THE CORPORATION OF THE TOWN OF



2021 Annual Wastewater Performance Report

Manager of Public Works, David Armstrong Water and Wastewater Utilities Superintendent, Don Richards

January 24, 2022



EXECUTIVE SUMMARY

The Corporation of the Town of Gananoque's Public Utilities Division is pleased to provide the 2021 Annual Wastewater Performance Report. The purpose of this report is to keep the public and Council informed regarding the quality of the Town's Wastewater Treatment and Collection System.

The employees of the Town of Gananoque are committed to and share in the responsibilities for implementing, maintaining, and contributing to the continual improvement of the wastewater system.

This Annual Wastewater Performance Report is prepared in accordance with the Certificate of Approval # 0999-7X8QL3. Included with this report are analytical data, plant flows, process flow schematic and the overall performance of parameter removals.

David Armstrong Manager of Public Works

Don Richarda

Don Richards Water and Wastewater Utilities Superintendent



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LIST OF ACRONYMS & DEFINITIONS

Annual Average Concentration	The arithmetic mean of all daily or weekly concentrations, of a contaminant measured during a calendar year.
Annual Average Loading	The value obtained by multiplying the <i>Annual Average</i> <i>Concentration</i> of a contaminant by the <i>Average Daily Flow</i> .
Average Daily Flow	The cumulative total sewage flow to the sewage works during a calendar year, divided by the number of days during which sewage was flowing to the sewage works that year.
C of A	Certificate of Approval
CFU	Colony Forming Units
L/s	litres per second
m3/d	cubic meters per day
mg/L	milligrams per litre
mL	Milliliter
ML/d	Mega (million) litres per day
MECP	Ministry of the Environment, Conservation and Parks (Ontario)
МОН	Medical Officer of Health
Monthly Average Concentration	The arithmetic mean of all daily or weekly concentrations of a contaminant by the <i>Average Daily Flow</i> over the calendar month.
Monthly Average Loading	The value obtained by multiplying the <i>Monthly Average</i> <i>Concentration</i> of a contaminate by the <i>Average Daily Flow</i> .
O. Reg.	Ontario Regulation



1. Introduction

The following 2021 Annual Wastewater Performance Report is submitted in accordance with Condition 8(4) (a) through (i) of the Certificate of Approval (CofA) # 0999-7X8QL3 for the Gananoque Sewage Lagoons. This report has been prepared by the Town of Gananoque's Public Utilities Staff.

2. Facility Description

The Gananoque Sewage Lagoons have been in operation for more than 50 years. The facility is located north of Highway 401, occupying approximately a 1.5 sq. km (150 ha) parcel of land consisting of 3 Cells.

Raw sewage is received in Cell 1 from the East End Pumping Station (EEPS) through a 400mm diameter forcemain. At the EEPS, alum is added to assist with the reduction of phosphorus and total suspended solids. Once the sewage enters the first cell it flows from one cell to the next allowing the settling of solids and reduction of dissolved nutrients. The final effluent of the Lagoon then discharges to the St Lawrence River.

Refer to "Appendix A" to review the systematic drawing

3. Monitoring Raw Data and Effluent Limits / Objectives

The Lagoon operated well during 2021 meeting all regulatory parameters.

Refer to **"Appendix B"** to review the flows, raw influent and treated effluent result summaries.

Notes: CBOD5, TSS are annual averages, while Total P. is a monthly average. pH is maintained between 5.5 and 9.5 at all time.



2021 Annual Wastewater Performance Report Effluent Limits and Objectives

Effluent	Annual	CofA	CofA	Annual	CofA	CofA
Parameter	Average	Concentration	Concentration	Average	Loading	Loading
	Concentration	Objective in	Limit in mg/l	Loading	Objective	Limit in
	in mg/l	mg/l		in	in	kg/day
				kg/day	kg/day	
CBOD ₅	8.58	25.0	30.0	28.20	133	159
Total						
Suspended	16.56	25.0	30.0	56.06	133	159
Solids						

Effluent	Monthly	CofA	CofA	Monthly	CofA	CofA
Parameter	Average	Concentration	Concentration	Average	Loading	Loading
	Concentration	Objective in	Limit in mg/l	Loading	Objective	Limit in
	in mg/l	mg/l		in	in	kg/day
				kg/day	kg/day	
Total Phosphorous	0.46	1.0	1.0	1.50	5.30	5.30

Effluent Parameter	Annual Minimum	Annual Maximum	CofA Concentration Min/Max Range
рН	7.0	8.7	5.5 to 9.5

	Annual Average	Annual Average (Geometric
Effluent	(Geometric Mean	Mean Density) Objective
Parameter	Density) Count	Count
	organisms/100ml	organisms/100ml
E. Coli.	63.58	200

Annual Raw Results

Raw Water Parameter	Annual Average Concentration in mg/l	Annual Average Loading kg/Day
CBOD₅	115.98	334.65
Total Suspended Solids	200.08	577.28
Total Phosphorous	4.65	13.33



3.1 Flow Data and Overflows

The annual average daily effluent flow for 2021 was 3,337 m3 and the annual average daily influent flow was 2,940m3. Weather conditions account for variations in flow differentials throughout the year.

3.2 Bypasses and Overflows

There were 3 bypasses /overflow events during the year which occurred at the Lagoon. All events were reported to the Spills Action Centre.

Date	Location	Event	Volume	Duration
15-July-2021	Lagoon	Bypass	73.8m3	41 Minutes
26-October-2021	Lagoon	Bypass	570.6m3	5 Hours 28 Minutes
12-November-2021	Lagoon	Bypass	862m3	9 Days 23 Hours 29 Minutes

4.0 Operating Problems Encountered and Corrective Action

The Town of Gananoque completed a Lagoon de-sludging project in 2020 which consisted of the removal of a large quantity of sludge and vegetation from Cell 1. This improved the final effluent quality, but for a short period contributed to increased E.coli results from January to March 2021.

2021 Monthly E.coli Averages

Month	Monthly Average of E.coli (cfu/100ml)
January	1753.75
February	4921.15
March	1251.65
April	6.11
Мау	3.55
June	2.88
July	7.12
August	43.24
September	8.32
October	114.61
November	266.29
December	65.13



4.1 Maintenance on Major Structures and Equipment

All works are subject to the annual budget process and approval by Council. A 10 Year Capital Equipment Replacement Plan has been developed which includes an extensive breakdown of all capital equipment that requires allocated funds for refurbishment or replacement.

Refer to **"Appendix C"** to review the 2021 capital project highlights.

4.2 Effluent Quality Assurances/ Control Measure

The Corporation of the Town of Gananoque is committed to comply with all applicable legislation and regulatory requirements, as it pertains to wastewater effluent quality, environmental protection, and customer satisfaction.

Gananoque continues to achieve these goals through the implementation of a Quality Management System comprised of policies, procedures, and forms. These demonstrate risk-based treatment process evaluation, Operating Authority personnel competency, open communications, appropriate contingency/incident response measures and response to consumers' concerns in a timely manner.

The employees involved within the Wastewater System share responsibilities of implementing, maintaining and contributing to the continual improvement of the Wastewater QMS.

Refer to **"Appendix D"** to review the Ministry of the Environment, Conservation and Parks Assessment Report.

5.0 Calibrations/Maintenance of Effluent Monitoring Equipment

The influent, effluent and pump station flow meters are calibrated annually for accuracy to within plus or minus 10 percent (+/- 10%) of actual flowrate. The last annual calibration was completed on October 29th, 2021.

6.0 Key Contacts

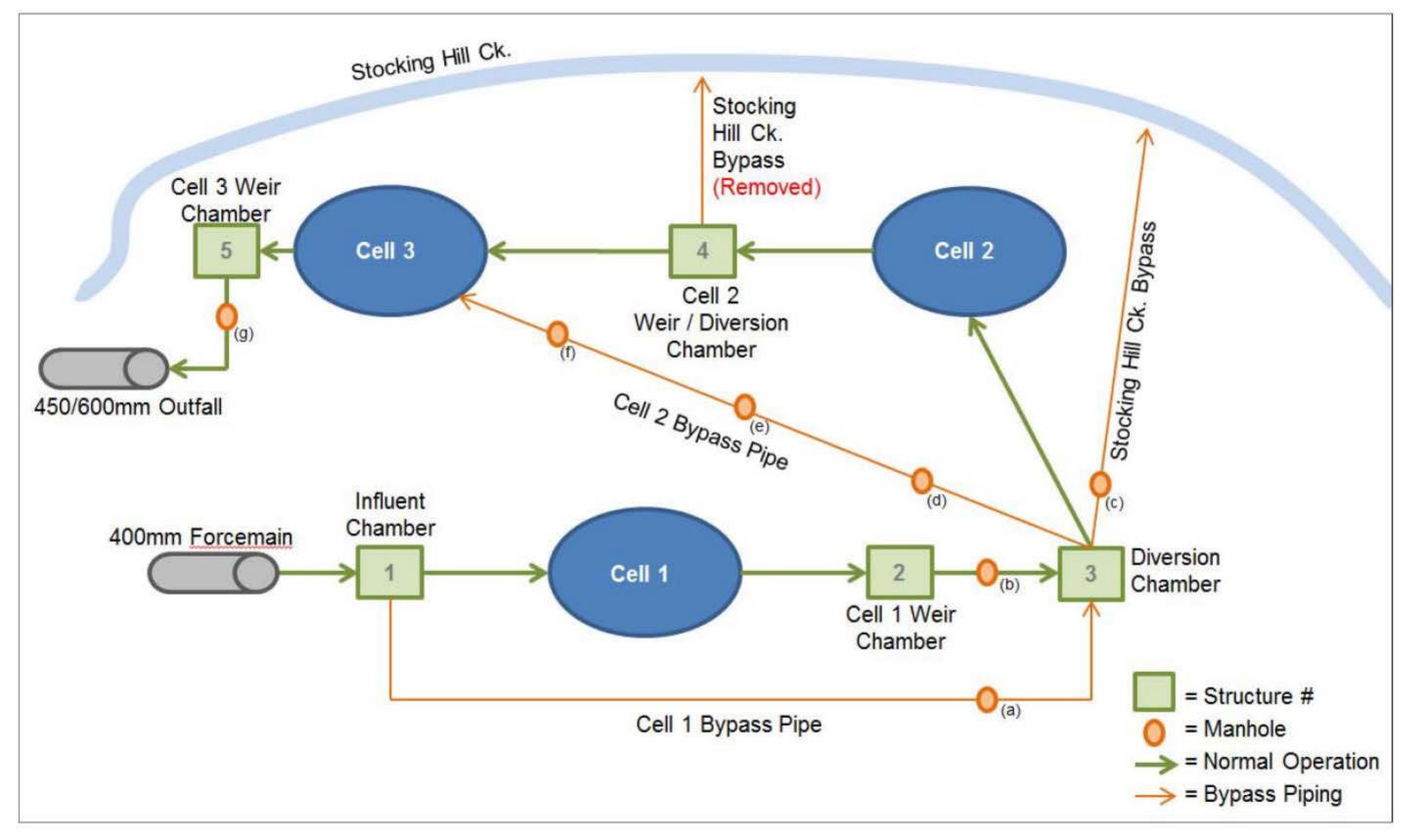
David Armstrong Manager of Public Works Phone: 613-382-2149 ext. 1615 Fax: 613-342-5035 Email: pwmanager@gananogue.ca

Don Richards Superintendent of Water Wastewater Division Phone: 613-382-2149 ext. 1118 Email: utilitysuperintendent@gananoque.ca



Christine Brennan Utilities Compliance Coordinator Phone: 613-382-2149 ext. 1612 Email: utilitycompliance@gananoque.ca

Appendix A



Appendix B

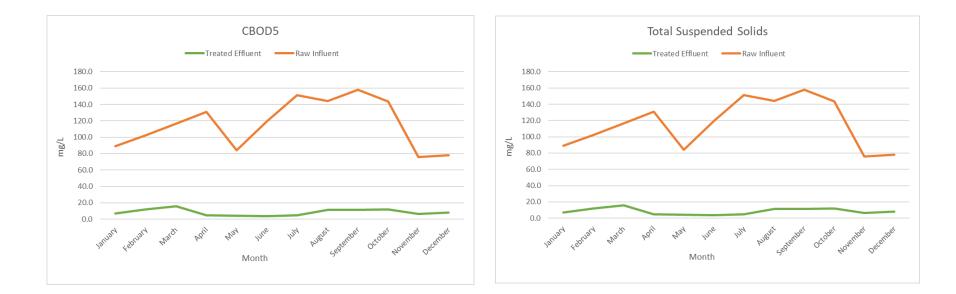
Summary Performance Report

Month	Raw Influent Flows	Treated Effluent Flows
January	89,494	135,308
February	61,887	86,688
March	112,376	124,641
April	92,392	112,371
May	96,488	100,629
June	68,301	57,723
July	94,426	89,152
August	76,863	77,129
September	65,226	60,510
October	97,913	88,760
November	107,175	151,457
December	113,373	134,961

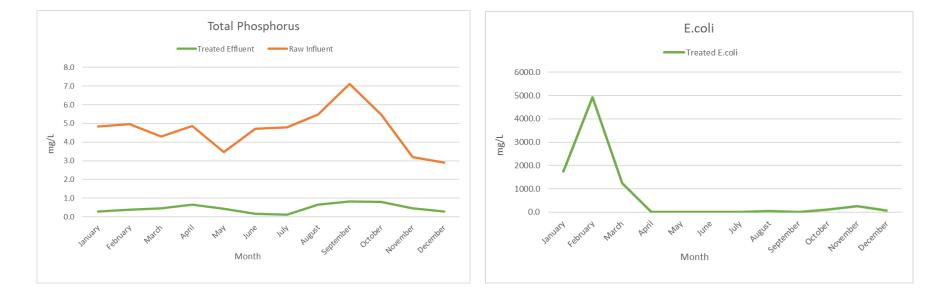


				Raw				Treated						-	Performance		
		Raw (CBOD5	Raw	TSS	Ra	w TP	Treated	CBOD5	Treat	ed TSS	Trea	ted TP	E.Coli	Re	emovals	
Month	Days	mg/L	Loading	mg/L	Loading	mg/L	Loading	mg/L	Loading	mg/L	Loading	mg/L	Loading	cfu/100mL	%CBOD5	%TSS	%TP
January	31	89.25	257.66	155.50	448.91	4.84	13.97	7.00	30.55	17.75	77.47	0.29	1.27	1753.75	92.16	88.59	94.01
February	28	102.25	226.00	188.75	471.18	4.96	10.96	12.00	37.15	16.25	50.31	0.39	1.21	4921.15	88.26	91.39	92.14
March	31	116.4	421.95	250.40	907.71	4.29	15.55	15.60	62.72	16.80	67.55	0.46	1.85	1251.65	86.60	93.29	89.28
April	30	130.75	402.68	191.25	589.00	4.86	14.97	5.00	18.73	12.50	46.82	0.66	2.47	6.11	96.18	93.46	86.42
May	31	84.25	262.23	151.75	472.32	3.46	10.77	4.00	12.98	4.50	14.61	0.43	1.40	3.55	95.25	97.03	87.57
June	30	119.60	272.29	222.84	507.34	4.72	10.75	3.60	6.93	3.20	6.16	0.17	0.33	2.88	96.99	98.56	96.40
July	31	151.50	461.47	228.50	696.01	4.80	14.62	5.00	14.38	7.75	22.29	0.12	0.35	7.12	96.70	96.61	97.50
August	31	144.00	357.04	265.60	658.54	5.47	13.56	11.60	28.86	21.80	54.24	0.66	1.64	43.24	91.94	91.79	87.93
September	30	158.00	343.52	238.50	518.55	7.12	15.48	11.50	23.20	27.75	55.97	0.83	1.67	8.32	92.72	88.36	88.34
October	31	143.5	453.24	166.75	526.68	5.47	17.28	11.75	33.64	31.75	90.91	0.80	2.29	114.61	91.81	80.96	85.37
November	30	76.0	271.51	118.80	424.41	3.20	11.43	6.60	33.32	21.40	108.04	0.46	2.32	266.29	91.32	81.99	85.63
December	31	78.25	286.18	208.00	760.70	2.9	10.61	8.25	35.92	18.00	78.36	0.29	1.26	65.13	89.46	91.35	90.00

Monthly Average Raw and Treated Sampling Parameters and Removals



Raw and Treated Sampling Averages Graphed



Appendix C

WASTEWATER TREATMENT CAPITAL PROJECTS

PROJECT NAME: YEAR: COST CENTRE: LOCATION: LENGTH: YEAR FIRST INTRODUCED: PREPARED BY DATE SCOPE: WHY REQUIRED: BENEFITS:	Gananoque Wastewater T On-Going 2020 D. Richards October 5, 2020 Provides for the capital ne Allows for coordinated pla Ensures that all costs are	ough wastewater revenues Treatment Lagoon System eds for the Gananoque Wastewater Treatment Sys nning for equipment upgrades and maintenance being captured and financed through the wastewate		S
PROJECT DESCR	IPTION:	NOTES	MGR:	BUDGET:
WASTEWATER TREA Building/Structure	TMENT EAST END PUMP STAT	ION : BLDG. & PROPERTY MNTCE: Enclosed structure to house chemical storage, spill containment.	DR/JL	400,000
WASTEWATER TREA	TMENT EAST END PUMP STAT	ion:		
Alum Bulk Storage	Tank	New chemical storage tank and fill lines	DR/JL	75,000
Pump #2		Refurbishment pump and motor	DR/JL	45,000
New Spare Pump		Purchase new pump for backup/scheduled maintenance and furture upgrades to station	DR/JL	150,000
WASTEWATER TREA Forcemain 400mm		Engineering services forcemain	DR/JL	150,000
Sludge Removal			DR/JL	250,000
				1,070,000

WASTEWATER COLLECTION CAPITAL PROJECTS

PROJECT NAME: YEAR: COST CENTRE: LOCATION: LENGTH: YEAR FIRST INTRODUCED: PREPARED BY DATE SCOPE: WHY REQUIRED: BENEFITS:	Gananoque Wastewater (On-Going 2020 D. Richards October 5, 2020 Provides for the capital ne Allows for coordinated pla	rough wastewater revenues		?S
PROJECT DESCR	IPTION:	NOTES	MGR:	BUDGET:
FULL RECONSTURC	TION PROJECTS (SEWER MAIN	NS & LATERALS)		
storm from Welling		Replace sewer mains and laterals	DR	312,285
Manhole Refurbish		On-going program to replace failing sewer laterals and manholes	DR	25,000
STONE STREET F	PUMP STATION:			
Diesel Fuel Tanks		New Fuel Tanks - Does not meet TSSA Standard	DR	15,000
North Pump		Refurbish pump and motor	DR	12,500
				364,785

Appendix D



Gananoque Lagoon 89 COUNTY RD 32, LEEDS AND THE THOUSAND ISLANDS, ON, K7G 2V3

Assessment Report

System Number:110000285Assessment Start Date:05/21/2021

Assessment End Date: Assessed By: Badge #:

06/02/2021 Suzanne Smith 1511

Smith

(signature)

NON-COMPLIANCE/NON-CONFORMANCE ITEMS

This should not be construed as a confirmation of full compliance with all potential applicable legal requirement and BMPs. These inspection findings are limited to the components and/or activities that were assessed, and the legislative framework(s) that were applied. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

If you have any questions related to this inspection, please contact the undersigned Provincial Officer.

INSPECTION DETAILS

This section includes all questions that were assessed during the inspection.

Ministry Program: Regulated Activity: SEWAGE : Municipal Sewage

Question ID 980100			
Question	Question	Legislative Requirement	
	Туре		
Does an Environmental Compliance Approval(s) exist for	Information	Not Applicable	
the sewage works?			
Observation			
The sewage works has an Environmental Compliance Approval. An amended Environmental			
Compliance Approval (ECA) # 0999-7X8QL3 was issued November 5, 2009 for approval of a			
lagoon sewage treatment system serving the Town of Ganance	oque.		

Question ID 980200				
Question	Question	Legislative		
	Туре	Requirement		
Does the sewage works Environmental Compliance	Information	Not Applicable		
Approval contain current conditions?				
Observation				
The sewage works Environmental Compliance Approval contains current conditions. ECA #				
0999-7X8QL3 issued on November 5, 2009, is a modern ECA document and contains current				
standard conditions, including but not limited to: effluent objectives, effluent limits, sampling				
requirements, operational & maintenance manual requirements, complaint and annual reporting				
requirements and a special condition to protect the berms of the lagoons.				

Question ID 980500		
Question	Question	Legislative
	Туре	Requirement
Did the sewage works report conformance with the design	Information	Not Applicable
rated capacity for average daily flow into the sewage works?		
Observation		
The sewage works reported conformance with the design rated capacity during the reporting period. Effluent Objectives of ECA # 0999-7X8QL3 issued on November 5, 2009, outlined in sec. 4 (2) (b) that the Owner shall use best efforts to: (b) operate the Works within the Rated Capacity; the lagoon sewage treatment system is rated at 5,300 m3/d.		
The average daily flow reporting in 2020 was 3,320 m3/day.		

Question ID	980750-1		
Question		Question	Legislative

	Туре	Requirement
Did the sewage works report compliance with concentration	Information	Not Applicable
limits/criteria for all parameters required by the		
Environmental Compliance Approval, Ministry order or		
guidelines?		
Observation		
The sewage works reported compliance with the concentration limits/criteria for all parameters		
during the reporting year		

Question ID 980800		
Question	Question	Legislative
	Туре	Requirement
Did the sewage works report compliance with BOD5 or	Information	Not Applicable
CBOD5 effluent concentration limits or criteria prescribed		
by the Environmental Compliance Approval, an Order, or		
Ministry Guidelines?		
Observation		

Observation The sewage works reported compliance with BOD5 or CBOD5 effluent concentration limits/criteria during the reporting year. The annual average concentration of CBOD5

limits/criteria during the reporting year. The annual average concentration of CBOD5 shall not exceed the corresponding maximum concentration of 30.0 mg/L

The sewage works were in compliance with CBOD5 annual average effluent concentration limits during 2020 reporting 7.67 mg/L.

Question	Question Type	Legislative Requirement
Did the sewage works report compliance with total suspended solids effluent concentration limits or criteria prescribed by the Environmental Compliance Approval, an Order, or Ministry Guidelines?	Information	Not Applicable
Observation		
The sewage works reported compliance with prescribed total concentration limits or criteria during the reporting year. The Total Suspended Solids (TSS) shall not exceed the corresponding/L.	annual average	concentration of

The sewage works were in compliance with the TSS annual average effluent concentration limits during 2020 reporting 14.56 mg/L.

Question ID	981400		
Question		Question Type	Legislative Requirement

Did sewage works report compliance with total phosphorous effluent concentration limits or criteria prescribed by the Environmental Compliance Approval, an Order, or Ministry	Information	Not Applicable
Guidelines?		
Observation		

The sewage works reported compliance with total phosphorous effluent concentration limits or criteria during the reporting year. The annual average concentration of Total Phosphorus (TP) shall not exceed the corresponding maximum concentration of 1.0 mg/L.

The sewage works were in compliance with the TP annual average effluent concentration limits during 2020 reporting 0.27 mg/L.

Question ID 982300		
Question	Question	Legislative
	Туре	Requirement
Did the sewage works report compliance with pH	Information	Not Applicable
concentration limits prescribed by the Environmental		
Compliance Approval?		
Observation		·
The sewage works reported compliance with the effluent	oH limits prescribed	by the ECA during
the reporting year. During the 2020 review period, the W	orks were in compli	ance with the pH

the reporting year. During the 2020 review period, the Works were in compliance with the pH effluent requirement of 5.5 to 9.5; the pH ranged between 6.2 to 8.6.

Question ID 980750-2		
Question	Question Type	Legislative Requirement
Did the sewage works report compliance with the loading limits/criteria for all parameters prescribed by the Environmental Compliance Approval or Ministry order?	Information	Not Applicable
Observation		
The sewage works reported compliance with the loading lim the reporting year	its/criteria for all	parameters during

Question ID 980900		
Question	Question	Legislative
	Туре	Requirement
Did the sewage works report compliance with BOD5 or	Information	Not Applicable
CBOD5 effluent loading limits prescribed by the		
Environmental Compliance Approval or an Order?		
Observation		
The sewage works reported compliance with BOD5 or CBOD5 effluent loading limits during the reporting year. The annual average concentration of CBOD5 shall not exceed the effluent loading limits of 159 kg/d.		

The sewage works were in compliance with the CBOD5 with effluent loading limits in 2020 reporting 30.20 kg/day.

Question ID 981200			
Question	Question	Legislative	
	Туре	Requirement	
Did the sewage works report compliance with effluent total	Information	Not Applicable	
suspended solids loading limits prescribed by the			
Environmental Compliance Approval or an Order?			
Observation			
The sewage works reported compliance with effluent total suspended solids loading limits during			

The sewage works reported compliance with effluent total suspended solids loading limits during the reporting year. The annual average concentration of TSS shall not exceed the corresponding maximum concentration of 30.0 mg/L with effluent loading limits of 159 kg/d.

The sewage works were in compliance with the TSS during 2020 reporting effluent loading limits of 55.17 kg/d.

Legislative Requirement
on Not Applicable

The sewage works reported compliance with effluent total phosphorous loading limit during the reporting year. The annual average concentration of Total Phosphorus (TP) shall not exceed loading limits of 5.30 kg/d.

The sewage works were in compliance with the TP annual average effluent loading limits in 2020 reported as 0.94 kg/d.

Question ID 980750-3			
Question	-	stion Legislati	
	Тур	e Requirer	nent
Did the sewage works report con concentration and loading object prescribed by the Environmenta Observation	ves for all parameters	rmation Not Appl	icable
The sewage works reported conformance with all parameters concentration and loading objectives during the reporting year.			

Question ID	981000		
Question		Question	Legislative

Туре	Requirement
Information	Not Applicable

Observation

The sewage works reported conformance with effluent BOD5 or CBOD5 concentration and loading objectives during the reporting year. The annual average concentration of CBOD5 shall not exceed the corresponding maximum concentration of 25.0 mg/L and effluent loading objectives of 133 kg/d.

The sewage works were in conformance with the CBOD5 annual average effluent concentration objectives during 2020 reporting 7.67 mg/L and effluent loading objectives of 30.20 kg/d.

Question ID 981300		
Question	Question	Legislative
	Туре	Requirement
Did the sewage works report conformance with effluent total	Information	Not Applicable
suspended solids concentration and loading objectives set		
out in the Environmental Compliance Approval or Order?		
Observation		
The sewage works reported conformance with effluent total suspended solids concentration and		
loading objectives during the reporting year. The annual average concentration of total suspended		
solids shall not exceed the corresponding maximum concentration of 25.0 mg/L with effluent		
loading objectives of 133 kg/d.	C C	

The sewage works were in conformance with the TSS annual average effluent concentration objectives during 2020 reporting 14.56 mg/L and effluent loading objectives of 55.17 kg/d.

Question ID	981600		
Question		Question Type	Legislative Requirement
phosphorous co	e works report conformance with effluent total oncentration and loading objectives set out in ntal Compliance Approval or Order?	Information	Not Applicable
Observation			
The sewage works reported conformance with effluent total phosphorous concentration and loading objectives during the reporting year. The annual average concentration of Total Phosphorus (TP) shall not exceed the corresponding maximum concentration of 1.0 mg/L with effluent loading objectives of 5.30 kg/d.			
The sewage works were in conformance with the TP annual average effluent concentration reporting 0.27 mg/L and effluent loading limits of 0.94 kg/d during 2020.			

Question ID 982600

Question	Question Type	Legislative Requirement
Did the sewage works report conformance with	Information	Not Applicable
microbiological parameter objectives set out in the		
Environmental Compliance Approval?		

Observation

The sewage works reported conformance with the microbiological effluent objectives during the reporting year. Amended Environmental Compliance Approval (ECA) 0999-7X8QL3 - Condition 4 - EFFLUENT OBJECTIVES (1) The Owner shall design and construct the Works and operate and maintain the Works such that the concentrations of E.coli as an effluent parameter is not to exceed in the effluent from the sewage treatment facility. The effluent E.coli is set at a Monthly Geometric Mean Density not to exceed 200 CFU/100 millilitres.

During 2020, the Works were in conformance with the E. coli parameter requirement reporting results of 123.68 CFU/100 millilitres.

Question ID 983200		
Question	Question	Legislative
	Туре	Requirement
Did the annual performance report meet the submission and content requirements prescribed by the Environmental Compliance Approval?	Information	Not Applicable
Observation		
The annual performance report met the submission and contents requirements of the Environmental Compliance Approval. The Inspector reviewed the 2020 Annual Performance Report and is of the belief that the contents comply with the requirements of the ECA.		

Question ID	983410		
Question		Question	Legislative
		Туре	Requirement
Were there no	by-passes or overflows events reported for the	Information	Not Applicable
sewage works	during the review period?		
Observation			
There were by-passes or overflow events reported for the sewage works during the review period.			
2020 Record of By-Passing / Overflow Events at the Lagoon and within the Distribution System summarizes the location, volumes and durations of bypasses (4) at the lagoon and overflow events			

(5) within the distribution system.

Question ID 983420		
Question	Question	Legislative
	Туре	Requirement
Did the information reviewed for this report demonstrate	Information	Not Applicable
that efforts were taken to conform with Procedure F-5-5		
Observation		

The sewage works has demonstrated that efforts were undertaken to conform with Policy F-5-5 during the review period.

Question ID 983430				
Question	Question	Legislative		
	Туре	Requirement		
Did the information reviewed for this report demonstrate	Information	Not Applicable		
that efforts were taken to conform with Procedure F-5-1				
Observation				
The sewage works has demonstrated that efforts were undertaken to conform with Policy F-5-1				
during the review period.		-		

Question ID	983440			
Question		Question Type	Legislative Requirement	
	spills or abnormal discharge events reported works during the review period?	Information	Not Applicable	
Observation		·		
There were spills or abnormal discharge events reported for the sewage works during the review period. 2020 Record of By-Passing / Overflow Events at the Lagoon and within the Distribution System summarizes the location, volumes and durations of bypasses (4) at the lagoon and overflow events (5) within the distribution system.				