	1	6	8	0
(m)	5	0	2	9	0
, ,,					
(mg/L)	0	0	0	0	1
(ma/L)	0	0	0	0	6

	30				3/1
mg/L)	0	0	0	3	3
mg/L)	0	0	0	2	0
mg/L)	0	0	0	1	9
mg/L)	0	0	0	0	6
ilig/L)	U	U	U	U	

3	0	0	0	1	0	3
1	0	0	0	2	6	8
1	0	0	0	0	0	0
1	0	0	0	0	1	0
1	0	0	0	1	3	0
2	0	0	0	0	1	4
2	0	0	0	0	1	1
2	0	0	0	0	^	Λ

0	0	0		0	າ •	3	
0	0	0	2	6	8 . 2		
0	0	0	0	0	0 . 0		
					ı		
0	0	0	0	1	0 . 6		
0	0	0	1	3	0.0		_
0	0	0	0	1	4 . 6	0	
0	0	0	0	1	1 . 8	0	
0	0	0	0	0	0 . 2	0	
38							

0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	3
0	0	0	З
0	0	0	1
0	0	0	2
0	0	0	3
48			51

#### 9 DISINFECTION

(kg as Cl<sub>2</sub>) Chlorine Used -Chlorine Dosage - (mg/L as Cl<sub>2</sub>)

Chlorine Residual -  $(mg/L as Cl_2)$ 

5	0	3	2	0
8	0	4	1	0
8	0	4	2	0
30				34

1
1
1
35

0	0	0	0	0	0	0
0	0	0	0	0	0	0
0	0	0	0	0	0	0
0.0						

0	0	0	0
 48			51

Operator's Comments and Contact Person's Phone number & e-mail address: Trevor Keefe 705-336-2632

trevor.keefe@veolia.com

Return completed form to:

1. Environmental Monitoring and Reporting Branch, MOE, at WasteWaterReporting@ontario.ca AND

2. Your Environmental Officer at your local District/Area MOE office. (find your local MOE office: http://www.ene.gov.on.ca/environment)



Municipality:	Town of Moosonee	Operating Authority:	Veolia Water Canada Inc.	
Project Name:	Seasonal Discharge Facultative Lagoons		150 Pony Dr., Unit #2	
Mailing Address:	P.O. Box 729 Moosonee, ON P0L 1Y0	Mailing Address:	Newmarket, ON L3Y 7B6	

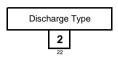
File No.

4 6

			Wo	rks Nu	mber			
1	1	0	0	0	3	5	1	2
3								11

Data	Period
Month	Year
6	19
16	19

Da	iys
3	0
20	21







Average Daily Flow

Maximum Daily Flow

		Parameter Code			
$(10^3  \text{m}^3)$	5	0	0	1	0
$(10^3  \text{m}^3/\text{d})$	5	0	0	1	5
$(10^3  \text{m}^3/\text{d})$	5	0	0	2	0
•	30				34

Dec	
3	
3	
3	
0.5	

Monthly Results									
0	0	0	0	4	7		3	0	6
0	0	0	0	0	1		5	7	6
0	0	0	0	0	2		7	2	3
38									46

3 5 BYPASS

Plant Bypass Volume

Duration

(10 <sup>3</sup> m <sup>3</sup> )	5	0	2	7	0
(Hrs)	8	1	6	8	0
	30				34



0	0	0	0	0	0	1	7	5
0	0	0	0	0	5	0		
38							•	46

# o	f Occ	urren	ces
0	0	0	3
48			51

3 6 RAW SEWAGE

BOD<sub>5</sub>
Suspended Solids
TKN

Total Phosphorus

(mg/L)	0	0	0	0	1
(mg/L)	0	0	0	0	6
(mg/L)	0	0	0	2	0
(mg/L)	0	0	0	3	3
•	30				34

0	
0	
2	
1	

	Monthy Average Results									
0	0	0	0	2	6		1			
0	0	0	0	9	0		0			
0	0	0	0	0	5		5	0		
0	0	0	0	0	0		8			
38								•	48	

# of Samples							
0	0	0	1				
0	0	0	1				
0	0	0	1				
0	0	0	1				
48			51				

3 9 FINAL EFFLUENT

Total Effl. Volume To Watercourse Flow Duration Cell Depth

<sup>2</sup> <sup>13</sup> BOD<sub>5</sub>
 Suspended Solids
 Ammonia

TKN
Total Phosphorus

(10 <sup>3</sup> m <sup>3</sup> )	5	0	2	8	0
(hours)	8	1	6	8	0
(m)	5	0	2	9	0
(mg/L)	0	0	0	0	1
(mg/L)	0	0	0	0	6

ng/L)	0	0	0	0	1	l
ng/L)	0	0	0	0	6	
ng/L)	0	0	0	1	9	
ng/L)	0	0	0	2	0	
ng/L)	0	0	0	3	3	
,	30				34	•

3	0	0	0	1	1	1	1
1	0	0	0	2	5	4	6
1	0	0	0	0	0	0	0
1	0	0	0	0	0	7	0
1	0	0	0	0	1	7	3
2	0	0	0	0	0	5	5
2	0	0	0	0	0	0	0
2	0	0	0	0	0	0	1

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	8
0	0	0	8
0	0	0	8
0	0	0	0
0	0	0	8
48			51

0 9 DISINFECTION

Chlorine Used -  $(kg \ as \ Cl_2)$ Chlorine Dosage -  $(mg/L \ as \ Cl_2)$ Chlorine Residual -  $(mg/L \ as \ Cl_2)$ 

5	0	3	2	0
8	0	4	1	0
8	0	4	2	0
30				34

1	
1	
1	
35	١

0	0	0	0	0	0.	0
0	0	0	0	0	0 .	0
0	0	0	0	0	0.	0

0	0	0	0
48			51

Operator's Comments and Contact Person's Phone number & e-mail address: Trevor Keefe **705-336-2632** trevor.keefe@veolia.com

Return completed form to:

Environmental Monitoring and Reporting Branch, MOE, at WasteWaterReporting@ontario.ca AND

2. Your Environmental Officer at your local District/Area MOE office. (find your local MOE office: http://www.ene.gov.on.ca/environment)

5 9



Project Name:	Seasonal D	Discharge Facultative La	goons			
Mailing Address					PO Box:	700
Unit No. Street No. Street Name  Municipality/City/Town: Town of	f Moosonee		Province:	Ontario	Postal Code:	729 P0L-1Y0
Operating Authority:		/eolia Water Canada Inc	•	Ontario	1 Ostal Oodc.	1 0E-110
Mailing Address		Danie De Linia	#0		DO D	
Unit No. Street No. 150 Street Name  Municipality/City/Town: New	wmarket	Pony Dr., Unit	Province:	Ontario	PO Box:	L3Y 7B6
ividino painty/orty/ Town.			i iovince.	Ontario	1 Ostal Oode.	L317D0
File No. Works Number	Data Period Month Yea	nr D	ays	Discharge Typ	е	Update Code
4 6 1 1 0 0 0 3 5 1 2	0 7 1	9 3	1	2		R
1 2 3 11	16	19 20	21	22		80
C.P.						
3 5 FLOWS Parameter Co	ode Dec.	Mon	thly Results			
	1 0 3		3 0 .	2 4 5		
Average Daily Flow (10 <sup>3</sup> m <sup>3</sup> /d) 5 0 0 1	1 5 3		0 .	9 7 5		
Maximum Daily Flow (10 <sup>3</sup> m <sup>3</sup> /d) 5 0 0 2	2 0 3		1 .	3 1 0		
30	34 35	38		46		
3 5 BYPASS					# of	Occurrences
	7 0 3			0	# 01	0
(*****)	8 0 1		<del>                                     </del>		48	51
Duration (notis) 30	34 35	38	•			
3 6 RAW SEWAGE					# 0	of Samples
BOD5 (mg/L) 0 0 0	0 1 0		1 1 1 .	0		1
(9/2/	0 6 0		1 0 6 .	0		1
(g-)	2 0 2		2 0 .	1 0		1
Total Phosphorus (mg/L) 0 0 0 3	3 3 1	38	1 1 .	5	48	51
					40	31
3 9 FINAL EFFLUENT						
iotal Zim volume to vialoresares (10 m.)	8 0 3		-	0		
Flow Duration (Hrs) 8 1 6 8	8 0 1		-			
Cell Depth (m) 5 0 2 9	9 0 1					
BOD5 (mg/L) 0 0 0 0	0 1 1		0 .	0		0
Suspended Solids (mg/L) 0 0 0 0	0 6 1		0 .	0		0
Ammonia + Ammonium (mg/L) 0 0 0 1	1 9 2		0 .	0 0		0
TKN (mg/L) 0 0 0 2	2 0 2		0 .	0 0		0
(9.2)	3 3 2		0.	0 0		0
30	34 35				48	51
0 9 DISINFECTION  12 13 Chlorine Used - kg as Cl2 5 0 3 2	2 0 1					
Chlorine Used - kg as Cl2	1 0 1		-	_		
Childring Boolage HighE at Cit.	2 0 2		-			
Chlorine Residual - mg/L as Cl2  8 0 4 2	34 35	38	-	46	48	51
Operator Telephone Number:		Return Completed form	to:			
Trevor Keefe 705-336-2632 E-mail address:	-	1. Environmental Monito	ring and Repo	ting Branch, N	MOE, at	
Trevor.Keefe@veolia.com		WasteWaterReporting@	ontario.ca AND			



Project N			Seaso	nal	Discharge F	acultativ	e Lagoo	ns			
Mailing A		Ctroat Name								РО Вох:	729
Unit No. Municipa	Street No. lity/City/Town:	Street Name	own of Moosonee	e .			Prov	vince:	Ontario	Postal Code:	P0L-1Y0
	g Authority:				Veolia Wate	Canada					
Mailing A Unit No.	ddress Street No. 15	50 Street Name			P	ony Dr.,	Unit #2			PO Box:	
	lity/City/Town:		Newmarket					vince:	Ontario	Postal Code:	L3Y 7B6
File No.	Works Nu	mhor	Data P	Perioc			Dava	]	Diagharga Ti	mo.	Update Code
4 6			Month	Ye			Days		Discharge Ty	/pe	
1 2	1 1 0 0 0	3 5 1 2	0 8	1	19		20 21		22		<b>R</b>
C.P.											
3 5	FLOWS	Paran	neter Code	Dec.			Monthly R	esults			
12 13	Total Flow	(10 <sup>3</sup> m <sup>3</sup> ) 5 0	0 1 0	3				2 6 .	1 6 7		
,	Average Daily Flow	(10 <sup>3</sup> m <sup>3</sup> /d) <b>5 0</b>	0 1 5	3				0 .	8 4 4		
ı	Maximum Daily Flow	(10 <sup>3</sup> m <sup>3</sup> /d) 5 0	0 2 0	3				1 .	1 2 0		
	•	30	34	35	38		<b>!</b>		46		
3 5	BYPASS									# of	Occurrences
12 13	Plant Bypass Volume	(10 <sup>3</sup> m <sup>3</sup> ) 5 0	2 7 0	3					0		0
I	Duration	(hours) 8 1	6 8 0	1				<u>-</u>		48	51
		30	34	35	38			<del></del>			
3 6	RAW SEWAGE									#	of Samples
12 13	BOD5	(mg/L) 0 0	0 0 1	0				3 9 .	0		1
	Suspended Solids	(mg/L) <b>0 0</b>	0 0 6	0			1	1 6 .	0		1
	TKN	(mg/L) <b>0 0</b>	0 2 0	2				1 5 .	1 0		1
-	Total Phosphorus	(mg/L) <b>0 0</b>	0 3 3	1				1 .	2		1
	•	30	34	35	38					48	51
3 9	FINAL EFFLUENT										
	Total Effl. Volume To Watercourse	(10 <sup>3</sup> m <sup>3</sup> ) 5 0	2 8 0	3					0		
	Flow Duration	(Hrs) 8 1	6 8 0	1				-			
	Cell Depth	(m) 5 0	2 9 0	1				-			
	BOD5	(mg/L) <b>0 0</b>	0 0 1	1				0 .	0		0
	Suspended Solids	(mg/L) <b>0 0</b>	0 0 6	1				0.	0		0
	Ammonia + Ammonium	(mg/L) <b>0 0</b>	0 1 9	2				0.	0 0		0
	TKN	(mg/L) <b>0 0</b>	0 2 0	2				0.	0 0		0
	Total Phosphorus	(mg/L) <b>0 0</b>	0 3 3	2				0.	0 0		0
		30	34	35				•	• •	48	51
	DISINFECTION			,				, , , ,			
12 13	Chlorine Used - kg as Cl2	5 0	3 2 0	1				-			
(	Chlorine Dosage - mg/L as Cl2	8 0	4 1 0	1							
(	Chlorine Residual - mg/L as Cl2	8 0	4 2 0	<b>2</b>	38						
Operator Te	elephone Number:	30	34		Return Com	pleted fo	orm to:		46	48	51
	Trevor Keefe 70	5-336-2632						and Repo	rting Branch,	MOE, at	
E-mail add	ress: Trevor.Keefe@\	veolia.com			WasteWater					•	
Comments	:				2. Your Envi	ronment	al Office	r at your l	ocal District/A	Area MOE Office	. (Find



Project I			Seaso	nal	Discharge Facultative	e Lagoon	S			
Mailing /		[o							DO D	700
Unit No.		Street Name	4 14			Dua		Ontovio	PO Box:	729
	ality/City/Town: ng Authority:	10	wn of Moosonee		Veolia Water Canada	Prov Inc.	ince:	Ontario	Postal Code:	P0L-1Y0
Mailing /					TOOMA TRACOT GAMAGA					
Unit No.		150 Street Name			Pony Dr.,	Unit #2			PO Box:	
Municip	ality/City/Town:		Newmarket			Prov	ince:	Ontario	Postal Code:	L3Y 7B6
File No.	Works N	Number	Data P	erio	i	Days	1	Discharge Typ	20	Update Code
4 6			Month	Ye		<u> </u>		2		
1 2	1 1 0 0 0 0	3 5 1 2	0 9	1	19	20 21		22		<b>R</b>
C.P.										
3 5	FLOWS	Param	eter Code	Dec.		Monthly Re	sults			
12 13	Total Flow	<sub>(10³m³)</sub> 5 0	0 1 0	3			2 2 .	3 1 7		
	Average Daily Flow	(10 <sup>3</sup> m <sup>3</sup> /d) <b>5 0</b>	0 1 5	3			0 .	7 4 3		
	Maximum Daily Flow	(10 <sup>3</sup> m <sup>3</sup> /d) <b>5 0</b>	0 2 0	3			0 .	9 1 5		
		30	34	35	38			46		
3 5	DVD100									
12 13	BYPASS	(10³m³) <b>5 0</b>	2 7 0	3					# of	Occurrences
	Plant Bypass Volume	(10 111 )		1			-   -	0	48	51
	Duration	(hours) 8 1	6 8 0	35	38				40	31
		30	34	55	30					
3 6	RAW SEWAGE								#	of Samples
12 13	BOD5	(mg/L) 0 0	0 0 1	0			1 5 .	0		1
	Suspended Solids	(mg/L) <b>0 0</b>	0 0 6	0			2 1 .	0		1
	TKN	(mg/L) <b>0 0</b>	0 2 0	2			1 2	1 0		1
	Total Phosphorus	(mg/L) <b>0 0</b>	0 3 3	1				3		1
	Total i Hoophordo	30	34	35	38		0  •		48	51
2 0	1									
3 9	FINAL EFFLUENT	[ <b>5</b>		2						
	Total Effl. Volume To Watercourse	(10 <sup>3</sup> m <sup>3</sup> ) 5 0	2 8 0	3			-   -	0		
	Flow Duration	(Hrs) 8 1		1			-			
	Cell Depth	(m) 5 0		1						
	BOD5	(mg/L) <b>0 0</b>	0 0 1	1			0 .	0		0
	Suspended Solids	(mg/L) <b>0 0</b>	0 0 6	1			0 .	0		0
	Ammonia + Ammonium	(mg/L) <b>0 0</b>	0 1 9	2			0 .	0 0		0
	TKN	(mg/L) <b>0 0</b>	0 2 0	2			0 .	0 0		0
	Total Phosphorus	(mg/L) <b>0 0</b>	0 3 3	2			0 .	0 0		0
		30	34	35					48	51
0 9	DISINFECTION									
12 13	Chlorine Used - kg as Cl2	5 0	3 2 0	1						
	Chlorine Dosage - mg/L as Cl2	8 0	4 1 0	1						
	Chlorine Residual - mg/L as Cl2	8 0	4 2 0	2						
		30	34	35	38			46	48	51
Operator 7	Telephone Number:	705 006 0606			Return Completed for	rm to:				
E-mail ad					1. Environmental Mo				MOE, at	
Commont	Trevor.Keefe	@veolia.com			WasteWaterReportin	y@ontar	o.ca ANI	,		



Municipality:	Town of Moosonee	Operating Authority:	Veolia Water Canada Inc.	
Project Name:	Seasonal Discharge Facultative Lagoons		450 Bony Dr. Unit #2	
Mailing Address: P.O. Box 729 Moosonee, ON P0L 1Y0		Mailing Address:	150 Pony Dr., Unit #2 Newmarket, ON L3Y 7B6	

File No.

4 6

	Works Number								
1	1 1 0 0 0 3 5 1								
3								11	

Data Period					
Month	Year				
10	19				
16	19				









Total Flow

Average Daily Flow

Maximum Daily Flow

	Parameter Code							
$(10^3  \text{m}^3)$	5	0	0	1	0			
$(10^3  \text{m}^3/\text{d})$	5	0	0	1	5			
$(10^3  \text{m}^3/\text{d})$	5	0	0	2	0			
	30				34			

Dec	
3	
3	
3	

Monthly Results									
0	0	0	0	2	4		7	9	4
0	0	0	0	0	0		8	0	0
0	0	0	0	0	1		0	8	0
38									46

3 5 BYPASS

Plant Bypass Volume

Duration

(10 <sup>3</sup> m <sup>3</sup> )	5	0	2	7	0
(Hrs)	8	1	6	8	0
	30				34



0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0		
38							•	46

# o	f Occ	urren	ces
0	0	0	0
48			51

3 6 RAW SEWAGE

 $\mathrm{BOD}_5$  Suspended Solids TKN

Total Phosphorus

(mg/L)	0	0	0	0	1
(mg/L)	0	0	0	0	6
(mg/L)	0	0	0	2	0
(mg/L)	0	0	0	3	3
	30				34

0	
0	
2	
1	

Monthy Average Results										
0	0	0	0	0	1		0			
0	0	0	0	1	2		0			
0	0	0	0	0	4		3	0		
0	0	0	0	0	0		1			
38								•	48	

#	of Sa	ample	s
0	0	0	1
0	0	0	1
0	0	0	1
0	0	0	1
48			51

3 9 FINAL EFFLUENT

Total Effl. Volume To Watercourse Flow Duration Cell Depth

<sup>2</sup> <sup>13</sup> BOD<sub>5</sub>

Suspended Solids

Ammonia TKN

Total Phosphorus

(4.03 3)	_				_
$(10^3  \text{m}^3)$	5	0	2	8	U
(hours)	8	1	6	8	0
(m)	5	0	2	9	0
(mg/L)	0	0	0	0	1
(mg/L)	0	0	0	0	6

	30				34	
(mg/L)	0	0	0	3	3	
(mg/L)	0	0	0	2	0	
(mg/L)	0	0	0	1	9	
(mg/L)	0	0	0	0	6	
(mg/L)	0	0	0	0	1	

3	0	0	0	0	3	5 . 6	0	6
1	0	0	0	0	8	7 . 2		
1	0	0	0	0	0	0 . 0		
1	0	0	0	0	0	1 . 9		
1	0	0	0	0	1	1 . 2		_
2	0	0	0	0	0	5 . 2	0	
2	0	0	0	0	0	0 . 0	0	
2	0	0	0	0	0	0 . 0	6	
35	38							

0	0	1	9					
0	0	0	0					
0	0	0	0					
0	0	0	5					
0	0	0	5					
0	0	0	5					
0	0	0	0					
0	0	0	5					
48			51					

0 9 DISINFECTION

Chlorine Used -  $(kg \ as \ Cl_2)$ Chlorine Dosage -  $(mg/L \ as \ Cl_2)$ Chlorine Residual -  $(mg/L \ as \ Cl_2)$ 

5	0	3	2	0
8	0	4	1	0
8	0	4	2	0
30				34

1	
1	
1	
35	

0	0	0	0	0	0 . 0
0	0	0	0	0	0 . 0
0	0	0	0	0	0.0
	0 0	0 0 0 0 0 0	0 0 0	0 0 0 0	0 0 0 0 0

0	0	0	0
48	•		51

Operator's Comments and Contact Person's Phone number & e-mail address: Kejia Zhang **705-336-2632** kejia.zhang@veolia.com

Return completed form to:

Environmental Monitoring and Reporting Branch, MOE, at WasteWaterReporting@ontario.ca AND

2. Your Environmental Officer at your local District/Area MOE office. (find your local MOE office: http://www.ene.gov.on.ca/environment)



Municipality:	Town of Moosonee	Operating Authority:	Veolia Water Canada Inc.  150 Pony Dr., Unit #2 Newmarket, ON L3Y 7B6	
Project Name:	Seasonal Discharge Facultative Lagoons			
Mailing Address:	P.O. Box 729 Moosonee, ON P0L 1Y0	Mailing Address:		

File No.

4 6

Works Number								
1	1	0	0	0	3	5	1	2
3								11

Data	Data Period				
Month	Year				
11	19				
16	19				









Average Daily Flow

Maximum Daily Flow

	Parameter Code				
$(10^3  \text{m}^3)$	5	0	0	1	0
10 <sup>3</sup> m <sup>3</sup> /d)	5	0	0	1	5
10 <sup>3</sup> m <sup>3</sup> /d)	5	0	0	2	0
•	30				34

Dec	
3	
3	
3	
0.5	

Monthly Results								
0	0	0	0	2	1	. 3	5	1
0	0	0	0	0	0	. 7	1	2
0	0	0	0	0	0	. 9	7	3
38								46

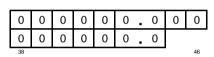
3 5 BYPASS

Plant Bypass Volume

Duration

(10 <sup>3</sup> m <sup>3</sup> )	5	0	2	7	0
(Hrs)	8	1	6	8	0
	30				34





# of Occurrences					
0	0	0	0		
48			51		

3 6 RAW SEWAGE

BOD<sub>5</sub>
Suspended Solids
TKN

Total Phosphorus

(mg/L)	0	0	0	0	1
(mg/L)	0	0	0	0	6
(mg/L)	0	0	0	2	0
(mg/L)	0	0	0	3	3
	30				34

	_	
0		(
0		(
2		(
1		(
 		_

Monthy Average Results									
0	0	0	0	0	2		0		
0	0	0	0	2	0		0		
0	0	0	0	0	3		9	0	
0	0	0	0	0	0		1		
38								•	48

# of Samples								
0	0	0	1					
0	0	0	1					
0	0	0	1					
0	0	0	1					
48			51					

3 9 FINAL EFFLUENT

Total Effl. Volume To Watercourse Flow Duration Cell Depth

<sup>2</sup> <sup>13</sup> BOD<sub>5</sub>

Suspended Solids

Ammonia TKN

Total Phosphorus

$(10^3  \text{m}^3)$	5	0	2	8	0
(hours)	8	1	6	8	0
(m)	5	0	2	9	0
(mg/L)	0	0	0	0	1

(mg/L)	0	0	U	0	1
(mg/L)	0	0	0	0	6
(mg/L)	0	0	0	1	9
(mg/L)	0	0	0	2	0
(mg/L)	0	0	0	3	3
1	30				34

3	0
1	0
1	0
1	0
1	0
2	0
2	0

0	0	0	0	1	0	5	2	
0	0	0	0	3	0	0		
0	0	0	0	0	0	0		
0	0	0	0	0	1	0		
0	0	0	0	2	4	0		
0	0	0	0	0	3	9	2	
0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	4	
38								

0	0	0	8
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	1
0	0	0	1
0	0	0	0
0	0	0	1
48			51

0 9 DISINFECTION

Chlorine Used -  $(kg \ as \ Cl_2)$ Chlorine Dosage -  $(mg/L \ as \ Cl_2)$ Chlorine Residual -  $(mg/L \ as \ Cl_2)$ 

5	0	3	2	0
8	0	4	1	0
8	0	4	2	0
30				34

1	
1	
1	
35	

0	0	0	0	0	0 . 0
0	0	0	0	0	0 . 0
0	0	0	0	0	0 . 0
20					

0	0	0	0
48			51

Operator's Comments and Contact Person's Phone number & e-mail address: Kejia Zhang **705-336-2632** kejia.zhang@veolia.com

Return completed form to:

Environmental Monitoring and Reporting Branch, MOE, at WasteWaterReporting@ontario.ca AND

2. Your Environmental Officer at your local District/Area MOE office. (find your local MOE office: http://www.ene.gov.on.ca/environment)

Project Name: Seasonal Discharge Facultative Lagoons													
Mailing Address													
Unit No.	Street No. ality/City/Town:	Street Name	own of Mooson	20		l <sub>e</sub>	Province:	Ontario	PO Box:	729 P0L-1Y0			
	ig Authority:	10	WIT OT WIOOSOTI		Veolia Water C		TOVITICE.	Ontario	r ostal Gode.	FUL-110			
Mailing A	Address	ſ											
Unit No.		Street Name			Por	ny Dr., Unit #			PO Box:				
Municipa	ality/City/Town:		Newmarket			H	Province:	Ontario	Postal Code:	L3Y 7B6			
File No.	Works N	umber	Data Month	Period Ye		Day	s	Discharge Type		Update Code			
4 6	1 1 0 0 0	3 5 1 2	1 2		9	3	1	2		R			
1 2	3	11	16		19		21	22		80			
	Ī												
C.P.				_									
12 13	FLOWS	5   0	neter Code 0 1 0	Dec.		Month	y Results						
	Total Flow	(.0)		3			2 0 .	3 1 1					
	Average Daily Flow	(10 <sup>3</sup> m <sup>3</sup> /d) 5 0	0 1 5				0 .	6 5 5					
	Maximum Daily Flow	(10 <sup>3</sup> m <sup>3</sup> /d) 5 0	0 2 0	35	38		0 .	8 1 2					
								46					
3 5	BYPASS								# of	Occurrences			
12 13	Plant Bypass Volume	(10 <sup>3</sup> m <sup>3</sup> ) 5 0	2 7 0	3				0		0			
	Duration	(hours) 8 1	6 8 0	1					48	51			
		30	34	35	38								
3 6	RAW SEWAGE									of Samples			
12 13	ļ	(mg/L) <b>0 0</b>	0 0 1	0				6		<del></del>			
	BOD5	(9/2)	0 0 6	0			3 .	6		1			
	Suspended Solids	(9, =)	0 2 0	2			9 .	0		1			
	TKN	(9/2/	0 3 3	1			6 .	6 0		1			
	Total Phosphorus	(mg/L) 0 0	34	35	38		0 .	4	48	51			
									10	01			
3 9	FINAL EFFLUENT												
	Total Effl. Volume To Watercourse	$(10^3 \text{m}^3)$ 5 0	2 8 0	3			-   -	0					
	Flow Duration	(Hrs) 8 1	6 8 0	1									
	Cell Depth	(m) 5 0	2 9 0	1									
	BOD5	(mg/L) <b>0 0</b>	0 0 1	1			0 .	0		0			
	Suspended Solids	(mg/L) <b>0 0</b>	0 0 6	1			0.	0		0			
	Ammonia + Ammonium	(mg/L) <b>0 0</b>	0 1 9	2			0 .	0 0		0			
	TKN	(mg/L) <b>0 0</b>	0 2 0	2			0.	0 0		0			
	Total Phosphorus	(mg/L) <b>0 0</b>	0 3 3	2			0 .	0 0		0			
		30	34	35	<u> </u>				48	51			
	DISINFECTION												
12 13	Chlorine Used - kg as Cl2	5 0	3 2 0	1									
	Chlorine Dosage - mg/L as Cl2	8 0	4 1 0	1									
	Chlorine Residual - mg/L as Cl2	8 0	4 2 0	<b>2</b>									
Operator -	Telephone Number:	Return Compl	ated form to		46	48	51						
Kejia Zhang 705-336-2632					-			rting Branch, M	IOE at				
E-mail address:  Kejia.Zhang@veolia.com					WasteWaterRe				JCE, dl				
Comment		+											