



City of Summerside
Waste Water Treatment and Collection Facilities
for Conditional Management Plan (does not include lagoon)
Report for 2022

Date Submitted: May, 2023

Submitted by: City of Summerside Sewer Utility

1. Introduction

The City of Summerside operates a Treatment Facility that services approximately 15,000 people within the city. The plant is a tertiary BNR system that removes ammonia, phosphorus, and nitrogen from the water before it leaves the facility. The utility includes 116,077.3 meters of gravity sewer main, 9,927.9 meters of sewer force main, and 12 lift stations. This report is prepared to give the public a clear understanding of the facilities operation over the past year, 2022.

2. Summary of Wastewater Effluent Data Operation

The City of Summerside is required to meet maximum concentrations of 25mg/L of carbonaceous Biochemical Oxygen Demand (cBOD) and 25 mg/L of Total Suspended Solids (TSS) with Faecal Coliform of 400 MPN/100mL peak and 200 Most Probable Number (MPN) / 100ml average. These parameters are as per our Certificate of Approval from the Province of Prince Edward Island.

3. Summary of Discharge Notifications

During the calendar year 2022 there were no discharge events.

4. Major Operational Modifications

There were no operational modifications to the Summerside WWTP in 2022.

5. Major Construction WWTP Projects

There were no construction projects at the Summerside WPCC in 2022.

6. Summary of Biosolids Production

The City of Summerside produced a total of 4702 metric tons of fertilizer product through their N-Viro system during 2022. See table 4 for the breakdown of product used.

7. Summary of Flow Metering

The flow at the City of Summerside WWTP is measured using a Parshall flume and electronic instrument and recorded on our SCADA system. See Appendix D for daily flow readings.

8. Summary of Waste Water Collection System

In 2022 the City of Summerside continued to operate a modern Waste Water Collection System including gravity mains, force mains, and lift stations. Below is a list of lift stations under the care of the City of Summerside which all continued to receive maintenance as per usual in 2022:

Summerside Lift Station ID number	Location
LS 1	Northumberland Street
LS 2	Eustane Street
LS 3	Read's Corner
LS 4	Red Bridge
LS 5	Crozier Drive
LS 6	Glover's Shore Road
LS 7	Whitecap Drive
LS 8	Heather Moyse Drive
LS 9	MacKenzie Drive
LS 10	Briggs Street
LS 11	Granville Street
LS 12	MacKenzie Drive #2

Table 1: Summary of Wastewater Effluent Data

Date Sampled	Sample Location (WWTP)	ID #	cBOD (mg/L)	TSS (mg/L)	Faecal (MPN/100mL)
	Regulated Maximum Limits		25.0	25.0	200
January 5, 2022	After UV Outfall	W220105003	<10	8	4
January 19, 2022	After UV Outfall	W220119002	<10	8	<2
February 2, 2022	After UV Outfall	W220202002	<10	4	<2
February 16, 2022	After UV Outfall	W220216003	<10	7	2
March 2, 2022	After UV Outfall	W220302002	<10	7	2
March 16, 2022	After UV Outfall	W220316002	<10	6	<2
March 30, 2022	After UV Outfall	W220330004	<10	5	2
April 13, 2022	After UV Outfall	W220413012	<10	7	<2
April 27, 2022	After UV Outfall	W220427002	<10	7	<2
May 11, 2022	After UV Outfall	W220511001	<10	18	<2
May 25, 2022	After UV Outfall	W220525001	<10	8	<2
June 8, 2022	After UV Outfall	W220608004	<10	8	<2
June 22, 2022	After UV Outfall	W220622002	<10	8	<2
July 6, 2022	After UV Outfall	W220706002	<10	5	<2
July 20, 2022	After UV Outfall	W220720002	<10	8	<2
August 3, 2022	After UV Outfall	W220803002	<10	7	2
August 17, 2022	After UV Outfall	W220817003	<10	7	<2
September 1, 2022	After UV Outfall	W220901001	<10	8	<2
September 14, 2022	After UV Outfall	W220914003	<10	16	<2
October 5, 2022	After UV Outfall	W221005001	<10	5	<2
October 19, 2022	After UV Outfall	W221019025	<10	5	<2
November 2, 2022	After UV Outfall	W221102001	<10	5	<2
November 16, 2022	After UV Outfall	W221116010	<10	8	<2
December 1, 2022	After UV Outfall	W221201002	<10	7	<2
December 7, 2022	After UV Outfall	W221207003	<10	6	<2

Table 2: Summary of Wastewater Effluent Chemistry Data

Date Sampled	Sample Location (WWTP)	ID #	Ammonia-N (ppm)	pH	Total Nitrogen (ppm)	Total Phosphorus (ppb)
January 5, 2022	After UV Outfall	W220105003	.536	7.3	2.2	164
May 11, 2022	After UV Outfall	W220511001	.121	7.3	2.0	227
June 22, 2022	After UV Outfall	W220622022	<0.1	7.2	1.5	306
August 17 2022	After UV Outfall	W220817003	>0.001	7.8	1.6	331

Table 3: Summary of Discharge Notifications for WPCC and Lift Stations

Date	Time	WW Type	Location	Period of Discharge	Total Discharge	Reason for Discharge
None in 2022						

Table 4: Summary of Biosolids Production Data

Sludge Total (Kg)	Lime Total (Kg)	Lime Dust Total (Kg)	Dewatered Sludge Cake % Solids Average	Final Product % Solids Average	Product Total (tonnes)
4,864,036	59,963	1,885,830	27.28	61.42	4702

Appendix A: Effluent Wastewater Lab Reports

See data in Table 1 of this report. For original copies of PEI Analytical Laboratories Reports please see Appendix F.

Appendix C: Biosolids Quality Lab Reports

	Exceptional Quality Limit, ACWWA	April 1 2022	June 30 2022	November 2 2022	
E. Coli	<1000 MPN/g	<2	<3	NT	
Salmonella	<3 MPN/4g	Neg	Neg	Neg	
Arsenic	41 mg/kg	6.6	6.2	3.0	
Cadmium	39 mg/kg	<0.5	<0.5	0.0	
Chromium	1200 mg/kg	12.6	13.5	17.5	
Copper	1500 mg/kg	66.3	67.2	67.2	
Mercury	17 mg/kg	<0.1	<0.15	0.3	
Molybdenum	75 mg/kg	3.1	3.4	2.5	
Nickel	420 mg/kg	8.3	7.4	13	
Lead	300 mg/kg	67.9	78.6	99	
Selenium	100 mg/kg	4.0	4.0	5.5	
Zinc	2800 mg/kg	75	130	223	

Appendix D: Daily Flow Meter Readings for Summerside WPCC 2022

Note: Readings are in cubic meters per day

Day	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
1	8111	8662	11684	19582	13078	11003	9453	9093	9199	9224	9263	11701
2	9316	8819	11831	17405	12869	10724	9885	9515	9101	9374	9256	10960
3	9079	9195	11032	15874	12441	10518	9579	9161	8188	9925	9001	10378
4	9317	8101	11085	15842	12706	10034	9948	9161	8299	9673	9095	10084
5	10885	8478	10386	15030	12269	10312	9989	9184	8853	9567	8370	10412
6	10086	8229	11010	14628	12168	10427	12792	8746	9072	9066	8775	10085
7	9590	8825	14242	13739	11331	10217	9887	8703	8958	9243	8658	10885
8	8771	14070	12308	14684	11026	11227	9944	11867	8525	8825	8881	12993
9	9307	10942	11220	14329	11451	10450	9253	12118	8595	8642	8829	11827
10	9697	9957	11262	14612	11257	10489	9188	10173	8217	9098	8479	10697
11	9265	9909	11084	14205	11269	9572	9864	9522	8339	9009	9572	10591
12	8987	10799	16588	13870	11309	9689	9688	9582	8718	8903	12137	10858
13	9286	9891	12394	13665	11189	11095	9658	8971	8444	9022	10635	10764
14	9333	9930	12450	13138	10595	12797	9418	10222	9030	8954	10211	10547
15	8479	9714	12381	13508	10572	11386	9498	9604	8588	8708	9875	11547
16	8696	9821	12491	12744	10293	10346	8955	9377	8555	8506	10981	11484
17	10229	18546	12688	13049	10542	10591	8895	10202	8017	8037	10083	12094
18	9907	26468	14356	12812	10454	9996	9860	9347	8016	8034	10029	13125
19	9270	13930	13221	15653	10244	9698	10422	9442	8415	10651	9113	15794
20	9085	12233	14596	14420	10116	11003	9666	8646	11099	9253	9315	14355
21	8987	12198	14421	12878	10109	10145	9235	8680	10152	8931	9637	13128
22	8649	12675	13455	13609	9918	10120	9428	9452	9499	8610	9331	12629
23	8823	18168	13062	12538	10523	9847	8629	9352	13817	8700	9586	13208
24	9011	14013	12710	12433	10496	11148	8817	9474	11447	10090	9248	11910
25	8896	13410	18122	12571	10397	9796	9575	8909	10093	10558	9930	10589
26	8955	12131	15375	12389	10469	9807	9377	9961	13703	10352	9133	11727
27	8529	12211	16506	14562	13697	10133	9228	8675	11073	9634	9484	12074
28	8529	12008	15579	13428	11016	10088	9057	8636	10567	9535	12534	12253
29	8388		15160	13027	10782	9914	9469	9457	10291	8820	10255	12114
30	8339		15209	13271	11466	9654	8554	9099	9748	8929	11272	11974
31	8388		15232		11139		8704	11186		9369		11415

Appendix E Ortho Map





PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220105003

Date Sampled: 05-Jan-2022

Received Date: 05-Jan-2022

Reported Date: 01-Mar-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u> ³
WML_07M*	CBOD*	<10	mg/L	10.00	11-Jan-2022
WML_09M*	Faecal coliforms A1*	4	MPN	2	06-Jan-2022
WML_04M*	TSS*	8	mg/L	1	06-Jan-2022

Water Chemistry Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u> ³
WCL_02M*	Ammonia-N*	0.536	ppm	0.1000	22-Feb-2022
WCL_04M*	pH for Water*	7.3	pH (pH Units)	0.0000	14-Jan-2022
WCM_05M*	Total Nitrogen*	2.2	ppm	0.5000	09-Feb-2022
WCL_08M*	Total Phosphorus*	164	ppb	0.0100	03-Feb-2022

Lab Results Approved By: Jackie Garnhum - Laboratory Supervisor

Date: 28-Feb-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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Department of Environment, Energy and Climate Action

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W220105003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jan 05, 2022

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220119002

Date Sampled: 19-Jan-2022

Received Date: 19-Jan-2022

Reported Date: 25-Jan-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	25-Jan-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	20-Jan-2022
WML_04M*	TSS*	8	mg/L	1	20-Jan-2022

Lab Results Approved By: Angela Richard - Lab Technician

Date: 25-Jan-2022

Legend: MPN = Most Probable Number

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WATER QUALITY ASSESSMENT

Sample Code: W220119002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jan 19, 2022

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Angela Richard - Lab Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220202002

Date Sampled: 02-Feb-2022

Received Date: 02-Feb-2022

Reported Date: 08-Feb-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	08-Feb-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	03-Feb-2022
WML_04M*	TSS*	4	mg/L	1	03-Feb-2022

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 08-Feb-2022

Legend: MPN = Most Probable Number

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WATER QUALITY ASSESSMENT

Sample Code: W220202002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Feb 02, 2022

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220216003

Date Sampled: 16-Feb-2022

Received Date: 16-Feb-2022

Reported Date: 22-Feb-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u>
WML_07M*	CBOD*	<10	mg/L	10.00	22-Feb-2022
WML_09M*	Faecal coliforms A1*	2	MPN	2	17-Feb-2022
WML_04M*	TSS*	7	mg/L	1	18-Feb-2022

Lab Results Approved By: Scott Brown - Laboratory Technologist

Date: 22-Feb-2022

Legend: MPN = Most Probable Number

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mg/L = milligrams per litre

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WATER QUALITY ASSESSMENT

Sample Code: W220216003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Feb 16, 2022

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

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For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

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23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220302002

Date Sampled: 02-Mar-2022

Received Date: 02-Mar-2022

Reported Date: 08-Mar-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	08-Mar-2022
WML_09M*	Faecal coliforms A1*	2	MPN	2	03-Mar-2022
WML_04M*	TSS*	7	mg/L	1	03-Mar-2022

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 08-Mar-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

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WATER QUALITY ASSESSMENT

Sample Code: W220302002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Mar 02, 2022

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

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Approved By:

Patti Larsen - Laboratory Technologist

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Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220316002

Date Sampled: 16-Mar-2022

Received Date: 16-Mar-2022

Reported Date: 22-Mar-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	22-Mar-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	17-Mar-2022
WML_04M*	TSS*	6	mg/L	1	17-Mar-2022

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 22-Mar-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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Department of Environment, Energy and Climate Action

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W220316002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Mar 16, 2022

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220330004

Date Sampled: 30-Mar-2022

Received Date: 30-Mar-2022

Reported Date: 05-Apr-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	05-Apr-2022
WML_09M*	Faecal coliforms A1*	2	MPN	2	31-Mar-2022
WML_04M*	TSS*	5	mg/L	1	01-Apr-2022

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 05-Apr-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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WATER QUALITY ASSESSMENT

Sample Code: W220330004

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Mar 30, 2022

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220413012

Date Sampled: 13-Apr-2022

Received Date: 13-Apr-2022

Reported Date: 19-Apr-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u> ³
WML_07M*	CBOD*	<10	mg/L	10.00	19-Apr-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	14-Apr-2022
WML_04M*	TSS*	7	mg/L	1	14-Apr-2022

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 19-Apr-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

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mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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PO Box 2000
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WATER QUALITY ASSESSMENT

Sample Code: W220413012

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Apr 13, 2022

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220427002

Date Sampled: 27-Apr-2022

Received Date: 27-Apr-2022

Reported Date: 03-May-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	03-May-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	28-Apr-2022
WML_04M*	TSS*	7	mg/L	1	29-Apr-2022

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 03-May-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

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mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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WATER QUALITY ASSESSMENT

Sample Code: W220427002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Apr 27, 2022

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - Effluent

Sample Number: W220511001

Date Sampled: 11-May-2022

Received Date: 11-May-2022

Reported Date: 01-Aug-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	17-May-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	12-May-2022
WML_04M*	TSS*	18	mg/L	1	13-May-2022

Water Chemistry Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WCL_02M*	Ammonia-N*	0.121	ppm	0.1000	16-May-2022
WCL_04M*	pH for Water*	7.3	pH (pH Units)	0.0000	13-May-2022
WCM_05M*	Total Nitrogen*	2.0	ppm	0.5000	24-Jul-2022
WCL_08M*	Total Phosphorus*	227	ppb	0.0100	25-May-2022

Lab Results Approved By: Jackie Garnhum - Laboratory Supervisor

Date: 01-Aug-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

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mg/L = milligrams per litre

nd = not detected; na = not analysed

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WATER QUALITY ASSESSMENT

Sample Code: W220511001

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: May 11, 2022

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Not indicated on request form

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220525001

Date Sampled: 25-May-2022

Received Date: 25-May-2022

Reported Date: 31-May-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	31-May-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	26-May-2022
WML_04M*	TSS*	8	mg/L	1	27-May-2022

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 31-May-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

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WATER QUALITY ASSESSMENT

Sample Code: W220525001

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: May 25, 2022

PP_NO: 68726

Sampler: Not indicated on request form

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: WWTP

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220608004

Date Sampled: 08-Jun-2022

Received Date: 08-Jun-2022

Reported Date: 14-Jun-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u> ³
WML_07M*	CBOD*	<10	mg/L	10.00	14-Jun-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	09-Jun-2022
WML_04M*	TSS*	8	mg/L	1	10-Jun-2022

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 14-Jun-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

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WATER QUALITY ASSESSMENT

Sample Code: W220608004

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: WWTP

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jun 08, 2022

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - Effluent

Sample Number: W220622002

Date Sampled: 22-Jun-2022

Received Date: 22-Jun-2022

Reported Date: 16-Aug-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u> ³
WML_07M*	CBOD*	<10	mg/L	10.00	28-Jun-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	23-Jun-2022
WML_04M*	TSS*	8	mg/L	1	23-Jun-2022

Water Chemistry Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis</u> ³
WCL_02M*	Ammonia-N*	<0.100	ppm	0.1000	15-Aug-2022
WCL_04M*	pH for Water*	7.2	pH (pH Units)	0.0000	24-Jun-2022
WCM_05M*	Total Nitrogen*	1.5	ppm	0.5000	30-Jun-2022
WCL_08M*	Total Phosphorus*	306	ppb	0.0100	15-Aug-2022

Lab Results Approved By: Jackie Garnhum - Laboratory Supervisor

Date: 16-Aug-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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WATER QUALITY ASSESSMENT

Sample Code: W220622002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jun 22, 2022

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - Effluent

Field Notes: Attention: Sam Arenault, 432-1274.

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220706002

Date Sampled: 06-Jul-2022

Received Date: 06-Jul-2022

Reported Date: 12-Jul-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	12-Jul-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	07-Jul-2022
WML_04M*	TSS*	5	mg/L	1	07-Jul-2022

Lab Results Approved By: Bimal Upadhyaya - Laboratory Technician

Date: 12-Jul-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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WATER QUALITY ASSESSMENT

Sample Code: W220706002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jul 06, 2022

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Bimal Upadhyaya - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220720002

Date Sampled: 20-Jul-2022

Received Date: 20-Jul-2022

Reported Date: 26-Jul-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	26-Jul-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	21-Jul-2022
WML_04M*	TSS*	8	mg/L	1	22-Jul-2022

Lab Results Approved By: Bimal Upadhyaya - Laboratory Technician

Date: 26-Jul-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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Department of Environment, Energy and Climate Action

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WATER QUALITY ASSESSMENT

Sample Code: W220720002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Jul 20, 2022

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Bimal Upadhyaya - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W220803002

Date Sampled: 03-Aug-2022

Received Date: 03-Aug-2022

Reported Date: 13-Sep-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	02-Sep-2022
WML_09M*	Faecal coliforms A1*	2	MPN	2	02-Sep-2022
WML_04M*	TSS*	7	mg/L	1	06-Sep-2022

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 06-Sep-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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WATER QUALITY ASSESSMENT

Sample Code: W220803002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Aug 03, 2022

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Field Notes: Attention: Sam Arsenault

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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**PEI Analytical Laboratories
Water Quality Test Report**

23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Sam Arsenault

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - Effluent

Sample Number: W220817003

Date Sampled: 17-Aug-2022

Received Date: 04-Sep-2022

Reported Date: 20-Oct-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	15-Sep-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	13-Sep-2022
WML_04M*	TSS*	7	mg/L	1	15-Sep-2022

Water Chemistry Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WCL_02M*	Ammonia-N*	<0.100	ppm	0.1000	04-Oct-2022
WCL_04M*	pH for Water*	7.8	pH (pH Units)	0.0000	22-Sep-2022
WCM_05M*	Total Nitrogen*	1.6	ppm	0.5000	04-Oct-2022
WCL_08M*	Total Phosphorus*	331	ppb	0.0100	07-Oct-2022

Lab Results Approved By: Jackie Garnhum - Laboratory Supervisor

Date: 18-Oct-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities .

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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WATER QUALITY ASSESSMENT

Sample Code: W220817003
20-Oct-2022

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant
Sample Point: Summerside Water Pollution Control Plant
Sample Location: After UV Outfall
Client Phone No: 902-432-1274
Civic Address: 15 Seaweed Rd
Community: Summerside

Sample Information:

Date Sampled: Aug 17, 2022

PP_NO: 68726

Sampler: Sam Arsenault

Reference: Andrew MacDonald

Water Type: Wastewater - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation.

Approved By:

End of Report

Ben Lanigan

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP

Sample Number: W220901001

Date Sampled: 01-Sep-2022

Received Date: 01-Sep-2022

Reported Date: 06-Sep-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	06-Sep-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	02-Sep-2022
WML_04M*	TSS*	8	mg/L	1	06-Sep-2022

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 06-Sep-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

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mg/L = milligrams per litre

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WATER QUALITY ASSESSMENT

Sample Code: W220901001

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Sep 01, 2022

PP_NO: 68726

Sampler: Winston

Reference: Ben Lanigan

Water Type: Wastewater - WWTP

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP

Sample Number: W220914003

Date Sampled: 14-Sep-2022

Received Date: 14-Sep-2022

Reported Date: 20-Sep-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	20-Sep-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	15-Sep-2022
WML_04M*	TSS*	16	mg/L	1	15-Sep-2022

Lab Results Approved By: Scott Brown - Laboratory Technologist

Date: 20-Sep-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

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mg/L = milligrams per litre

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WATER QUALITY ASSESSMENT

Sample Code: W220914003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Sep 14, 2022

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - Effluent

Sample Number: W221005001

Date Sampled: 05-Oct-2022

Received Date: 05-Oct-2022

Reported Date: 11-Oct-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	11-Oct-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	06-Oct-2022
WML_04M*	TSS*	5	mg/L	1	07-Oct-2022

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 11-Oct-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

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mg/L = milligrams per litre

nd = not detected; na = not analysed

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Department of Environment, Energy and Climate Action

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WATER QUALITY ASSESSMENT

Sample Code: W221005001

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Oct 05, 2022

PP_NO: 68726

Sampler: Mike Harris

Reference: Andrew MacDonald

Water Type: Wastewater - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mila Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W221019025

Date Sampled: 19-Oct-2022

Received Date: 19-Oct-2022

Reported Date: 25-Oct-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	25-Oct-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	20-Oct-2022
WML_04M*	TSS*	5	mg/L	1	21-Oct-2022

Lab Results Approved By: Patti Larsen - Laboratory Technologist

Date: 25-Oct-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

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WATER QUALITY ASSESSMENT

Sample Code: W221019025

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Oct 19, 2022

PP_NO: 68726

Sampler: Mila Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Patti Larsen - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP

Sample Number: W221102001

Date Sampled: 02-Nov-2022

Received Date: 02-Nov-2022

Reported Date: 08-Nov-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	08-Nov-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	03-Nov-2022
WML_04M*	TSS*	5	mg/L	1	04-Nov-2022

Lab Results Approved By: Scott Brown - Laboratory Technologist

Date: 08-Nov-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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WATER QUALITY ASSESSMENT

Sample Code: W221102001

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Nov 02, 2022

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Mike Harris

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W221116010

Date Sampled: 16-Nov-2022

Received Date: 16-Nov-2022

Reported Date: 22-Nov-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	22-Nov-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	17-Nov-2022
WML_04M*	TSS*	8	mg/L	1	18-Nov-2022

Lab Results Approved By: Bimal Upadhyaya - Laboratory Technician

Date: 22-Nov-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

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WATER QUALITY ASSESSMENT

Sample Code: W221116010

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Nov 16, 2022

PP_NO: 68726

Sampler: Mike Harris

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Bimal Upadhyaya - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Not indicated

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After U.V. Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W221201002

Date Sampled: 01-Dec-2022

Received Date: 01-Dec-2022

Reported Date: 06-Dec-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	06-Dec-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	02-Dec-2022
WML_04M*	TSS*	7	mg/L	1	01-Dec-2022

Lab Results Approved By: Steven Nguyen - Laboratory Technician

Date: 06-Dec-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

³Dates of Analysis refers to the date of performance of lab activities.

mg/L = milligrams per litre

nd = not detected; na = not analysed

< = less than

²=Estimated

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Tel 902 368 5044
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Fax 902 368 5830
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Department of Environment, Energy and Climate Action

PO Box 2000
Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W221201002

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After U.V. Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Dec 01, 2022

PP_NO: 68726

Sampler: Not indicated

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Steven Nguyen - Laboratory Technician

End of Report

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PEI Analytical Laboratories
Water Quality Test Report
23 Innovation Way, Charlottetown, PE C1E 0B7



Client Name: City of Summerside: Wastewater Treatment Plant

Sampler: Winston Gallant

Sample Location: Summerside Water Pollution Control Plant

Sample Point: After UV Outfall

Water Type: WasteWater

Wastewater - WWTP - Effluent

Sample Number: W221207003

Date Sampled: 07-Dec-2022

Received Date: 07-Dec-2022

Reported Date: 13-Dec-2022

Water Microbiology Results

<u>Method ID</u>	<u>Parameter</u>	<u>Results</u>	<u>Units</u>	<u>Detection Limits</u>	<u>Date of Analysis³</u>
WML_07M*	CBOD*	<10	mg/L	10.00	13-Dec-2022
WML_09M*	Faecal coliforms A1*	<2	MPN	2	08-Dec-2022
WML_04M*	TSS*	6	mg/L	1	09-Dec-2022

Lab Results Approved By: Scott Brown - Laboratory Technologist

Date: 13-Dec-2022

Legend:

MPN = Most Probable Number

cfu/100 mls = colony forming units per 100 millilitres

* = method accredited by Standards Council of Canada

Ammonia is equivalent to (Ammonia + Ammonium)-N

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Charlottetown
Prince Edward Island

WATER QUALITY ASSESSMENT

Sample Code: W221207003

City of Summerside: Wastewater Treatment Plant
Sam Arsenault
275 Fitzroy St
Summerside, PE
Canada
C1N 1H9

Client Name: City of Summerside: Wastewater Treatment Plant

Sample Point: Summerside Water Pollution Control Plant

Sample Location: After UV Outfall

Client Phone No: 902-432-1274

Civic Address: 15 Seaweed Rd

Community: Summerside

Sample Information:

Date Sampled: Dec 07, 2022

PP_NO: 68726

Sampler: Winston Gallant

Reference: Ben Lanigan

Water Type: Wastewater - WWTP - Effluent

Interpretation of Results:

Note: Please see reverse side for the results for specific parameters analysed.

The results and interpretation contained in this report relate only to those parameters tested.

For your information and interpretation. If you have any questions please contact the PEI Drinking Water and Wastewater Management Section at 902-368-5043.

Approved By:

Scott Brown - Laboratory Technologist

End of Report

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