



# **APPENDIX B**

## **WATER QUALITY SAMPLING RESULTS**

C.O.C.: G100690

REPORT No. B22-00715

**Report To:**

**City of Iqaluit**

PO Box 460,  
Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
Ottawa Ontario K1V 7P1  
Tel: 613-526-0123  
Fax: 613-526-1244

DATE RECEIVED: 10-Jan-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 24-Jan-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	Test A- WTP Raw	Test A- WTP Raw	Test A- WTP Potable	Test A- WTP Potable (Total)
					Sample I.D.	Date Collected	B22-00715-1	B22-00715-2	B22-00715-3
Hardness (as CaCO3)	mg/L	1	SM 3120	12-Jan-22/O		17		18	
Hardness (as CaCO3)	mg/L	1	SM 3120	13-Jan-22/O			19		18
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	10-Jan-22/O		16		12	
Bicarbonate(as CaCO3)	mg/L	5	SM 2320B	10-Jan-22/O		16		12	
Carbonate (as CaCO3)	mg/L	5	SM 2320B	10-Jan-22/O		< 5		< 5	
Hydroxide	mg/L	5	EPA 310.2	10-Jan-22/O		< 5		< 5	
Acidity (as CaCO3)	mg/L	5	Subcontract	14-Jan-22		< 5 <sup>1</sup>		< 5 <sup>1</sup>	
pH @25°C	pH Units		SM 4500H	10-Jan-22/O		6.49		6.19	
Conductivity @25°C	µmho/cm	1	SM 2510B	10-Jan-22/O		40		42	
TDS(ion sum calc.)	mg/L	1	Calc.	13-Jan-22/O		20		20	
Total Suspended Solids	mg/L	3	SM2540D	12-Jan-22/K		< 3		< 3	
Turbidity	NTU	0.1	SM 2130	12-Jan-22/O		0.3		0.2	
REDOX potential	mV		In-House	12-Jan-22/R		390		682	
Chloride	mg/L	0.5	SM4110C	10-Jan-22/O		1.2		2.9	
Sulphate	mg/L	1	SM4110C	10-Jan-22/O		2		2	
Aluminum	mg/L	0.01	SM 3120	12-Jan-22/O		< 0.01		< 0.01	
Aluminum	mg/L	0.01	SM 3120	13-Jan-22/O			< 0.01		< 0.01
Antimony	mg/L	0.0001	EPA 200.8	10-Jan-22/O		< 0.0001		< 0.0001	
Antimony	mg/L	0.0001	EPA 200.8	11-Jan-22/O			0.0004		0.0003
Arsenic	mg/L	0.0001	EPA 200.8	10-Jan-22/O		< 0.0001		< 0.0001	
Arsenic	mg/L	0.0001	EPA 200.8	11-Jan-22/O			< 0.0001		< 0.0001
Barium	mg/L	0.001	SM 3120	12-Jan-22/O		0.002		0.002	
Barium	mg/L	0.001	SM 3120	13-Jan-22/O			0.002		0.002
Beryllium	mg/L	0.002	SM 3120	12-Jan-22/O		< 0.002		< 0.002	
Beryllium	mg/L	0.002	SM 3120	13-Jan-22/O			< 0.002		< 0.002
Cadmium	mg/L	0.00015	EPA 200.8	10-Jan-22/O		< 0.00015		< 0.00015	



Greg Clarkin, BSc., C. Chem  
Lab Manager - Ottawa District

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: G100690

REPORT No. B22-00715

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 10-Jan-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 24-Jan-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	Test A- WTP Raw	Test A- WTP Raw	Test A- WTP Potable	Test A- WTP Potable (Total)
					Sample I.D.	Date Collected			
Cadmium	mg/L	0.00015	EPA 200.8	11-Jan-22/O	B22-00715-1	07-Jan-22	< 0.000015		< 0.000015
Chromium	mg/L	0.002	SM 3120	12-Jan-22/O	B22-00715-2	07-Jan-22	< 0.002	< 0.002	< 0.002
Chromium	mg/L	0.002	SM 3120	13-Jan-22/O	B22-00715-3	07-Jan-22	< 0.002	< 0.002	< 0.002
Cobalt	mg/L	0.005	SM 3120	12-Jan-22/O	B22-00715-4	07-Jan-22	< 0.005	< 0.005	< 0.005
Cobalt	mg/L	0.005	SM 3120	13-Jan-22/O			< 0.005	< 0.005	< 0.005
Copper	mg/L	0.002	SM 3120	12-Jan-22/O			0.023	0.023	0.023
Copper	mg/L	0.002	SM 3120	13-Jan-22/O			0.023	0.023	0.023
Iron	mg/L	0.005	SM 3120	21-Jan-22/O			0.015	0.017	
Iron	mg/L	0.005	SM 3120	13-Jan-22/O			0.023	0.023	0.023
Lead	mg/L	0.00002	EPA 200.8	10-Jan-22/O			0.00003	0.00009	
Lead	mg/L	0.00002	EPA 200.8	11-Jan-22/O			0.00003	0.00009	0.00009
Lithium	mg/L	0.01	SM 3120	12-Jan-22/O			< 0.01	< 0.01	< 0.01
Lithium	mg/L	0.01	SM 3120	13-Jan-22/O			< 0.01	< 0.01	< 0.01
Manganese	mg/L	0.001	SM 3120	12-Jan-22/O			0.005	0.003	
Manganese	mg/L	0.001	SM 3120	13-Jan-22/O			0.005	0.004	0.004
Mercury	mg/L	0.00002	SM 3112 B	11-Jan-22/O			< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	12-Jan-22/O			< 0.01	< 0.01	< 0.01
Molybdenum	mg/L	0.01	SM 3120	13-Jan-22/O			< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	12-Jan-22/O			< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	13-Jan-22/O			< 0.01	< 0.01	< 0.01
Selenium	mg/L	0.001	EPA 200.8	10-Jan-22/O			< 0.001	< 0.001	< 0.001
Selenium	mg/L	0.001	EPA 200.8	11-Jan-22/O			< 0.001	< 0.001	< 0.001
Silver	mg/L	0.0001	EPA 200.8	10-Jan-22/O			< 0.0001	< 0.0001	< 0.0001
Silver	mg/L	0.0001	EPA 200.8	11-Jan-22/O			< 0.0001	< 0.0001	< 0.0001
Strontium	mg/L	0.001	SM 3120	12-Jan-22/O			0.013	0.013	0.013
Strontium	mg/L	0.001	SM 3120	13-Jan-22/O			0.014	0.013	0.013



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: G100690

REPORT No. B22-00715

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PO Box 460,  
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**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
Ottawa Ontario K1V 7P1  
Tel: 613-526-0123  
Fax: 613-526-1244

DATE RECEIVED: 10-Jan-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 24-Jan-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	Test A- WTP Raw	Test A- WTP Raw	Test A- WTP Potable	Test A- WTP Potable (Total)
					Sample I.D.	Date Collected			
Thallium	mg/L	0.00005	EPA 200.8	10-Jan-22/O	B22-00715-1	07-Jan-22			
Thallium	mg/L	0.00005	EPA 200.8	11-Jan-22/O	B22-00715-2	07-Jan-22			
Tin	mg/L	0.05	SM 3120	12-Jan-22/O	B22-00715-3	07-Jan-22			
Tin	mg/L	0.05	SM 3120	13-Jan-22/O	B22-00715-4	07-Jan-22			
Titanium	mg/L	0.005	SM 3120	12-Jan-22/O					
Titanium	mg/L	0.005	SM 3120	13-Jan-22/O					
Uranium	mg/L	0.00005	EPA 200.8	10-Jan-22/O					
Uranium	mg/L	0.00005	EPA 200.8	11-Jan-22/O					
Vanadium	mg/L	0.005	SM 3120	12-Jan-22/O					
Vanadium	mg/L	0.005	SM 3120	13-Jan-22/O					
Zinc	mg/L	0.005	SM 3120	12-Jan-22/O					
Zinc	mg/L	0.005	SM 3120	13-Jan-22/O			0.011		0.010
Total Organic Carbon	mg/L	0.2	EPA 415.2	10-Jan-22/O			1.7	2.1	
TIC	mg/L	0.5	EPA 415.1	10-Jan-22/O			6.6	7.0	
Fecal Coliform	cfu/100mL	1	MOE	10-Jan-22/O			0	0	
Anion Sum	meq/L		Calc.	13-Jan-22/O			0.397	0.383	
Cation Sum	meq/L		Calc.	13-Jan-22/O			0.386	0.391	
% Difference	%		Calc.	13-Jan-22/O			1.43	0.951	
Ion Ratio	AS/CS		Calc.	13-Jan-22/O			1.03	0.981	
Sodium Adsorption Ratio	-		Calc.	13-Jan-22/O			0.0850	0.0833	
Conductivity (calc.)	µmho/cm		Calc.	13-Jan-22/O			41	42	
EC(calc.)/EC(actual)	-		Calc.	13-Jan-22/O			1.02	1.01	
TDS(calc.)/EC(actual)	-		Calc.	13-Jan-22/O			0.501	0.487	
Langelier Index(25°C)	S.I.		Calc.	13-Jan-22/O			-2.89	-3.29	

1. Subcontracted to Testmark Labs



Greg Clarkin, BSc., C. Chem  
Lab Manager - Ottawa District

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**C.O.C.: G100690**

**REPORT No. B22-00719**

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 10-Jan-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 20-Jan-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	WWTP Influent	WWTP Effluent		
					Sample I.D.				
					B22-00719-1	B22-00719-2			
					07-Jan-22	07-Jan-22			
BOD(5 day)	mg/L	3	SM 5210B	10-Jan-22/K	245	155			
Total Suspended Solids	mg/L	3	SM2540D	12-Jan-22/K	300	180			
Conductivity @25°C	µmho/cm	1	SM 2510B	10-Jan-22/O	644	330			
pH @25°C	pH Units		SM 4500H	10-Jan-22/O	7.46	7.18			
Nitrite (N)	mg/L	0.1	SM4110C	11-Jan-22/O	< 0.1	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	11-Jan-22/O	0.1	< 0.1			
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	12-Jan-22/K	66.2	22.3			
o-Phosphate (P)	mg/L	0.002	PE4500-S	12-Jan-22/K	4.38	1.71			
Phosphorus-Total	mg/L	0.01	E3199A.1	11-Jan-22/K	6.84	4.08			
Aluminum	mg/L	0.01	SM 3120	13-Jan-22/O	0.41	0.13			
Antimony	mg/L	0.0005	EPA 200.8	10-Jan-22/O	0.0006	0.0006			
Arsenic	mg/L	0.0005	EPA 200.8	10-Jan-22/O	< 0.0005	< 0.0005			
Barium	mg/L	0.001	SM 3120	13-Jan-22/O	0.016	0.006			
Beryllium	mg/L	0.002	SM 3120	13-Jan-22/O	< 0.002	< 0.002			
Cadmium	mg/L	0.000070	EPA 200.8	10-Jan-22/O	0.000215	0.000080			
Chromium	mg/L	0.002	SM 3120	13-Jan-22/O	0.002	< 0.002			
Cobalt	mg/L	0.005	SM 3120	13-Jan-22/O	< 0.005	< 0.005			
Copper	mg/L	0.002	SM 3120	13-Jan-22/O	0.336	0.257			
Iron	mg/L	0.005	SM 3120	13-Jan-22/O	1.04	0.696			
Lead	mg/L	0.0001	EPA 200.8	10-Jan-22/O	0.0062	0.0016			
Lithium	mg/L	0.01	SM 3120	13-Jan-22/O	< 0.01	< 0.01			
Manganese	mg/L	0.001	SM 3120	13-Jan-22/O	0.053	0.041			
Mercury	mg/L	0.00002	SM 3112 B	13-Jan-22/O	0.00062	< 0.00002			
Molybdenum	mg/L	0.01	SM 3120	13-Jan-22/O	< 0.01	< 0.01			
Nickel	mg/L	0.01	SM 3120	13-Jan-22/O	< 0.01	< 0.01			
Selenium	mg/L	0.005	EPA 200.8	10-Jan-22/O	< 0.005	< 0.005			

NOTE: The acceptable holding time of 48 hrs for Total & Fecal Coliform was exceeded upon arrival at the Lab.



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: G100690

REPORT No. B22-00719

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 10-Jan-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 20-Jan-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	WWTP Influent	WWTP Effluent		
					Sample I.D.				
					B22-00719-1	B22-00719-2			
					07-Jan-22	07-Jan-22			
Silver	mg/L	0.0001	EPA 200.8	10-Jan-22/O	0.0009	0.0001			
Strontium	mg/L	0.001	SM 3120	13-Jan-22/O	0.027	0.023			
Thallium	mg/L	0.0003	EPA 200.8	10-Jan-22/O	< 0.0003	< 0.0003			
Tin	mg/L	0.05	SM 3120	13-Jan-22/O	< 0.05	< 0.05			
Titanium	mg/L	0.005	SM 3120	13-Jan-22/O	0.008	< 0.005			
Uranium	mg/L	0.0003	EPA 200.8	10-Jan-22/O	< 0.0003	< 0.0003			
Vanadium	mg/L	0.005	SM 3120	13-Jan-22/O	< 0.005	< 0.005			
Zinc	mg/L	0.005	SM 3120	13-Jan-22/O	0.227	0.103			
Total Coliform	cfu/100mL	1	MOE	10-Jan-22/O	70000000	19000000			
Fecal Coliform	cfu/100mL	1	MOE	10-Jan-22/O	2300000	100000			

NOTE: The acceptable holding time of 48 hrs for Total & Fecal Coliform was exceeded upon arrival at the Lab.

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie



Greg Clarkin , BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: G095643

REPORT No. B22-03737

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 08-Feb-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 14-Feb-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.		WWTP	
					Sample I.D.	Date Collected	Influent	Effluent
BOD(5 day)	mg/L	3	SM 5210B	09-Feb-22/K			209	152
Total Suspended Solids	mg/L	3	SM2540D	10-Feb-22/K			168	144
Conductivity @25°C	µmho/cm	1	SM 2510B	09-Feb-22/O			396	309
pH @25°C	pH Units		SM 4500H	09-Feb-22/O			7.74	7.50
Nitrite (N)	mg/L	0.1	SM4110C	08-Feb-22/O			< 0.1	< 0.1
Nitrate (N)	mg/L	0.1	SM4110C	08-Feb-22/O			0.1	0.1
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	10-Feb-22/K			36.7	25.1
o-Phosphate (P)	mg/L	0.002	PE4500-S	10-Feb-22/K			3.35	2.04
Phosphorus-Total	mg/L	0.01	E3516.2	14-Feb-22/K			4.65	3.94
Aluminum	mg/L	0.01	SM 3120	09-Feb-22/O			0.11	0.10
Antimony	mg/L	0.0005	EPA 200.8	11-Feb-22/O			< 0.0005	< 0.0005
Arsenic	mg/L	0.0005	EPA 200.8	11-Feb-22/O			< 0.0005	< 0.0005
Barium	mg/L	0.001	SM 3120	09-Feb-22/O			0.006	0.005
Beryllium	mg/L	0.002	SM 3120	09-Feb-22/O			< 0.002	< 0.002
Cadmium	mg/L	0.000070	EPA 200.8	11-Feb-22/O			0.000114	0.000110
Chromium	mg/L	0.002	SM 3120	09-Feb-22/O			< 0.002	0.009
Cobalt	mg/L	0.005	SM 3120	09-Feb-22/O			< 0.005	< 0.005
Copper	mg/L	0.002	SM 3120	09-Feb-22/O			0.324	0.270
Iron	mg/L	0.005	SM 3120	09-Feb-22/O			0.318	0.259
Lead	mg/L	0.0001	EPA 200.8	11-Feb-22/O			0.0021	0.0013
Lithium	mg/L	0.01	SM 3120	09-Feb-22/O			< 0.01	< 0.01
Manganese	mg/L	0.001	SM 3120	09-Feb-22/O			0.026	0.025
Mercury	mg/L	0.00002	SM 3112 B	10-Feb-22/O			0.00003	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	09-Feb-22/O			< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	09-Feb-22/O			< 0.01	< 0.01
Selenium	mg/L	0.005	EPA 200.8	11-Feb-22/O			< 0.005	< 0.005



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: G095643

REPORT No. B22-03737

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 08-Feb-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 14-Feb-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-03737-1	B22-03737-2		
<b>Date Collected</b>	07-Feb-22	07-Feb-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Silver	mg/L	0.0001	EPA 200.8	11-Feb-22/O	< 0.0001	< 0.0001		
Strontium	mg/L	0.001	SM 3120	09-Feb-22/O	0.022	0.020		
Thallium	mg/L	0.0003	EPA 200.8	11-Feb-22/O	< 0.0003	< 0.0003		
Tin	mg/L	0.05	SM 3120	09-Feb-22/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	09-Feb-22/O	< 0.005	< 0.005		
Uranium	mg/L	0.0003	EPA 200.8	11-Feb-22/O	< 0.0003	< 0.0003		
Vanadium	mg/L	0.005	SM 3120	09-Feb-22/O	< 0.005	< 0.005		
Zinc	mg/L	0.005	SM 3120	09-Feb-22/O	0.130	0.102		
Total Coliform	cfu/100mL	1	MOE	08-Feb-22/O	35000000	21000000		
Fecal Coliform	cfu/100mL	1	MOE	08-Feb-22/O	7000000	5000000		

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Greg Clarkin , BSc., C. Chem  
 Lab Manager - Ottawa District

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**C.O.C.: DW 04569**

**REPORT No. B22-04569**

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 16-Feb-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 23-Feb-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	WTP Raw	WTP Raw (Total)	WTP Potable	WTP Potable (Total)
					Sample I.D.	Sample I.D.	Sample I.D.	Sample I.D.	
Date Collected					14-Feb-22	14-Feb-22	14-Feb-22	14-Feb-22	
Hardness (as CaCO3)	mg/L	1	SM 3120	18-Feb-22/O		20		21	
Hardness (as CaCO3)	mg/L	1	SM 3120	18-Feb-22/O			20		21
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	17-Feb-22/O		35		18	
Bicarbonate(as CaCO3)	mg/L	5	SM 2320B	17-Feb-22/O		35		18	
Carbonate (as CaCO3)	mg/L	5	SM 2320B	17-Feb-22/O		< 5		< 5	
Hydroxide	mg/L	5	EPA 310.2	17-Feb-22/O		< 5		< 5	
Acidity (as CaCO3)	mg/L	5	Subcontract	22-Feb-22		< 5		< 5	
pH @25°C	pH Units		SM 4500H	17-Feb-22/O		6.52		6.44	
Conductivity @25°C	µmho/cm	1	SM 2510B	17-Feb-22/O		44		46	
TDS(ion sum calc.)	mg/L	1	Calc.	22-Feb-22/O		34		25	
Total Suspended Solids	mg/L	3	SM2540D	17-Feb-22/K		< 3		< 3	
Turbidity	NTU	0.1	SM 2130	17-Feb-22/O		0.2		0.2	
REDOX potential	mV		In-House	17-Feb-22/R		350		773	
Chloride	mg/L	0.5	SM4110C	16-Feb-22/O		1.6		3.6	
Sulphate	mg/L	1	SM4110C	16-Feb-22/O		2		2	
Aluminum	mg/L	0.01	SM 3120	18-Feb-22/O		< 0.01		< 0.01	
Aluminum	mg/L	0.01	SM 3120	18-Feb-22/O			< 0.01		< 0.01
Antimony	mg/L	0.0001	EPA 200.8	18-Feb-22/O		< 0.0001		< 0.0001	
Antimony	mg/L	0.0001	EPA 200.8	18-Feb-22/O			0.0003		0.0003
Arsenic	mg/L	0.0001	EPA 200.8	18-Feb-22/O		< 0.0001		< 0.0001	
Arsenic	mg/L	0.0001	EPA 200.8	18-Feb-22/O			< 0.0001		< 0.0001
Barium	mg/L	0.001	SM 3120	18-Feb-22/O		0.001		0.002	
Barium	mg/L	0.001	SM 3120	18-Feb-22/O			0.002		0.002
Beryllium	mg/L	0.002	SM 3120	18-Feb-22/O		< 0.002		< 0.002	
Beryllium	mg/L	0.002	SM 3120	18-Feb-22/O			< 0.002		< 0.002
Cadmium	mg/L	0.000015	EPA 200.8	18-Feb-22/O		< 0.000015		< 0.000015	
Cadmium	mg/L	0.000015	EPA 200.8	18-Feb-22/O			< 0.000015		< 0.000015



Greg Clarkin , BSc., C. Chem  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: DW 04569

REPORT No. B22-04569

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 16-Feb-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 23-Feb-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	WTP Raw	WTP Raw (Total)	WTP Potable	WTP Potable (Total)
					Sample I.D.	WTP Raw	WTP Raw (Total)	WTP Potable	WTP Potable (Total)
					Date Collected	14-Feb-22	14-Feb-22	14-Feb-22	14-Feb-22
Chromium	mg/L	0.002	SM 3120	18-Feb-22/O		< 0.002		< 0.002	
Chromium	mg/L	0.002	SM 3120	18-Feb-22/O			< 0.002		< 0.002
Cobalt	mg/L	0.005	SM 3120	18-Feb-22/O		< 0.005		< 0.005	
Cobalt	mg/L	0.005	SM 3120	18-Feb-22/O			< 0.005		< 0.005
Copper	mg/L	0.002	SM 3120	18-Feb-22/O		0.002		0.065	
Copper	mg/L	0.002	SM 3120	18-Feb-22/O			0.002		0.066
Iron	mg/L	0.005	SM 3120	18-Feb-22/O		0.019		0.024	
Iron	mg/L	0.005	SM 3120	18-Feb-22/O			0.030		0.027
Lead	mg/L	0.00002	EPA 200.8	18-Feb-22/O		< 0.00002		0.00009	
Lead	mg/L	0.00002	EPA 200.8	18-Feb-22/O			< 0.00002		0.00013
Lithium	mg/L	0.01	SM 3120	18-Feb-22/O		< 0.01		< 0.01	
Lithium	mg/L	0.01	SM 3120	18-Feb-22/O			< 0.01		< 0.01
Manganese	mg/L	0.001	SM 3120	18-Feb-22/O		0.005		0.005	
Manganese	mg/L	0.001	SM 3120	18-Feb-22/O			0.005		0.005
Mercury	mg/L	0.00002	SM 3112 B	17-Feb-22/O		< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	18-Feb-22/O		< 0.01		< 0.01	
Molybdenum	mg/L	0.01	SM 3120	18-Feb-22/O			< 0.01		< 0.01
Nickel	mg/L	0.01	SM 3120	18-Feb-22/O		< 0.01		< 0.01	
Nickel	mg/L	0.01	SM 3120	18-Feb-22/O			< 0.01		< 0.01
Selenium	mg/L	0.001	EPA 200.8	18-Feb-22/O		< 0.001		< 0.001	
Selenium	mg/L	0.001	EPA 200.8	18-Feb-22/O			< 0.001		< 0.001
Silver	mg/L	0.0001	EPA 200.8	18-Feb-22/O		< 0.0001		< 0.0001	
Silver	mg/L	0.0001	EPA 200.8	18-Feb-22/O			< 0.0001		< 0.0001
Strontium	mg/L	0.001	SM 3120	18-Feb-22/O		0.014		0.016	
Strontium	mg/L	0.001	SM 3120	18-Feb-22/O			0.014		0.016
Thallium	mg/L	0.00005	EPA 200.8	18-Feb-22/O		< 0.00005		< 0.00005	
Thallium	mg/L	0.00005	EPA 200.8	18-Feb-22/O			< 0.00005		< 0.00005



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: DW 04569

REPORT No. B22-04569

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 16-Feb-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 23-Feb-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	WTP Raw	WTP Raw (Total)	WTP Potable	WTP Potable (Total)
					Sample I.D.	B22-04569-1	B22-04569-2	B22-04569-3	B22-04569-4
					Date Collected	14-Feb-22	14-Feb-22	14-Feb-22	14-Feb-22
Tin	mg/L	0.05	SM 3120	18-Feb-22/O	< 0.05		< 0.05		< 0.05
Tin	mg/L	0.05	SM 3120	18-Feb-22/O		< 0.05		< 0.05	
Titanium	mg/L	0.005	SM 3120	18-Feb-22/O	< 0.005		< 0.005		< 0.005
Titanium	mg/L	0.005	SM 3120	18-Feb-22/O		< 0.005		< 0.005	
Uranium	mg/L	0.00005	EPA 200.8	18-Feb-22/O	< 0.00005		< 0.00005		< 0.00005
Uranium	mg/L	0.00005	EPA 200.8	18-Feb-22/O		< 0.00005		< 0.00005	
Vanadium	mg/L	0.005	SM 3120	18-Feb-22/O	< 0.005		< 0.005		< 0.005
Vanadium	mg/L	0.005	SM 3120	18-Feb-22/O		< 0.005		< 0.005	
Zinc	mg/L	0.005	SM 3120	18-Feb-22/O	< 0.005		0.012		0.014
Zinc	mg/L	0.005	SM 3120	18-Feb-22/O		0.005		0.014	
Total Organic Carbon	mg/L	0.2	EPA 415.2	17-Feb-22/O	1.3		1.2		
TIC	mg/L	0.5	EPA 415.1	17-Feb-22/O	14.4		8.1		
Fecal Coliform	cfu/100mL	1	MOE	16-Feb-22/O	0		0		
Anion Sum	meq/L		Calc.	22-Feb-22/O	0.800		0.505		
Cation Sum	meq/L		Calc.	22-Feb-22/O	0.444		0.464		
% Difference	%		Calc.	22-Feb-22/O	28.6		4.23		
Ion Ratio	AS/CS		Calc.	22-Feb-22/O	1.80		1.09		
Sodium Adsorption Ratio	-		Calc.	22-Feb-22/O	0.0890		0.0888		
Conductivity (calc.)	µmho/cm		Calc.	22-Feb-22/O	62		52		
EC(calc.)/EC(actual)	-		Calc.	22-Feb-22/O	1.40		1.15		
TDS(calc.)/EC(actual)	-		Calc.	22-Feb-22/O	0.764		0.559		
Langelier Index(25°C)	S.I.		Calc.	22-Feb-22/O	-2.47		-2.81		

1. Subcontracted to Testmark Labs



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: G095644

REPORT No. B22-06771

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 11-Mar-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 21-Mar-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	WWTP Influent	WWTP Effluent		
					Sample I.D.				
					B22-06771-1	B22-06771-2			
					10-Mar-22	10-Mar-22			
BOD(5 day)	mg/L	3	SM 5210B	14-Mar-22/K	148	130			
Total Suspended Solids	mg/L	3	SM2540D	14-Mar-22/K	350	116			
Conductivity @25°C	µmho/cm	1	SM 2510B	11-Mar-22/O	393	311			
pH @25°C	pH Units		SM 4500H	11-Mar-22/O	7.57	7.54			
Nitrite (N)	mg/L	0.1	SM4110C	14-Mar-22/O	< 1	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	14-Mar-22/O	< 1	< 0.1			
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	14-Mar-22/K	36.9	18.7			
o-Phosphate (P)	mg/L	0.002	PE4500-S	14-Mar-22/K	3.40	0.926			
Phosphorus-Total	mg/L	0.01	E3516.2	15-Mar-22/K	4.92	2.84			
Aluminum	mg/L	0.01	SM 3120	14-Mar-22/O	0.10	0.13			
Antimony	mg/L	0.0005	EPA 200.8	16-Mar-22/O	< 0.0005	< 0.0005			
Arsenic	mg/L	0.0005	EPA 200.8	14-Mar-22/O	< 0.0005	< 0.0005			
Barium	mg/L	0.001	SM 3120	14-Mar-22/O	0.006	0.005			
Beryllium	mg/L	0.002	SM 3120	14-Mar-22/O	< 0.002	< 0.002			
Cadmium	mg/L	0.000070	EPA 200.8	14-Mar-22/O	0.000079	0.000105			
Chromium	mg/L	0.002	SM 3120	14-Mar-22/O	< 0.002	< 0.002			
Cobalt	mg/L	0.005	SM 3120	14-Mar-22/O	< 0.005	< 0.005			
Copper	mg/L	0.002	SM 3120	14-Mar-22/O	0.290	0.253			
Iron	mg/L	0.005	SM 3120	14-Mar-22/O	0.328	0.199			
Lead	mg/L	0.0001	EPA 200.8	14-Mar-22/O	0.0046	0.0016			
Lithium	mg/L	0.01	SM 3120	14-Mar-22/O	< 0.01	< 0.01			
Manganese	mg/L	0.001	SM 3120	14-Mar-22/O	0.019	0.016			
Mercury	mg/L	0.00002	SM 3112 B	15-Mar-22/O	0.00002	< 0.00002			
Molybdenum	mg/L	0.01	SM 3120	14-Mar-22/O	< 0.01	< 0.01			
Nickel	mg/L	0.01	SM 3120	14-Mar-22/O	< 0.01	< 0.01			
Selenium	mg/L	0.005	EPA 200.8	14-Mar-22/O	< 0.005	< 0.005			



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: G095644

REPORT No. B22-06771

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 11-Mar-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 21-Mar-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	WWTP Influent	WWTP Effluent		
Silver	mg/L	0.0001	EPA 200.8	14-Mar-22/O	< 0.0001	< 0.0001		
Strontium	mg/L	0.001	SM 3120	14-Mar-22/O	0.020	0.019		
Thallium	mg/L	0.0003	EPA 200.8	14-Mar-22/O	< 0.0003	< 0.0003		
Tin	mg/L	0.05	SM 3120	14-Mar-22/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	14-Mar-22/O	< 0.005	< 0.005		
Uranium	mg/L	0.0003	EPA 200.8	16-Mar-22/O	< 0.0003	< 0.0003		
Vanadium	mg/L	0.005	SM 3120	14-Mar-22/O	< 0.005	< 0.005		
Zinc	mg/L	0.005	SM 3120	14-Mar-22/O	0.118	0.082		
Total Coliform	cfu/100mL	1	MOE	11-Mar-22/O	37000000	11000000		
Fecal Coliform	cfu/100mL	1	MOE	11-Mar-22/O	3800000	1300000		

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Greg Clarkin , BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: G095644

REPORT No. B22-06774

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 11-Mar-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 25-Mar-22

SAMPLE MATRIX: Drinking Water

P.O. NUMBER:

WATERWORKS NO.

Parameter	Qty	Site Analyzed	Analyst Initials	Date Analyzed	Lab Method	Reference Method
A - Wet Chem	2	Holly Lane	SYL	11-Mar-22	A-ALK-02 O	EPA 310.2
Alkalinity (as CaCO3)	2	Holly Lane	SYL	11-Mar-22	A-ALK-03 (o)	SM 2320B
Conductivity	2	Holly Lane	JGC	11-Mar-22	A-COND-02 (o)	SM 2510B
Anions	2	Holly Lane	VK	11-Mar-22	A-IC-01 (o)	SM4110C
pH	2	Holly Lane	SYL	11-Mar-22	A-PH-01 (o)	SM 4500H
Physical	2	Richmond Hill	nka	21-Mar-22	A-REDOX	In-House
Total Suspended Solids	2	Kingston	bbr	14-Mar-22	A-TSS-001 (k)	SM2540D
Turbidity	2	Holly Lane	ST	14-Mar-22	A-TURB-01 (o)	SM 2130
B - Bacteriological	2	Holly Lane	SLO	11-Mar-22	B-MFFC-01 (o)	MOE E3371
A - Wet Chem	2	Holly Lane	VK	11-Mar-22	C-TC	EPA 415.1
TOC	2	Holly Lane	VK	11-Mar-22	C-TOC-01	EPA 415.2
Mercury	4	Holly Lane	PBK	15-Mar-22	D-HG-02 (o)	SM 3112 B
Metals - ICP-OES	2	Holly Lane	AHM	11-Mar-22	D-ICP-01 (o)	SM 3120
Metals - ICP-OES	2	Holly Lane	NHG	14-Mar-22	D-ICP-01 (o)	SM 3120
Metals-ICP-MS	2	Holly Lane	TPR	17-Mar-22	D-ICPMS Dissolved 7800	EPA 200.8
Metals - ICP-MS	2	Holly Lane	TPR	14-Mar-22	D-ICPMS-01 (o)	EPA 200.8
Calculation	2	Holly Lane	JGC	14-Mar-22	D-Ion Balance	Calc.
Subcontracted	2	Default Site	JGC	24-Mar-22	S-Acidity	Subcontract

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: G095644

REPORT No. B22-06774

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 11-Mar-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 25-Mar-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Client I.D.		Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)	Canadian DW Guidelines CDWG	
	Sample I.D.	Date Collected	B22-06774-1 10-Mar-22	B22-06774-2 10-Mar-22	B22-06774-3 10-Mar-22	B22-06774-4 10-Mar-22		
	Units	R.L.						
Hardness (as CaCO3)	mg/L	1	20		20			
Hardness (as CaCO3)	mg/L	1		20		20		
Alkalinity(CaCO3) to pH4.5	mg/L	5	23		16			
Bicarbonate(as CaCO3)	mg/L	5	23		16			
Carbonate (as CaCO3)	mg/L	5	< 5		< 5			
Hydroxide	mg/L	5	< 5		< 5			
Acidity (as CaCO3)	mg/L	5	< 5	<sup>1</sup>	< 5	<sup>1</sup>		
pH @25°C	pH Units		<b>6.35</b>		<b>6.21</b>		8.5	
Conductivity @25°C	µmho/cm	1	45		46			
TDS(ion sum calc.)	mg/L	1	25		28		500	
Total Suspended Solids	mg/L	3	< 3		< 3			
Turbidity	NTU	0.1	0.2		0.2		1	
REDOX potential	mV		362		400			
Chloride	mg/L	0.5	1.0		2.8		250	
Sulphate	mg/L	1	1		7		500	
Aluminum	mg/L	0.01	< 0.01		< 0.01		2.9	
Aluminum	mg/L	0.01		< 0.01		< 0.01	2.9	
Antimony	mg/L	0.0001	< 0.0001		< 0.0001		0.006	
Antimony	mg/L	0.0001		0.0002		0.0003	0.006	
Arsenic	mg/L	0.0001	< 0.0001		< 0.0001		0.010	
Arsenic	mg/L	0.0001		< 0.0001		< 0.0001	0.010	
Barium	mg/L	0.001	0.002		0.002		2.0	
Barium	mg/L	0.001		0.002		0.002	2.0	
Beryllium	mg/L	0.002	< 0.002		< 0.002			
Beryllium	mg/L	0.002		< 0.002		< 0.002		

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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Fax: 613-526-1244

DATE RECEIVED: 11-Mar-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 25-Mar-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)	Canadian DW Guidelines CDWG	
			Sample I.D. Date Collected	B22-06774-1 10-Mar-22	B22-06774-2 10-Mar-22	B22-06774-3 10-Mar-22	B22-06774-4 10-Mar-22		
Cadmium	mg/L	0.000015		< 0.000015		< 0.000015		0.007	
Cadmium	mg/L	0.000015			< 0.000015		< 0.000015	0.007	
Chromium	mg/L	0.002		< 0.002		< 0.002		0.05	
Chromium	mg/L	0.002			< 0.002		< 0.002	0.05	
Cobalt	mg/L	0.005		< 0.005		< 0.005			
Cobalt	mg/L	0.005			< 0.005		< 0.005		
Copper	mg/L	0.002		< 0.002		0.024		2	
Copper	mg/L	0.002			< 0.002		0.024	2	
Iron	mg/L	0.005		0.016		0.014		0.3	
Iron	mg/L	0.005			0.023		0.058	0.3	
Lead	mg/L	0.00002		< 0.00002		0.00004		0.005	
Lead	mg/L	0.00002			< 0.00002		0.00005	0.005	
Lithium	mg/L	0.01		< 0.01		< 0.01			
Lithium	mg/L	0.01			< 0.01		< 0.01		
Manganese	mg/L	0.001		0.004		0.003		0.12	
Manganese	mg/L	0.001			0.004		0.004	0.12	
Mercury	mg/L	0.00002		< 0.00002	< 0.00002	< 0.00002	< 0.00002	0.001	
Molybdenum	mg/L	0.01		< 0.01		< 0.01			
Molybdenum	mg/L	0.01			< 0.01		< 0.01		
Nickel	mg/L	0.01		< 0.01		< 0.01			
Nickel	mg/L	0.01			< 0.01		< 0.01		
Selenium	mg/L	0.001		< 0.001		< 0.001		0.05	
Selenium	mg/L	0.001			< 0.001		< 0.001	0.05	
Silver	mg/L	0.0001		< 0.0001		< 0.0001			
Silver	mg/L	0.0001			< 0.0001		< 0.0001		
Strontium	mg/L	0.001		0.016		0.014		7.0	

Canadian DW Guidelines - Drinking Water  
CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
Lab Manager - Ottawa District

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.



C.O.C.: G095644

REPORT No. B22-06774

**Report To:**

**City of Iqaluit**

PO Box 460,  
Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
Ottawa Ontario K1V 7P1  
Tel: 613-526-0123  
Fax: 613-526-1244

DATE RECEIVED: 11-Mar-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 25-Mar-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Client I.D.		Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)	Canadian DW Guidelines CDWG	
	Sample I.D.	Date Collected	B22-06774-1 10-Mar-22	B22-06774-2 10-Mar-22	B22-06774-3 10-Mar-22	B22-06774-4 10-Mar-22		
	Units	R.L.						
Strontium	mg/L	0.001		0.016		0.014	7.0	
Thallium	mg/L	0.00005	< 0.00005		< 0.00005			
Thallium	mg/L	0.00005		< 0.00005		< 0.00005		
Tin	mg/L	0.05	< 0.05		< 0.05			
Tin	mg/L	0.05		< 0.05		< 0.05		
Titanium	mg/L	0.005	< 0.005		< 0.005			
Titanium	mg/L	0.005		< 0.005		< 0.005		
Uranium	mg/L	0.00005	< 0.00005		< 0.00005		0.02	
Uranium	mg/L	0.00005		< 0.00005		< 0.00005	0.02	
Vanadium	mg/L	0.005	< 0.005		< 0.005			
Vanadium	mg/L	0.005		< 0.005		< 0.005		
Zinc	mg/L	0.005	< 0.005		< 0.005		5	
Zinc	mg/L	0.005		0.007		0.008	5	
Total Organic Carbon	mg/L	0.2	4.4		2.7			
TIC	mg/L	0.5	10.4		9.3			
Fecal Coliform	cfu/100mL	1	0		0			
Anion Sum	meq/L		0.513		0.549			
Cation Sum	meq/L		0.457		0.436			
% Difference	%		5.81		11.4			
Ion Ratio	AS/CS		1.12		1.26			
Sodium Adsorption Ratio	-		0.0941		0.0943			
Conductivity (calc.)	µmho/cm		49		55			
EC(calc.)/EC(actual)	-		1.10		1.19			
TDS(calc.)/EC(actual)	-		0.551		0.602			
Langelier Index(25°C)	S.I.		-2.81		-3.36			

1 Subcontracted to Testmark Labs

Canadian DW Guidelines - Drinking Water  
CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
Lab Manager - Ottawa District

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C.O.C.: G095644

REPORT No. B22-06774

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 11-Mar-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 25-Mar-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

**Summary of Exceedances**

Canadian Drinking Water Guidelines		
Test A- Raw WTP	Found Value	Limit
pH @25°C (pH Units)	6.35	8.5
Test A- Potable WTP	Found Value	Limit
pH @25°C (pH Units)	6.21	8.5

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

C.O.C.: G095651

REPORT No. B22-09300

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 05-Apr-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 12-Apr-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	WWTP Influent	WWTP Effluent		
					Sample I.D.				
					B22-09300-1	B22-09300-2			
					04-Apr-22	04-Apr-22			
BOD(5 day)	mg/L	3	SM 5210B	07-Apr-22/K	239	255			
Total Suspended Solids	mg/L	3	SM2540D	07-Apr-22/K	880	240			
Conductivity @25°C	µmho/cm	1	SM 2510B	05-Apr-22/O	379	487			
pH @25°C	pH Units		SM 4500H	05-Apr-22/O	7.29	7.64			
Nitrite (N)	mg/L	0.1	SM4110C	06-Apr-22/O	< 0.1	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	06-Apr-22/O	0.1	< 0.1			
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	07-Apr-22/K	31.7	31.0			
o-Phosphate (P)	mg/L	0.002	PE4500-S	07-Apr-22/K	3.34	4.51			
Phosphorus-Total	mg/L	0.01	E3516.2	07-Apr-22/K	6.27	7.30			
Aluminum	mg/L	0.01	SM 3120	08-Apr-22/O	0.78	0.19			
Antimony	mg/L	0.0005	EPA 200.8	06-Apr-22/O	< 0.0005	< 0.0005			
Arsenic	mg/L	0.0005	EPA 200.8	06-Apr-22/O	< 0.0005	< 0.0005			
Barium	mg/L	0.001	SM 3120	08-Apr-22/O	0.028	0.008			
Beryllium	mg/L	0.002	SM 3120	08-Apr-22/O	< 0.002	< 0.002			
Cadmium	mg/L	0.000070	EPA 200.8	06-Apr-22/O	0.000257	0.000149			
Chromium	mg/L	0.002	SM 3120	08-Apr-22/O	0.004	< 0.002			
Cobalt	mg/L	0.005	SM 3120	08-Apr-22/O	< 0.005	< 0.005			
Copper	mg/L	0.002	SM 3120	08-Apr-22/O	0.593	0.407			
Iron	mg/L	0.005	SM 3120	08-Apr-22/O	2.35	0.892			
Lead	mg/L	0.0001	EPA 200.8	06-Apr-22/O	0.0202	0.0019			
Lithium	mg/L	0.01	SM 3120	08-Apr-22/O	< 0.01	< 0.01			
Manganese	mg/L	0.001	SM 3120	08-Apr-22/O	0.046	0.036			
Mercury	mg/L	0.00002	SM 3112 B	06-Apr-22/O	0.00024	0.00009			
Molybdenum	mg/L	0.01	SM 3120	08-Apr-22/O	< 0.01	< 0.01			
Nickel	mg/L	0.01	SM 3120	08-Apr-22/O	< 0.01	< 0.01			
Selenium	mg/L	0.005	EPA 200.8	06-Apr-22/O	< 0.005	< 0.005			



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: G095651

REPORT No. B22-09300

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 05-Apr-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 12-Apr-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-09300-1	B22-09300-2		
<b>Date Collected</b>	04-Apr-22	04-Apr-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Silver	mg/L	0.0001	EPA 200.8	06-Apr-22/O	0.0002	< 0.0001		
Strontium	mg/L	0.001	SM 3120	08-Apr-22/O	0.031	0.026		
Thallium	mg/L	0.0003	EPA 200.8	06-Apr-22/O	< 0.0003	< 0.0003		
Tin	mg/L	0.05	SM 3120	08-Apr-22/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	08-Apr-22/O	0.020	< 0.005		
Uranium	mg/L	0.0003	EPA 200.8	06-Apr-22/O	< 0.0003	< 0.0003		
Vanadium	mg/L	0.005	SM 3120	08-Apr-22/O	< 0.005	< 0.005		
Zinc	mg/L	0.005	SM 3120	08-Apr-22/O	0.337	0.177		
Total Coliform	cfu/100mL	1	MOE	05-Apr-22/O	47000000	87000000		
Fecal Coliform	cfu/100mL	1	MOE	05-Apr-22/O	3900000	5400000		



Greg Clarkin , BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: DW 105894

REPORT No. B22-09529

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-Apr-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 12-Apr-22

SAMPLE MATRIX: Drinking Water

P.O. NUMBER: 460

WATERWORKS NO.

Parameter	Qty	Site Analyzed	Analyst Initials	Date Analyzed	Lab Method	Reference Method
A - Wet Chem	2	Holly Lane	SYL	07-Apr-22	A-ALK-02 O	EPA 310.2
Alkalinity (as CaCO3)	2	Holly Lane	SYL	07-Apr-22	A-ALK-03 (o)	SM 2320B
Conductivity	2	Holly Lane	SYL	07-Apr-22	A-COND-02 (o)	SM 2510B
Anions	2	Holly Lane	VK	06-Apr-22	A-IC-01 (o)	SM4110C
pH	2	Holly Lane	SYL	07-Apr-22	A-PH-01 (o)	SM 4500H
Physical	2	Richmond Hill	nka	08-Apr-22	A-REDOX	In-House
Total Suspended Solids	2	Kingston	IFG	08-Apr-22	A-TSS-001 (k)	SM2540D
Turbidity	2	Holly Lane	ST	07-Apr-22	A-TURB-01 (o)	SM 2130
B - Bacteriological	2	Holly Lane	SLO	06-Apr-22	B-MFFC-01 (o)	MOE E3371
A - Wet Chem	2	Holly Lane	VK	06-Apr-22	C-TC	EPA 415.1
TOC	2	Holly Lane	VK	06-Apr-22	C-TOC-01	EPA 415.2
Mercury	4	Holly Lane	PBK	07-Apr-22	D-HG-02 (o)	SM 3112 B
Metals - ICP-OES	2	Holly Lane	AHM	08-Apr-22	D-ICP-01 (o)	SM 3120
Metals-ICP-MS	2	Holly Lane	TPR	08-Apr-22	D-ICPMS Dissolved 7800	EPA 200.8
Metals - ICP-MS	2	Holly Lane	TPR	08-Apr-22	D-ICPMS-01 (o)	EPA 200.8
Calculation	2	Holly Lane	JGC	11-Apr-22	D-Ion Balance	Calc.
Subcontracted	2	Default Site	TYP	08-Apr-22	S-Acidity	Subcontract

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: DW 105894

REPORT No. B22-09529

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-Apr-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 12-Apr-22

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Client I.D.		Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)	Canadian DW Guidelines CDWG	
	Sample I.D.	Date Collected	B22-09529-1 05-Apr-22	B22-09529-2 05-Apr-22	B22-09529-3 05-Apr-22	B22-09529-4 05-Apr-22		
Hardness (as CaCO3)	mg/L	1	22		22			
Hardness (as CaCO3)	mg/L	1		22		23		
Alkalinity(CaCO3) to pH4.5	mg/L	5	17		15			
Bicarbonate(as CaCO3)	mg/L	5	17		15			
Carbonate (as CaCO3)	mg/L	5	< 5		< 5			
Hydroxide	mg/L	5	< 5		< 5			
Acidity (as CaCO3)	mg/L	5	< 5 <sup>1</sup>		< 5 <sup>1</sup>			
pH @25°C	pH Units		7.29		6.99		8.5	
Conductivity @25°C	µmho/cm	1	46		48			
TDS(ion sum calc.)	mg/L	1	24		24		500	
Total Suspended Solids	mg/L	3	< 3		< 3			
Turbidity	NTU	0.1	0.3		0.2		1	
REDOX potential	mV		428		599			
Chloride	mg/L	0.5	1.7		3.2		250	
Sulphate	mg/L	1	3		3		500	
Aluminum	mg/L	0.01	< 0.01		< 0.01		2.9	
Aluminum	mg/L	0.01		0.01		< 0.01	2.9	
Antimony	mg/L	0.0001	< 0.0001		< 0.0001		0.006	
Antimony	mg/L	0.0001		< 0.0001		0.0004	0.006	
Arsenic	mg/L	0.0001	< 0.0001		< 0.0001		0.010	
Arsenic	mg/L	0.0001		< 0.0001		< 0.0001	0.010	
Barium	mg/L	0.001	0.002		0.002		2.0	
Barium	mg/L	0.001		0.002		0.003	2.0	
Beryllium	mg/L	0.002	< 0.002		< 0.002			
Beryllium	mg/L	0.002		< 0.002		< 0.002		

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: DW 105894

REPORT No. B22-09529

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-Apr-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 12-Apr-22

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Client I.D.		Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)	Canadian DW Guidelines CDWG	
	Sample I.D.	Date Collected	B22-09529-1 05-Apr-22	B22-09529-2 05-Apr-22	B22-09529-3 05-Apr-22	B22-09529-4 05-Apr-22		
	Units	R.L.						
Cadmium	mg/L	0.000015	< 0.000015		< 0.000015		0.007	
Cadmium	mg/L	0.000015		< 0.000015		< 0.000015	0.007	
Chromium	mg/L	0.002	< 0.002		< 0.002		0.05	
Chromium	mg/L	0.002		< 0.002		< 0.002	0.05	
Cobalt	mg/L	0.005	< 0.005		< 0.005			
Cobalt	mg/L	0.005		< 0.005		< 0.005		
Copper	mg/L	0.002	0.025		0.037		2	
Copper	mg/L	0.002		0.025		0.036	2	
Iron	mg/L	0.005	0.017		0.017		0.3	
Iron	mg/L	0.005		0.029		0.030	0.3	
Lead	mg/L	0.00002	0.00004		0.00029		0.005	
Lead	mg/L	0.00002		0.00005		0.00009	0.005	
Lithium	mg/L	0.01	< 0.01		< 0.01			
Lithium	mg/L	0.01		< 0.01		< 0.01		
Manganese	mg/L	0.001	0.004		0.004		0.12	
Manganese	mg/L	0.001		0.004		0.004	0.12	
Mercury	mg/L	0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	0.001	
Molybdenum	mg/L	0.01	< 0.01		< 0.01			
Molybdenum	mg/L	0.01		< 0.01		< 0.01		
Nickel	mg/L	0.01	< 0.01		< 0.01			
Nickel	mg/L	0.01		< 0.01		< 0.01		
Selenium	mg/L	0.001	< 0.001		< 0.001		0.05	
Selenium	mg/L	0.001		< 0.001		< 0.001	0.05	
Silver	mg/L	0.0001	< 0.0001		< 0.0001			
Silver	mg/L	0.0001		< 0.0001		< 0.0001		
Strontium	mg/L	0.001	0.017		0.016		7.0	

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: DW 105894

REPORT No. B22-09529

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-Apr-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 12-Apr-22

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Client I.D.		Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)	Canadian DW Guidelines CDWG	
	Sample I.D.	Date Collected	B22-09529-1 05-Apr-22	B22-09529-2 05-Apr-22	B22-09529-3 05-Apr-22	B22-09529-4 05-Apr-22		
Strontium	mg/L	R.L.		0.017		0.016	7.0	
Thallium	mg/L	0.00005	< 0.00005		< 0.00005			
Thallium	mg/L	0.00005		< 0.00005		< 0.00005		
Tin	mg/L	0.05	< 0.05		< 0.05			
Tin	mg/L	0.05		< 0.05		< 0.05		
Titanium	mg/L	0.005	< 0.005		< 0.005			
Titanium	mg/L	0.005		< 0.005		< 0.005		
Uranium	mg/L	0.00005	< 0.00005		< 0.00005		0.02	
Uranium	mg/L	0.00005		0.00007		< 0.00005	0.02	
Vanadium	mg/L	0.005	< 0.005		< 0.005			
Vanadium	mg/L	0.005		< 0.005		< 0.005		
Zinc	mg/L	0.005	< 0.005		< 0.005		5	
Zinc	mg/L	0.005		< 0.005		0.006	5	
Total Organic Carbon	mg/L	0.2	2.3		2.2			
TIC	mg/L	0.5	4.59		4.35			
Fecal Coliform	cfu/100mL	1	0		0			
Anion Sum	meq/L		0.450		0.456			
Cation Sum	meq/L		0.482		0.491			
% Difference	%		3.45		3.65			
Ion Ratio	AS/CS		0.933		0.930			
Sodium Adsorption Ratio	-		0.0965		0.0945			
Conductivity (calc.)	µmho/cm		49		51			
EC(calc.)/EC(actual)	-		1.06		1.07			
TDS(calc.)/EC(actual)	-		0.515		0.511			
Langelier Index(25°C)	S.I.		-1.96		-2.30			

1 Subcontracted to Testmark Labs

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: DW 105894

REPORT No. B22-09529

**Report To:**

**City of Iqaluit**

PO Box 460,  
Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
Ottawa Ontario K1V 7P1  
Tel: 613-526-0123  
Fax: 613-526-1244

DATE RECEIVED: 06-Apr-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 12-Apr-22

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

**Summary of Exceedances**

Canadian DW Guidelines - Drinking Water  
CDWG - Canadian Drinking Water Guidelines

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie



Greg Clarkin, BSc., C. Chem  
Lab Manager - Ottawa District

C.O.C.: G095654

REPORT No. B22-13155

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-May-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 12-May-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	WWTP Influent	WWTP Effluent		
					Sample I.D.				
					B22-13155-1	B22-13155-2			
					04-May-22	04-May-22			
					04-May-22	04-May-22			
BOD(5 day)	mg/L	3	SM 5210B	06-May-22/K	749	119			
Total Suspended Solids	mg/L	3	SM2540D	11-May-22/K	1920	65			
Conductivity @25°C	µmho/cm	1	SM 2510B	09-May-22/O	651	331			
pH @25°C	pH Units		SM 4500H	09-May-22/O	6.30	7.04			
Nitrite (N)	mg/L	0.1	SM4110C	09-May-22/O	< 0.1	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	09-May-22/O	0.1	< 0.1			
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	09-May-22/K	49.4	19.9			
o-Phosphate (P)	mg/L	0.002	PE4500-S	09-May-22/K	9.01	1.43			
Phosphorus-Total	mg/L	0.01	E3516.2	10-May-22/K	14.5	3.24			
Aluminum	mg/L	0.01	SM 3120	10-May-22/O	0.60	0.17			
Antimony	mg/L	0.0005	EPA 200.8	10-May-22/O	0.0011	0.0010			
Arsenic	mg/L	0.0005	EPA 200.8	10-May-22/O	< 0.0005	< 0.0005			
Barium	mg/L	0.001	SM 3120	10-May-22/O	0.020	0.005			
Beryllium	mg/L	0.002	SM 3120	10-May-22/O	< 0.002	< 0.002			
Cadmium	mg/L	0.000070	EPA 200.8	10-May-22/O	0.000199	< 0.000070			
Chromium	mg/L	0.002	SM 3120	10-May-22/O	0.003	< 0.002			
Cobalt	mg/L	0.005	SM 3120	10-May-22/O	< 0.005	< 0.005			
Copper	mg/L	0.002	SM 3120	10-May-22/O	0.433	0.241			
Iron	mg/L	0.005	SM 3120	10-May-22/O	1.87	0.254			
Lead	mg/L	0.0001	EPA 200.8	10-May-22/O	0.0227	0.0010			
Lithium	mg/L	0.01	SM 3120	10-May-22/O	< 0.01	< 0.01			
Manganese	mg/L	0.001	SM 3120	10-May-22/O	0.063	0.020			
Mercury	mg/L	0.00002	SM 3112 B	11-May-22/O	0.00017	< 0.00002			
Molybdenum	mg/L	0.01	SM 3120	10-May-22/O	< 0.01	< 0.01			
Nickel	mg/L	0.01	SM 3120	10-May-22/O	< 0.01	< 0.01			
Selenium	mg/L	0.005	EPA 200.8	10-May-22/O	< 0.005	< 0.005			



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: G095654

REPORT No. B22-13155

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-May-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 12-May-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	WWTP Influent	WWTP Effluent		
					Sample I.D.				
					B22-13155-1	B22-13155-2			
					04-May-22	04-May-22			
Silver	mg/L	0.0001	EPA 200.8	10-May-22/O	0.0003	< 0.0001			
Strontium	mg/L	0.001	SM 3120	10-May-22/O	0.035	0.022			
Thallium	mg/L	0.0003	EPA 200.8	10-May-22/O	< 0.0003	< 0.0003			
Tin	mg/L	0.05	SM 3120	10-May-22/O	< 0.05	< 0.05			
Titanium	mg/L	0.005	SM 3120	10-May-22/O	0.015	< 0.005			
Uranium	mg/L	0.0003	EPA 200.8	10-May-22/O	< 0.0003	< 0.0003			
Vanadium	mg/L	0.005	SM 3120	10-May-22/O	< 0.005	< 0.005			
Zinc	mg/L	0.005	SM 3120	10-May-22/O	0.229	0.084			
Total Coliform	cfu/100mL	1	MOE	06-May-22/O	92000000	27000000			
Fecal Coliform	cfu/100mL	1	MOE	06-May-22/O	6900000	2800000			

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Greg Clarkin , BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: DW 105899

REPORT No. B22-13165

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-May-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 18-May-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Qty	Site Analyzed	Analyst Initials	Date Analyzed	Lab Method	Reference Method
A - Wet Chem	2	Holly Lane	SYL	09-May-22	A-ALK-02 O	EPA 310.2
Alkalinity (as CaCO3)	2	Holly Lane	SYL	09-May-22	A-ALK-03 (o)	SM 2320B
Conductivity	2	Holly Lane	SYL	09-May-22	A-COND-02 (o)	SM 2510B
Anions	2	Holly Lane	VK	06-May-22	A-IC-01 (o)	SM4110C
pH	1	Holly Lane	SYL	09-May-22	A-PH-01 (o)	SM 4500H
pH	1	Holly Lane	SYL	10-May-22	A-PH-01 (o)	SM 4500H
Physical	2	Richmond Hill	nka	10-May-22	A-REDOX	In-House
Total Suspended Solids	2	Kingston	TK	12-May-22	A-TSS-001 (k)	SM2540D
Turbidity	2	Holly Lane	ST	10-May-22	A-TURB-01 (o)	SM 2130
B - Bacteriological	2	Holly Lane	SLO	06-May-22	B-MFFC-01 (o)	MOE E3371
A - Wet Chem	2	Holly Lane	VK	09-May-22	C-TC	EPA 415.1
TOC	2	Holly Lane	VK	09-May-22	C-TOC-01	EPA 415.2
Mercury	4	Holly Lane	PBK	11-May-22	D-HG-02 (o)	SM 3112 B
Metals - ICP-OES	2	Holly Lane	AHM	10-May-22	D-ICP-01 (o)	SM 3120
Metals - ICP-OES	2	Holly Lane	JGC	06-May-22	D-ICP-01 (o)	SM 3120
Metals-ICP-MS	2	Holly Lane	TPR	10-May-22	D-ICPMS Dissolved 7800	EPA 200.8
Metals - ICP-MS	2	Holly Lane	TPR	11-May-22	D-ICPMS-01 (o)	EPA 200.8
Calculation	2	Holly Lane	JGC	10-May-22	D-Ion Balance	Calc.
Subcontracted	2	Default Site	TYP	12-May-22	S-Acidity	Subcontract

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: DW 105899

REPORT No. B22-13165

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-May-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 18-May-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Client I.D.		Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)	Canadian DW Guidelines CDWG	
	Sample I.D.	Date Collected	B22-13165-1 04-May-22	B22-13165-2 04-May-22	B22-13165-3 04-May-22	B22-13165-4 04-May-22		
	Units	R.L.						
Hardness (as CaCO3)	mg/L	1	21		22			
Hardness (as CaCO3)	mg/L	1		22		22		
Alkalinity(CaCO3) to pH4.5	mg/L	5	22		16			
Bicarbonate(as CaCO3)	mg/L	5	22		16			
Carbonate (as CaCO3)	mg/L	5	< 5		< 5			
Hydroxide	mg/L	5	< 5		< 5			
Acidity (as CaCO3)	mg/L	5	< 5	<sup>1</sup>	< 5	<sup>1</sup>		
pH @25°C	pH Units				<b>6.25</b>		8.5	
pH @25°C	pH Units		6.51				8.5	
Conductivity @25°C	µmho/cm	1	47		49			
TDS(ion sum calc.)	mg/L	1	27		25		500	
Total Suspended Solids	mg/L	3	< 3		< 3			
Turbidity	NTU	0.1	0.3		0.2		1	
REDOX potential	mV		428		526			
Chloride	mg/L	0.5	1.7		3.3		250	
Sulphate	mg/L	1	3		3		500	
Aluminum	mg/L	0.01	< 0.01		< 0.01		2.9	
Aluminum	mg/L	0.01		0.02		0.02	2.9	
Antimony	mg/L	0.0001	< 0.0001		< 0.0001		0.006	
Antimony	mg/L	0.0001		0.0002		0.0003	0.006	
Arsenic	mg/L	0.0001	< 0.0001		< 0.0001		0.010	
Arsenic	mg/L	0.0001		< 0.0001		< 0.0001	0.010	
Barium	mg/L	0.001	0.002		0.002		2.0	
Barium	mg/L	0.001		0.002		0.002	2.0	
Beryllium	mg/L	0.002	< 0.002		< 0.002			

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: DW 105899

REPORT No. B22-13165

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-May-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 18-May-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Client I.D.		Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)	Canadian DW Guidelines CDWG	
	Sample I.D.	Date Collected	B22-13165-1 04-May-22	B22-13165-2 04-May-22	B22-13165-3 04-May-22	B22-13165-4 04-May-22		
	Units	R.L.						
Beryllium	mg/L	0.002		< 0.002		< 0.002		
Cadmium	mg/L	0.000015	< 0.000015		< 0.000015		0.007	
Cadmium	mg/L	0.000015		< 0.000015		< 0.000015	0.007	
Chromium	mg/L	0.002	< 0.002		< 0.002		0.05	
Chromium	mg/L	0.002		< 0.002		< 0.002	0.05	
Cobalt	mg/L	0.005	< 0.005		< 0.005			
Cobalt	mg/L	0.005		< 0.005		< 0.005		
Copper	mg/L	0.002	< 0.002		0.042		2	
Copper	mg/L	0.002		0.004		0.042	2	
Iron	mg/L	0.005	0.015		0.013		0.3	
Iron	mg/L	0.005		0.038		0.031	0.3	
Lead	mg/L	0.00002	0.00010		0.00008		0.005	
Lead	mg/L	0.00002		0.00005		0.00008	0.005	
Lithium	mg/L	0.01	< 0.01		< 0.01			
Lithium	mg/L	0.01		< 0.01		< 0.01		
Manganese	mg/L	0.001	0.008		0.002		0.12	
Manganese	mg/L	0.001		0.008		0.004	0.12	
Mercury	mg/L	0.00002	< 0.00002	< 0.00002	< 0.00002	< 0.00002	0.001	
Molybdenum	mg/L	0.01	< 0.01		< 0.01			
Molybdenum	mg/L	0.01		< 0.01		< 0.01		
Nickel	mg/L	0.01	< 0.01		< 0.01			
Nickel	mg/L	0.01		< 0.01		< 0.01		
Selenium	mg/L	0.001	< 0.001		< 0.001		0.05	
Selenium	mg/L	0.001		< 0.001		< 0.001	0.05	
Silver	mg/L	0.0001	< 0.0001		< 0.0001			
Silver	mg/L	0.0001		< 0.0001		< 0.0001		

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

C.O.C.: DW 105899

REPORT No. B22-13165

**Report To:**

**City of Iqaluit**

PO Box 460,  
Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
Ottawa Ontario K1V 7P1  
Tel: 613-526-0123  
Fax: 613-526-1244

DATE RECEIVED: 06-May-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 18-May-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Client I.D.		Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)	Canadian DW Guidelines CDWG	
	Sample I.D.	Date Collected	B22-13165-1 04-May-22	B22-13165-2 04-May-22	B22-13165-3 04-May-22	B22-13165-4 04-May-22		
	Units	R.L.						
Strontium	mg/L	0.001	0.015		0.017		7.0	
Strontium	mg/L	0.001		0.016		0.015	7.0	
Thallium	mg/L	0.00005	< 0.00005		< 0.00005			
Thallium	mg/L	0.00005		< 0.00005		< 0.00005		
Tin	mg/L	0.05	< 0.05		< 0.05			
Tin	mg/L	0.05		< 0.05		< 0.05		
Titanium	mg/L	0.005	< 0.005		< 0.005			
Titanium	mg/L	0.005		< 0.005		< 0.005		
Uranium	mg/L	0.00005	< 0.00005		< 0.00005		0.02	
Uranium	mg/L	0.00005		< 0.00005		< 0.00005	0.02	
Vanadium	mg/L	0.005	< 0.005		< 0.005			
Vanadium	mg/L	0.005		< 0.005		< 0.005		
Zinc	mg/L	0.005	< 0.005		< 0.005		5	
Zinc	mg/L	0.005		0.006		< 0.005	5	
Total Organic Carbon	mg/L	0.2	2.4		2.3			
TIC	mg/L	0.5	9.0		8.6			
Fecal Coliform	cfu/100mL	1	0		0			
Anion Sum	meq/L		0.550		0.460			
Cation Sum	meq/L		0.479		0.493			
% Difference	%		6.84		3.46			
Ion Ratio	AS/CS		1.15		0.933			
Sodium Adsorption Ratio	-		0.0992		0.0971			
Conductivity (calc.)	µmho/cm		53		52			
EC(calc.)/EC(actual)	-		1.13		1.06			
TDS(calc.)/EC(actual)	-		0.567		0.503			
Langelier Index(25°C)	S.I.		-2.64		-3.03			

Canadian DW Guidelines - Drinking Water  
CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
Lab Manager - Ottawa District

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: DW 105899

REPORT No. B22-13165

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-May-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 18-May-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)	Canadian DW Guidelines CDWG				
			Sample I.D.	Date Collected								
			B22-13165-1	04-May-22	B22-13165-2	04-May-22	B22-13165-3	04-May-22	B22-13165-4	04-May-22		

1 Subcontracted to Testmark Labs

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: DW 105899

REPORT No. B22-13165

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 06-May-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 18-May-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

**Summary of Exceedances**

Canadian Drinking Water Guidelines		
Test A- Potable WTP	Found Value	Limit
pH @25°C (pH Units)	6.25	8.5

Canadian DW Guidelines - Drinking Water  
 CDWG - Canadian Drinking Water Guidelines



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

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C.O.C.: G095656

REPORT No. B22-16642

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 02-Jun-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 14-Jun-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-16642-1	B22-16642-2		
<b>Date Collected</b>	01-Jun-22	01-Jun-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Silver	mg/L	0.0001	EPA 200.8	13-Jun-22/O	< 0.0001	< 0.0001		
Strontium	mg/L	0.001	SM 3120	13-Jun-22/O	0.030	0.030		
Thallium	mg/L	0.0003	EPA 200.8	13-Jun-22/O	< 0.0003	< 0.0003		
Tin	mg/L	0.05	SM 3120	13-Jun-22/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	13-Jun-22/O	0.014	< 0.005		
Uranium	mg/L	0.0003	EPA 200.8	13-Jun-22/O	< 0.0003	< 0.0003		
Vanadium	mg/L	0.005	SM 3120	13-Jun-22/O	< 0.005	< 0.005		
Zinc	mg/L	0.005	SM 3120	13-Jun-22/O	0.185	0.131		
Total Coliform	cfu/100mL	1	MOE E3371	02-Jun-22/O	125000000	110000000		
Fecal Coliform	cfu/100mL	1	MOE E3371	02-Jun-22/O	9000000	12600000		



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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C.O.C.: G095608

REPORT No. B22-17677

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22

JOB/PROJECT NO.: Test E

DATE REPORTED: 17-Jun-22

P.O. NUMBER: 460

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	Detention Pond 2		
<b>Sample I.D.</b>	B22-17677-1		
<b>Date Collected</b>	08-Jun-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD(5 day)	mg/L	3	SM 5210B	10-Jun-22/K	< 3		
COD	mg/L	5	SM5220C	14-Jun-22/K	68		
Total Organic Carbon	mg/L	0.2	EPA 415.2	10-Jun-22/O	1.9		
Total Suspended Solids	mg/L	3	SM2540D	15-Jun-22/K	36		
Turbidity	NTU	0.1	SM 2130	10-Jun-22/O	8.5		
pH @25°C	pH Units		SM 4500H	10-Jun-22/O	7.11		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	10-Jun-22/K	0.34		
Total Kjeldahl Nitrogen	mg/L	0.1	E3516.2	10-Jun-22/K	1.9		
Phosphorus-Total	mg/L	0.01	E3516.2	10-Jun-22/K	0.29		
Aluminum	mg/L	0.01	SM 3120	13-Jun-22/O	0.32		
Arsenic	mg/L	0.0005	EPA 200.8	13-Jun-22/O	< 0.0005		
Antimony	mg/L	0.0005	EPA 200.8	13-Jun-22/O	< 0.0005		
Barium	mg/L	0.001	SM 3120	13-Jun-22/O	0.005		
Beryllium	mg/L	0.0005	EPA 200.8	13-Jun-22/O	< 0.0005		
Chromium	mg/L	0.001	EPA 200.8	13-Jun-22/O	0.002		
Cobalt	mg/L	0.0005	EPA 200.8	13-Jun-22/O	< 0.0005		
Copper	mg/L	0.0005	EPA 200.8	13-Jun-22/O	0.0027		
Iron	mg/L	0.005	SM 3120	13-Jun-22/O	0.783		
Lithium	mg/L	0.01	SM 3120	13-Jun-22/O	0.01		
Manganese	mg/L	0.001	SM 3120	13-Jun-22/O	0.036		
Mercury	mg/L	0.00002	SM 3112 B	14-Jun-22/O	< 0.00002		
Molybdenum	mg/L	0.0005	EPA 200.8	13-Jun-22/O	< 0.0005		
Nickel	mg/L	0.001	EPA 200.8	13-Jun-22/O	< 0.001		
Selenium	mg/L	0.005	EPA 200.8	13-Jun-22/O	< 0.005		
Silver	mg/L	0.0001	EPA 200.8	13-Jun-22/O	< 0.0001		
Strontium	mg/L	0.001	SM 3120	13-Jun-22/O	0.028		



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

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C.O.C.: G095608

REPORT No. B22-17677

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 09-Jun-22

JOB/PROJECT NO.: Test E

DATE REPORTED: 17-Jun-22

P.O. NUMBER: 460

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	Detention Pond 2			
<b>Sample I.D.</b>	B22-17677-1			
<b>Date Collected</b>	08-Jun-22			

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Tin	mg/L	0.05	SM 3120	13-Jun-22/O	< 0.05			
Titanium	mg/L	0.005	SM 3120	13-Jun-22/O	0.035			
Uranium	mg/L	0.0003	EPA 200.8	13-Jun-22/O	< 0.0003			
Vanadium	mg/L	0.0005	EPA 200.8	13-Jun-22/O	0.0007			
Zinc	mg/L	0.005	SM 3120	13-Jun-22/O	0.007			
Total Coliform	cfu/100mL	1	MOE E3371	09-Jun-22/O	< 2			
Fecal Coliform	cfu/100mL	1	MOE E3371	09-Jun-22/O	0			
Benzene	µg/L	0.5	EPA 8260	13-Jun-22/R	< 0.5			
Toluene	µg/L	0.5	EPA 8260	13-Jun-22/R	< 0.5			
Ethylbenzene	µg/L	0.5	EPA 8260	13-Jun-22/R	< 0.5			
Xylene, m,p-	µg/L	1.0	EPA 8260	13-Jun-22/R	< 1.0			
Xylene, o-	µg/L	0.5	EPA 8260	13-Jun-22/R	< 0.5			
Xylene, m,p,o-	µg/L	1.1	EPA 8260	13-Jun-22/R	< 1.1			
Toluene-d8 (SS)	% rec.		EPA 8260	13-Jun-22/R	96.5			
Poly-Chlorinated Biphenyls (PCB's)	µg/L	0.05	EPA 8082	13-Jun-22/K	< 0.05			



Greg Clarkin, BSc., C. Chem  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

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C.O.C.: G095611

REPORT No. B22-22252

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 14-Jul-22

JOB/PROJECT NO.: Test E

DATE REPORTED: 22-Jul-22

P.O. NUMBER: 460

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	1QA-08A	1QA-08B	Pond #2 (Middle Decant)
<b>Sample I.D.</b>	B22-22252-1	B22-22252-2	B22-22252-3
<b>Date Collected</b>	13-Jul-22	13-Jul-22	13-Jul-22

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD(5 day)	mg/L	3	SM 5210B	15-Jul-22/K	4	4	13
COD	mg/L	5	SM5220C	19-Jul-22/K	83	107	54
Total Organic Carbon	mg/L	0.2	EPA 415.2	14-Jul-22/O	7.1	10.6	9.9
Total Suspended Solids	mg/L	3	SM2540D	18-Jul-22/K	30	58	270
Turbidity	NTU	0.1	SM 2130	18-Jul-22/O	6.3	3.4	11.9
pH @25°C	pH Units		SM 4500H	14-Jul-22/O	7.98	8.78	8.10
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	19-Jul-22/K	0.36	0.75	0.17
Total Kjeldahl Nitrogen	mg/L	0.1	E3516.2	19-Jul-22/K	3.0	4.7	1.2
Phosphorus-Total	mg/L	0.01	E3516.2	19-Jul-22/K	0.29	1.25	0.03
Aluminum	mg/L	0.01	SM 3120	19-Jul-22/O	0.18	0.06	0.04
Arsenic	mg/L	0.0005	EPA 200.8	15-Jul-22/O	0.0007	0.0016	0.0011
Antimony	mg/L	0.0005	EPA 200.8	15-Jul-22/O	< 0.0005	0.0005	0.0005
Barium	mg/L	0.001	SM 3120	19-Jul-22/O	0.022	0.009	0.022
Beryllium	mg/L	0.0005	EPA 200.8	15-Jul-22/O	< 0.0005	< 0.0005	< 0.0005
Chromium	mg/L	0.001	EPA 200.8	15-Jul-22/O	< 0.001	< 0.001	< 0.001
Cobalt	mg/L	0.0005	EPA 200.8	15-Jul-22/O	< 0.0005	< 0.0005	0.0012
Copper	mg/L	0.0005	EPA 200.8	15-Jul-22/O	0.0043	0.0019	0.0010
Iron	mg/L	0.005	SM 3120	19-Jul-22/O	1.37	0.173	2.36
Lithium	mg/L	0.01	SM 3120	19-Jul-22/O	0.02	0.01	< 0.01
Manganese	mg/L	0.001	SM 3120	19-Jul-22/O	0.203	0.090	4.66
Mercury	mg/L	0.00002	SM 3112 B	19-Jul-22/O	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.0005	EPA 200.8	15-Jul-22/O	0.0013	0.0007	0.0014
Nickel	mg/L	0.001	EPA 200.8	15-Jul-22/O	0.001	0.005	0.003
Selenium	mg/L	0.005	EPA 200.8	15-Jul-22/O	< 0.005	< 0.005	< 0.005
Silver	mg/L	0.0001	EPA 200.8	15-Jul-22/O	< 0.0001	< 0.0001	< 0.0001



Tahir Yapici Ph.D  
 Lab Supervisor

R.L. = Reporting Limit

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Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

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C.O.C.: G095611

REPORT No. B22-22252

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 14-Jul-22

JOB/PROJECT NO.: Test E

DATE REPORTED: 22-Jul-22

P.O. NUMBER: 460

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	1QA-08A	1QA-08B	Pond #2 (Middle Decant)
<b>Sample I.D.</b>	B22-22252-1	B22-22252-2	B22-22252-3
<b>Date Collected</b>	13-Jul-22	13-Jul-22	13-Jul-22

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Strontium	mg/L	0.001	SM 3120	19-Jul-22/O	0.294	0.273	0.344
Tin	mg/L	0.05	SM 3120	19-Jul-22/O	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	19-Jul-22/O	0.010	< 0.005	< 0.005
Uranium	mg/L	0.0003	EPA 200.8	15-Jul-22/O	< 0.0003	< 0.0003	0.0003
Vanadium	mg/L	0.0005	EPA 200.8	15-Jul-22/O	0.0006	0.0010	< 0.0005
Zinc	mg/L	0.005	SM 3120	19-Jul-22/O	0.013	0.013	0.006
Total Coliform	cfu/100mL	1	MOE E3371	14-Jul-22/O	2	0	7
Fecal Coliform	cfu/100mL	1	MOE E3371	14-Jul-22/O	0	0	6
Benzene	µg/L	0.5	EPA 8260	18-Jul-22/R	< 0.5	< 0.5	< 0.5
Toluene	µg/L	0.5	EPA 8260	18-Jul-22/R	< 0.5	< 0.5	7.2
Ethylbenzene	µg/L	0.5	EPA 8260	18-Jul-22/R	< 0.5	< 0.5	1.2
Xylene, m,p-	µg/L	1.0	EPA 8260	18-Jul-22/R	< 1.0	< 1.0	11.8
Xylene, o-	µg/L	0.5	EPA 8260	18-Jul-22/R	< 0.5	< 0.5	5.8
Xylene, m,p,o-	µg/L	1.1	EPA 8260	18-Jul-22/R	< 1.1	< 1.1	17.6
Toluene-d8 (SS)	% rec.		EPA 8260	18-Jul-22/R	109	110	108
Poly-Chlorinated Biphenyls (PCB's)	µg/L	0.05	EPA 8082	20-Jul-22/K	< 0.05	< 0.05	< 0.05



Tahir Yapici Ph.D  
 Lab Supervisor

R.L. = Reporting Limit

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The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: ---

REPORT No. B22-23005

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 20-Jul-22

JOB/PROJECT NO.: Test E

DATE REPORTED: 28-Jul-22

P.O. NUMBER: 460

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	Pond #2 (End of Decant)			
<b>Sample I.D.</b>	B22-23005-1			
<b>Date Collected</b>	19-Jul-22			

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD(5 day)	mg/L	3	SM 5210B	22-Jul-22/K	4		
COD	mg/L	5	SM5220C	26-Jul-22/K	124		
Total Organic Carbon	mg/L	0.2	EPA 415.2	20-Jul-22/O	13.5		
Total Suspended Solids	mg/L	3	SM2540D	22-Jul-22/K	28		
Turbidity	NTU	0.1	SM 2130	22-Jul-22/O	6.2		
pH @25°C	pH Units		SM 4500H	21-Jul-22/O	8.47		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	25-Jul-22/K	0.41		
Total Kjeldahl Nitrogen	mg/L	0.1	E3516.2	26-Jul-22/K	6.0		
Phosphorus-Total	mg/L	0.01	E3516.2	26-Jul-22/K	1.34		
Aluminum	mg/L	0.01	SM 3120	25-Jul-22/O	0.19		
Arsenic	mg/L	0.0005	EPA 200.8	21-Jul-22/O	0.0017		
Antimony	mg/L	0.0005	EPA 200.8	21-Jul-22/O	0.0006		
Barium	mg/L	0.001	SM 3120	25-Jul-22/O	0.011		
Beryllium	mg/L	0.0005	EPA 200.8	21-Jul-22/O	< 0.0005		
Chromium	mg/L	0.001	EPA 200.8	21-Jul-22/O	< 0.001		
Cobalt	mg/L	0.0005	EPA 200.8	21-Jul-22/O	< 0.0005		
Copper	mg/L	0.0005	EPA 200.8	21-Jul-22/O	0.0013		
Iron	mg/L	0.005	SM 3120	25-Jul-22/O	0.419		
Lithium	mg/L	0.01	SM 3120	25-Jul-22/O	0.01		
Manganese	mg/L	0.001	SM 3120	25-Jul-22/O	0.103		
Mercury	mg/L	0.00002	SM 3112 B	21-Jul-22/O	< 0.00002		
Molybdenum	mg/L	0.0005	EPA 200.8	21-Jul-22/O	0.0012		
Nickel	mg/L	0.001	EPA 200.8	21-Jul-22/O	0.005		
Selenium	mg/L	0.005	EPA 200.8	21-Jul-22/O	< 0.005		
Silver	mg/L	0.0001	EPA 200.8	21-Jul-22/O	0.0002		



Tahir Yapici Ph.D  
 Lab Supervisor

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C.O.C.: ---

REPORT No. B22-23005

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 20-Jul-22

JOB/PROJECT NO.: Test E

DATE REPORTED: 28-Jul-22

P.O. NUMBER: 460

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	Pond #2 (End of Decant)		
<b>Sample I.D.</b>	B22-23005-1		
<b>Date Collected</b>	19-Jul-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Strontium	mg/L	0.001	SM 3120	25-Jul-22/O	0.307		
Tin	mg/L	0.05	SM 3120	25-Jul-22/O	< 0.05		
Titanium	mg/L	0.005	SM 3120	25-Jul-22/O	0.008		
Uranium	mg/L	0.0003	EPA 200.8	21-Jul-22/O	< 0.0003		
Vanadium	mg/L	0.0005	EPA 200.8	21-Jul-22/O	0.0013		
Zinc	mg/L	0.005	SM 3120	25-Jul-22/O	0.015		
Total Coliform	cfu/100mL	1	MOE E3371	20-Jul-22/O	0		
Fecal Coliform	cfu/100mL	1	MOE E3371	20-Jul-22/O	0		
Benzene	µg/L	0.5	EPA 8260	22-Jul-22/R	< 0.5		
Toluene	µg/L	0.5	EPA 8260	22-Jul-22/R	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	22-Jul-22/R	< 0.5		
Xylene, m,p-	µg/L	1.0	EPA 8260	22-Jul-22/R	< 1.0		
Xylene, o-	µg/L	0.5	EPA 8260	22-Jul-22/R	< 0.5		
Xylene, m,p,o-	µg/L	1.1	EPA 8260	22-Jul-22/R	< 1.1		
Toluene-d8 (SS)	% rec.		EPA 8260	22-Jul-22/R	101		
Poly-Chlorinated Biphenyls (PCB's)	µg/L	0.05	EPA 8082	26-Jul-22/K	< 0.05		



Tahir Yapici Ph.D  
 Lab Supervisor

R.L. = Reporting Limit

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C.O.C.: ---

REPORT No. B22-24732

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 04-Aug-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 11-Aug-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-24732-1	B22-24732-2		
<b>Date Collected</b>	03-Aug-22	04-Aug-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
BOD(5 day)	mg/L	3	SM 5210B	05-Aug-22/K	166	97		
Total Suspended Solids	mg/L	3	SM2540D	09-Aug-22/K	154	92		
Conductivity @25°C	µmho/cm	1	SM 2510B	08-Aug-22/O	384	443		
pH @25°C	pH Units		SM 4500H	08-Aug-22/O	7.25	7.44		
Nitrite (N)	mg/L	0.1	SM4110C	04-Aug-22/O	< 0.1	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	04-Aug-22/O	< 0.1	< 0.1		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	08-Aug-22/K	26.1	33.9		
o-Phosphate (P)	mg/L	0.002	PE4500-S	08-Aug-22/K	2.12	2.42		
Phosphorus-Total	mg/L	0.01	E3516.2	09-Aug-22/K	9.71	4.57		
Aluminum	mg/L	0.01	SM 3120	08-Aug-22/O	0.15	0.17		
Antimony	mg/L	0.0005	EPA 200.8	08-Aug-22/O	0.0007	< 0.0005		
Arsenic	mg/L	0.0005	EPA 200.8	08-Aug-22/O	< 0.0005	< 0.0005		
Barium	mg/L	0.001	SM 3120	08-Aug-22/O	0.007	0.008		
Beryllium	mg/L	0.002	SM 3120	08-Aug-22/O	< 0.002	< 0.002		
Cadmium	mg/L	0.000070	EPA 200.8	08-Aug-22/O	< 0.000070	0.000141		
Chromium	mg/L	0.002	SM 3120	08-Aug-22/O	< 0.002	< 0.002		
Cobalt	mg/L	0.005	SM 3120	08-Aug-22/O	< 0.005	< 0.005		
Copper	mg/L	0.002	SM 3120	08-Aug-22/O	0.293	0.257		
Iron	mg/L	0.005	SM 3120	08-Aug-22/O	0.473	0.892		
Lead	mg/L	0.0001	EPA 200.8	08-Aug-22/O	0.0014	0.0025		
Lithium	mg/L	0.01	SM 3120	08-Aug-22/O	< 0.01	< 0.01		
Manganese	mg/L	0.001	SM 3120	08-Aug-22/O	0.075	0.095		
Mercury	mg/L	0.00002	SM 3112 B	09-Aug-22/O	< 0.00002	0.00003		
Molybdenum	mg/L	0.01	SM 3120	08-Aug-22/O	< 0.01	< 0.01		
Nickel	mg/L	0.01	SM 3120	08-Aug-22/O	< 0.01	< 0.01		
Selenium	mg/L	0.005	EPA 200.8	08-Aug-22/O	< 0.005	< 0.005		



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: ---

**REPORT No. B22-24732**

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 04-Aug-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 11-Aug-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-24732-1	B22-24732-2		
<b>Date Collected</b>	03-Aug-22	04-Aug-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Silver	mg/L	0.0001	EPA 200.8	08-Aug-22/O	0.0001	< 0.0001		
Strontium	mg/L	0.001	SM 3120	08-Aug-22/O	0.029	0.032		
Thallium	mg/L	0.0003	EPA 200.8	08-Aug-22/O	< 0.0003	< 0.0003		
Tin	mg/L	0.05	SM 3120	08-Aug-22/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	08-Aug-22/O	< 0.005	< 0.005		
Uranium	mg/L	0.0003	EPA 200.8	08-Aug-22/O	< 0.0003	< 0.0003		
Vanadium	mg/L	0.005	SM 3120	08-Aug-22/O	< 0.005	< 0.005		
Zinc	mg/L	0.005	SM 3120	08-Aug-22/O	0.113	0.157		
Total Coliform	cfu/100mL	1	MOE E3371	04-Aug-22/O	180000000	150000000		
Fecal Coliform	cfu/100mL	1	MOE E3371	04-Aug-22/O	3000000	1200000		

Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

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Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: G110355

REPORT No. B22-28893

**Report To:**

**City of Iqaluit**

PO Box 460,

Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 08-Sep-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 21-Sep-22

P.O. NUMBER: 460

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-28893-1	B22-28893-2		
<b>Date Collected</b>	06-Sep-22	06-Sep-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
BOD(5 day)	mg/L	3	SM 5210B	09-Sep-22/K	189	128		
Total Suspended Solids	mg/L	3	SM2540D	13-Sep-22/K	335	90		
Conductivity @25°C	µmho/cm	1	SM 2510B	09-Sep-22/O	435	476		
pH @25°C	pH Units		SM 4500H	09-Sep-22/O	7.46	7.56		
Nitrite (N)	mg/L	0.1	SM4110C	08-Sep-22/O	< 0.1	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	08-Sep-22/O	< 0.1	< 0.1		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	13-Sep-22/K	25.9	3.24		
o-Phosphate (P)	mg/L	0.002	PE4500-S	13-Sep-22/K	1.90	0.195		
Phosphorus-Total	mg/L	0.01	E3516.2	19-Sep-22/K	4.36	4.01		
Aluminum	mg/L	0.01	SM 3120	09-Sep-22/O	0.34	0.17		
Antimony	mg/L	0.0005	EPA 200.8	09-Sep-22/O	0.0008	0.0007		
Arsenic	mg/L	0.0005	EPA 200.8	09-Sep-22/O	< 0.0005	< 0.0005		
Barium	mg/L	0.001	SM 3120	09-Sep-22/O	0.013	0.009		
Beryllium	mg/L	0.002	SM 3120	09-Sep-22/O	< 0.002	< 0.002		
Cadmium	mg/L	0.00007	EPA 200.8	09-Sep-22/O	0.000182	0.000109		
Chromium	mg/L	0.002	SM 3120	09-Sep-22/O	0.004	< 0.002		
Cobalt	mg/L	0.005	SM 3120	09-Sep-22/O	< 0.005	< 0.005		
Copper	mg/L	0.002	SM 3120	09-Sep-22/O	0.289	0.192		
Iron	mg/L	0.005	SM 3120	09-Sep-22/O	1.34	0.597		
Lead	mg/L	0.0001	EPA 200.8	09-Sep-22/O	0.0107	0.0021		
Lithium	mg/L	0.01	SM 3120	09-Sep-22/O	< 0.01	< 0.01		
Manganese	mg/L	0.001	SM 3120	09-Sep-22/O	0.114	0.103		
Mercury	mg/L	0.00002	SM 3112 B	09-Sep-22/O	< 0.00002	< 0.00002		
Molybdenum	mg/L	0.01	SM 3120	09-Sep-22/O	< 0.01	< 0.01		
Nickel	mg/L	0.01	SM 3120	09-Sep-22/O	< 0.01	< 0.01		
Selenium	mg/L	0.005	EPA 200.8	09-Sep-22/O	< 0.005	< 0.005		



Tahir Yapici Ph.D

Lab Manager - Ottawa District

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: G110355

REPORT No. B22-28893

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 08-Sep-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 21-Sep-22

P.O. NUMBER: 460

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-28893-1	B22-28893-2		
<b>Date Collected</b>	06-Sep-22	06-Sep-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Silver	mg/L	0.0001	EPA 200.8	09-Sep-22/O	0.0004	0.0001		
Strontium	mg/L	0.001	SM 3120	09-Sep-22/O	0.057	0.052		
Thallium	mg/L	0.0003	EPA 200.8	09-Sep-22/O	< 0.0003	< 0.0003		
Tin	mg/L	0.05	SM 3120	09-Sep-22/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	09-Sep-22/O	0.007	0.006		
Uranium	mg/L	0.0003	EPA 200.8	09-Sep-22/O	0.0003	< 0.0003		
Vanadium	mg/L	0.005	SM 3120	09-Sep-22/O	< 0.005	< 0.005		
Zinc	mg/L	0.005	SM 3120	09-Sep-22/O	0.175	0.086		
Total Coliform	cfu/100mL	1	MOE E3371	08-Sep-22/O	170000000	140000000		
Fecal Coliform	cfu/100mL	1	MOE E3371	08-Sep-22/O	9000000	7000000		

Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: ---

REPORT No. B22-31153

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 04-Oct-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 18-Oct-22

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

<b>Client I.D.</b>	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)
<b>Sample I.D.</b>	B22-31153-1	B22-31153-2	B22-31153-3	B22-31153-4
<b>Date Collected</b>	03-Oct-22	03-Oct-22	03-Oct-22	03-Oct-22

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO3)	mg/L	1	SM 3120	07-Oct-22/O	17		18	
Hardness (as CaCO3)	mg/L	1	SM 3120	06-Oct-22/O		19		20
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	05-Oct-22/O	25		22	
Bicarbonate(as CaCO3)	mg/L	5	SM 2320B	05-Oct-22/O	25		22	
Carbonate (as CaCO3)	mg/L	5	SM 2320B	05-Oct-22/O	< 5		< 5	
Acidity (as CaCO3)	mg/L	5	Subcontract	12-Sep-22	< 5	<sup>2</sup>	9	
pH @25°C	pH Units		SM 4500H	05-Oct-22/O	6.37		6.48	
Conductivity @25°C	µmho/cm	1	SM 2510B	05-Oct-22/O	37		42	
TDS(ion sum calc.)	mg/L	1	Calc.	05-Oct-22/O	28		28	
Total Suspended Solids	mg/L	3	SM2540D	06-Oct-22/K	5		10	
Turbidity	NTU	0.1	SM 2130	06-Oct-22/O	0.8		0.7	
REDOX potential	mV		In-House	07-Oct-22/R	372		700	
Chloride	mg/L	0.5	SM4110C	04-Oct-22/O	1.3		3.0	
Sulphate	mg/L	1	SM4110C	04-Oct-22/O	5		5	
Aluminum	mg/L	0.01	SM 3120	07-Oct-22/O	< 0.01		< 0.01	
Aluminum	mg/L	0.01	SM 3120	06-Oct-22/O		< 0.01		< 0.01
Antimony	mg/L	0.0001	EPA 200.8	05-Oct-22/O	< 0.0001		< 0.0001	
Antimony	mg/L	0.0001	EPA 200.8	07-Oct-22/O		0.0004		0.0003
Arsenic	mg/L	0.0001	EPA 200.8	05-Oct-22/O	< 0.0001		< 0.0001	
Arsenic	mg/L	0.0001	EPA 200.8	07-Oct-22/O		< 0.0001		< 0.0001
Barium	mg/L	0.001	SM 3120	07-Oct-22/O	< 0.001		< 0.001	
Barium	mg/L	0.001	SM 3120	06-Oct-22/O		< 0.001		< 0.001
Beryllium	mg/L	0.002	SM 3120	07-Oct-22/O	< 0.002		< 0.002	
Beryllium	mg/L	0.002	SM 3120	06-Oct-22/O		< 0.002		< 0.002
Cadmium	mg/L	0.000010	EPA 200.8	05-Oct-22/O	< 0.000010		< 0.000010	
Cadmium	mg/L	0.000015	EPA 200.8	07-Oct-22/O		< 0.000015		< 0.000015
Chromium	mg/L	0.002	SM 3120	07-Oct-22/O	< 0.002		< 0.002	



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

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C.O.C.: ---

REPORT No. B22-31153

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 04-Oct-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 18-Oct-22

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

<b>Client I.D.</b>	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)
<b>Sample I.D.</b>	B22-31153-1	B22-31153-2	B22-31153-3	B22-31153-4
<b>Date Collected</b>	03-Oct-22	03-Oct-22	03-Oct-22	03-Oct-22

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Chromium	mg/L	0.002	SM 3120	06-Oct-22/O		< 0.002		< 0.002
Cobalt	mg/L	0.005	SM 3120	07-Oct-22/O	0.006		< 0.005	
Cobalt	mg/L	0.005	SM 3120	06-Oct-22/O		< 0.005		< 0.005
Copper	mg/L	0.002	SM 3120	07-Oct-22/O	< 0.002		0.008	
Copper	mg/L	0.002	SM 3120	06-Oct-22/O		< 0.002		0.007
Iron	mg/L	0.005	SM 3120	07-Oct-22/O	< 0.005		< 0.005	
Iron	mg/L	0.005	SM 3120	06-Oct-22/O		0.026		0.025
Lead	mg/L	0.00002	EPA 200.8	05-Oct-22/O	0.00003		0.00020	
Lead	mg/L	0.00002	EPA 200.8	07-Oct-22/O		0.00003		0.00021
Lithium	mg/L	0.01	SM 3120	07-Oct-22/O	< 0.01		< 0.01	
Lithium	mg/L	0.01	SM 3120	06-Oct-22/O		0.02		< 0.01
Manganese	mg/L	0.001	SM 3120	07-Oct-22/O	0.004		0.003	
Manganese	mg/L	0.001	SM 3120	06-Oct-22/O		0.004		0.004
Mercury	mg/L	0.00002	SM 3112 B	06-Oct-22/O	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	07-Oct-22/O	< 0.01		< 0.01	
Molybdenum	mg/L	0.01	SM 3120	06-Oct-22/O		< 0.01		< 0.01
Nickel	mg/L	0.01	SM 3120	07-Oct-22/O	< 0.01		< 0.01	
Nickel	mg/L	0.01	SM 3120	06-Oct-22/O		< 0.01		< 0.01
Selenium	mg/L	0.001	EPA 200.8	05-Oct-22/O	< 0.001		< 0.001	
Selenium	mg/L	0.001	EPA 200.8	07-Oct-22/O		< 0.001		< 0.001
Silver	mg/L	0.0001	EPA 200.8	05-Oct-22/O	< 0.0001		< 0.0001	
Silver	mg/L	0.0001	EPA 200.8	07-Oct-22/O		< 0.0001		< 0.0001
Strontium	mg/L	0.001	SM 3120	07-Oct-22/O	0.012		0.012	
Strontium	mg/L	0.001	SM 3120	06-Oct-22/O		0.012		0.013
Thallium	mg/L	0.00005	EPA 200.8	05-Oct-22/O	< 0.00005		< 0.00005	
Thallium	mg/L	0.00005	EPA 200.8	07-Oct-22/O		< 0.00005		< 0.00005
Tin	mg/L	0.05	SM 3120	07-Oct-22/O	< 0.05		< 0.05	



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

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C.O.C.: ---

REPORT No. B22-31153

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 04-Oct-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 18-Oct-22

P.O. NUMBER: 460

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)
					Sample I.D.	B22-31153-1	B22-31153-2	B22-31153-3	B22-31153-4
					Date Collected	03-Oct-22	03-Oct-22	03-Oct-22	03-Oct-22
Tin	mg/L	0.05	SM 3120	06-Oct-22/O		< 0.05		< 0.05	
Titanium	mg/L	0.005	SM 3120	07-Oct-22/O	< 0.005		< 0.005		
Titanium	mg/L	0.005	SM 3120	06-Oct-22/O		< 0.005		< 0.005	
Uranium	mg/L	0.00005	EPA 200.8	05-Oct-22/O	< 0.00005		< 0.00005		
Uranium	mg/L	0.00005	EPA 200.8	07-Oct-22/O		< 0.00005		< 0.00005	
Vanadium	mg/L	0.005	SM 3120	07-Oct-22/O	< 0.005		< 0.005		
Vanadium	mg/L	0.005	SM 3120	06-Oct-22/O		< 0.005		< 0.005	
Zinc	mg/L	0.005	SM 3120	07-Oct-22/O	< 0.005		< 0.005		
Zinc	mg/L	0.005	SM 3120	06-Oct-22/O		< 0.005		< 0.005	
Total Organic Carbon	mg/L	0.2	EPA 415.2	05-Oct-22/O	1.5		1.7		
TIC	mg/L	0.5	EPA 415.1	05-Oct-22/O	11.25		9.02		
Fecal Coliform	cfu/100mL	1	MOE E3371	04-Oct-22/O	0		0		
Anion Sum	meq/L		Calc.	05-Oct-22/O	0.638		0.620		
Cation Sum	meq/L		Calc.	05-Oct-22/O	0.376		0.386		
% Difference	%		Calc.	05-Oct-22/O	25.8 <sup>1</sup>		23.2 <sup>1</sup>		
Ion Ratio	AS/CS		Calc.	05-Oct-22/O	1.70		1.60		
Sodium Adsorption Ratio	-		Calc.	05-Oct-22/O	0.0742		0.0699		
Conductivity (calc.)	µmho/cm		Calc.	05-Oct-22/O	52		54		
EC(calc.)/EC(actual)	-		Calc.	05-Oct-22/O	1.41		1.28		
TDS(calc.)/EC(actual)	-		Calc.	05-Oct-22/O	0.755		0.669		
Langelier Index(25°C)	S.I.		Calc.	05-Oct-22/O	-2.82		-2.99		

1. Outside of 15% Acceptance Criteria
2. Subcontracted to SGS Lakefield



Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from



C.O.C.: ---

REPORT No. B22-31298

**Report To:**

**City of Iqaluit**

PO Box 460,

Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 05-Oct-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 14-Oct-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-31298-1	B22-31298-2		
<b>Date Collected</b>	04-Oct-22	05-Oct-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
BOD(5 day)	mg/L	3	SM 5210B	07-Oct-22/K	184	86		
Total Suspended Solids	mg/L	3	SM2540D	11-Oct-22/K	440	140		
Conductivity @25°C	µmho/cm	1	SM 2510B	05-Oct-22/O	678	3980		
pH @25°C	pH Units		SM 4500H	05-Oct-22/O	7.78	7.71		
Nitrite (N)	mg/L	0.1	SM4110C	05-Oct-22/O	< 0.1	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	05-Oct-22/O	< 0.1	< 0.1		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	07-Oct-22/K	5.70	2.43		
o-Phosphate (P)	mg/L	0.002	PE4500-S	07-Oct-22/K	0.441	0.138		
Phosphorus-Total	mg/L	0.01	E3516.2	11-Oct-22/K	9.31	3.71		
Aluminum	mg/L	0.01	SM 3120	06-Oct-22/O	3.39	1.26		
Antimony	mg/L	0.0005	EPA 200.8	07-Oct-22/O	0.0006	< 0.0005		
Arsenic	mg/L	0.0005	EPA 200.8	07-Oct-22/O	0.0014	0.0005		
Barium	mg/L	0.001	SM 3120	06-Oct-22/O	0.038	0.016		
Beryllium	mg/L	0.002	SM 3120	06-Oct-22/O	< 0.002	< 0.002		
Cadmium	mg/L	0.000070	EPA 200.8	07-Oct-22/O	0.000377	0.000080		
Chromium	mg/L	0.002	SM 3120	06-Oct-22/O	0.008	0.003		
Cobalt	mg/L	0.005	SM 3120	06-Oct-22/O	< 0.005	< 0.005		
Copper	mg/L	0.002	SM 3120	06-Oct-22/O	0.344	0.125		
Iron	mg/L	0.005	SM 3120	06-Oct-22/O	6.88	2.65		
Lead	mg/L	0.0001	EPA 200.8	07-Oct-22/O	0.0156	0.0031		
Lithium	mg/L	0.01	SM 3120	06-Oct-22/O	< 0.01	< 0.01		
Manganese	mg/L	0.001	SM 3120	06-Oct-22/O	0.219	0.154		
Mercury	mg/L	0.00002	SM 3112 B	07-Oct-22/O	0.00005	< 0.00002		
Molybdenum	mg/L	0.01	SM 3120	06-Oct-22/O	< 0.01	< 0.01		
Nickel	mg/L	0.01	SM 3120	06-Oct-22/O	< 0.01	< 0.01		
Selenium	mg/L	0.005	EPA 200.8	07-Oct-22/O	< 0.005	< 0.005		



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

Tahir Yapici Ph.D

Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: ---

REPORT No. B22-31298

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 05-Oct-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 14-Oct-22

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-31298-1	B22-31298-2		
<b>Date Collected</b>	04-Oct-22	05-Oct-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Silver	mg/L	0.0001	EPA 200.8	07-Oct-22/O	0.0002	< 0.0001		
Strontium	mg/L	0.001	SM 3120	06-Oct-22/O	0.066	0.054		
Thallium	mg/L	0.0003	EPA 200.8	07-Oct-22/O	< 0.0003	< 0.0003		
Tin	mg/L	0.05	SM 3120	06-Oct-22/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	06-Oct-22/O	0.128	0.052		
Uranium	mg/L	0.0003	EPA 200.8	07-Oct-22/O	0.0006	0.0003		
Vanadium	mg/L	0.005	SM 3120	06-Oct-22/O	0.005	< 0.005		
Zinc	mg/L	0.005	SM 3120	06-Oct-22/O	0.482	0.076		
Total Coliform	cfu/100mL	1	MOE E3371	05-Oct-22/O	76000000	61000000		
Fecal Coliform	cfu/100mL	1	MOE E3371	05-Oct-22/O	8600000	5100000		

Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: ---

**REPORT No. B22-35266**

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 30-Nov-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 07-Dec-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- WTP Drinking	Test A- WTP Drinking(Total)
Sample I.D.	B22-35266-1	B22-35266-2	B22-35266-3	B22-35266-4
Date Collected	30-Nov-22	30-Nov-22	30-Nov-22	30-Nov-22

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- WTP Drinking	Test A- WTP Drinking(Total)
Hardness (as CaCO3)	mg/L	1	SM 3120	05-Dec-22/O	20		20	
Hardness (as CaCO3)	mg/L	1	SM 3120	05-Dec-22/O		20		21
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	01-Dec-22/O	37		17	
Bicarbonate(as CaCO3)	mg/L	5	SM 2320B	01-Dec-22/O	37		17	
Carbonate (as CaCO3)	mg/L	5	SM 2320B	01-Dec-22/O	< 5		< 5	
Hydroxide	mg/L	5	EPA 310.2	01-Dec-22/O	< 5		< 5	
Acidity (as CaCO3)	mg/L	5	Subcontract	06-Dec-22	5 <sup>2</sup>		< 5 <sup>2</sup>	
pH @25°C	pH Units		SM 4500H	01-Dec-22/O	6.51		6.38	
Conductivity @25°C	µmho/cm	1	SM 2510B	01-Dec-22/O	48		47	
TDS(ion sum calc.)	mg/L	1	Calc.	01-Dec-22/O	34		24	
Total Suspended Solids	mg/L	3	SM2540D	05-Dec-22/K	< 3		< 3	
Turbidity	NTU	0.1	SM 2130	02-Dec-22/O	0.3		0.5	
REDOX potential	mV		In-House	06-Dec-22/R	202		696	
Chloride	mg/L	0.5	SM4110C	30-Nov-22/O	1.1		2.6	
Sulphate	mg/L	1	SM4110C	30-Nov-22/O	3		3	
Aluminum	mg/L	0.01	SM 3120	05-Dec-22/O	< 0.01		< 0.01	
Aluminum	mg/L	0.01	SM 3120	05-Dec-22/O		< 0.01		< 0.01
Antimony	mg/L	0.0001	EPA 200.8	02-Dec-22/O	< 0.0001		< 0.0001	
Antimony	mg/L	0.0001	EPA 200.8	02-Dec-22/O		0.0001		< 0.0001
Arsenic	mg/L	0.0001	EPA 200.8	02-Dec-22/O	< 0.0001		< 0.0001	
Arsenic	mg/L	0.0001	EPA 200.8	02-Dec-22/O		< 0.0001		< 0.0001
Barium	mg/L	0.001	SM 3120	05-Dec-22/O	0.001		0.002	
Barium	mg/L	0.001	SM 3120	05-Dec-22/O		0.001		0.002
Beryllium	mg/L	0.002	SM 3120	05-Dec-22/O	< 0.002		< 0.002	
Beryllium	mg/L	0.002	SM 3120	05-Dec-22/O		< 0.002		< 0.002
Cadmium	mg/L	0.000010	EPA 200.8	02-Dec-22/O	< 0.000010		< 0.000010	
Cadmium	mg/L	0.000015	EPA 200.8	02-Dec-22/O		< 0.000015		< 0.000015



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: ---

REPORT No. B22-35266

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 30-Nov-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 07-Dec-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- WTP Drinking	Test A- WTP Drinking(Total)
					Sample I.D.	B22-35266-1	B22-35266-2	B22-35266-3	B22-35266-4
					Date Collected	30-Nov-22	30-Nov-22	30-Nov-22	30-Nov-22
Chromium	mg/L	0.002	SM 3120	05-Dec-22/O		< 0.002		< 0.002	
Chromium	mg/L	0.002	SM 3120	05-Dec-22/O			< 0.002		< 0.002
Cobalt	mg/L	0.005	SM 3120	05-Dec-22/O		< 0.005		< 0.005	
Cobalt	mg/L	0.005	SM 3120	05-Dec-22/O			< 0.005		< 0.005
Copper	mg/L	0.002	SM 3120	05-Dec-22/O		< 0.002		0.100	
Copper	mg/L	0.002	SM 3120	05-Dec-22/O			< 0.002		0.094
Iron	mg/L	0.005	SM 3120	05-Dec-22/O		0.014		0.013	
Iron	mg/L	0.005	SM 3120	05-Dec-22/O			0.015		0.020
Lead	mg/L	0.00002	EPA 200.8	02-Dec-22/O		< 0.00002		0.00042	
Lead	mg/L	0.00002	EPA 200.8	02-Dec-22/O			0.00002		0.00047
Lithium	mg/L	0.01	SM 3120	05-Dec-22/O		0.02		0.01	
Lithium	mg/L	0.01	SM 3120	05-Dec-22/O			< 0.01		< 0.01
Manganese	mg/L	0.001	SM 3120	05-Dec-22/O		0.004		0.004	
Manganese	mg/L	0.001	SM 3120	05-Dec-22/O			0.003		0.004
Mercury	mg/L	0.00002	SM 3112 B	01-Dec-22/O		< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	05-Dec-22/O		< 0.01		< 0.01	
Molybdenum	mg/L	0.01	SM 3120	05-Dec-22/O			< 0.01		< 0.01
Nickel	mg/L	0.01	SM 3120	05-Dec-22/O		< 0.01		< 0.01	
Nickel	mg/L	0.01	SM 3120	05-Dec-22/O			< 0.01		< 0.01
Selenium	mg/L	0.001	EPA 200.8	02-Dec-22/O		< 0.001		< 0.001	
Selenium	mg/L	0.001	EPA 200.8	02-Dec-22/O			< 0.001		< 0.001
Silver	mg/L	0.0001	EPA 200.8	02-Dec-22/O		< 0.0001		< 0.0001	
Silver	mg/L	0.0001	EPA 200.8	02-Dec-22/O			< 0.0001		< 0.0001
Strontium	mg/L	0.001	SM 3120	05-Dec-22/O		0.013		0.013	
Strontium	mg/L	0.001	SM 3120	05-Dec-22/O			0.013		0.013
Thallium	mg/L	0.00005	EPA 200.8	02-Dec-22/O		< 0.00005		< 0.00005	
Thallium	mg/L	0.00005	EPA 200.8	02-Dec-22/O			< 0.00005		< 0.00005



R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: ---

REPORT No. B22-35266

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 30-Nov-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 07-Dec-22

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- WTP Drinking	Test A- WTP Drinking(Total)
					Sample I.D.	B22-35266-1	B22-35266-2	B22-35266-3	B22-35266-4
					Date Collected	30-Nov-22	30-Nov-22	30-Nov-22	30-Nov-22
Tin	mg/L	0.05	SM 3120	05-Dec-22/O		< 0.05		< 0.05	
Tin	mg/L	0.05	SM 3120	05-Dec-22/O			< 0.05		< 0.05
Titanium	mg/L	0.005	SM 3120	05-Dec-22/O		< 0.005		< 0.005	
Titanium	mg/L	0.005	SM 3120	05-Dec-22/O			< 0.005		< 0.005
Uranium	mg/L	0.00005	EPA 200.8	02-Dec-22/O		< 0.00005		< 0.00005	
Uranium	mg/L	0.00005	EPA 200.8	02-Dec-22/O			< 0.00005		< 0.00005
Vanadium	mg/L	0.005	SM 3120	05-Dec-22/O		< 0.005		< 0.005	
Vanadium	mg/L	0.005	SM 3120	05-Dec-22/O			< 0.005		< 0.005
Zinc	mg/L	0.005	SM 3120	05-Dec-22/O		< 0.005		< 0.005	
Zinc	mg/L	0.005	SM 3120	05-Dec-22/O			< 0.005		< 0.005
Total Organic Carbon	mg/L	0.2	EPA 415.2	30-Nov-22/O		1.2		1.3	
TIC	mg/L	0.5	EPA 415.1	30-Nov-22/O		15.17		7.65	
Fecal Coliform	cfu/100mL	1	MOE E3371	30-Nov-22/O		0		0	
Anion Sum	meq/L		Calc.	01-Dec-22/O		0.823		0.480	
Cation Sum	meq/L		Calc.	01-Dec-22/O		0.440		0.441	
% Difference	%		Calc.	01-Dec-22/O		30.3 <sup>1</sup>		4.18	
Ion Ratio	AS/CS		Calc.	01-Dec-22/O		1.87		1.09	
Sodium Adsorption Ratio	-		Calc.	01-Dec-22/O		0.0747		0.0800	
Conductivity (calc.)	µmho/cm		Calc.	01-Dec-22/O		62		49	
EC(calc.)/EC(actual)	-		Calc.	01-Dec-22/O		1.30		1.06	
TDS(calc.)/EC(actual)	-		Calc.	01-Dec-22/O		0.718		0.524	
Langelier Index(25°C)	S.I.		Calc.	01-Dec-22/O		-2.46		-2.91	

1. Outside of 15% Acceptance Criteria
2. Subcontracted to Testmark Labs



Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

C.O.C.: G 110359

REPORT No. B22-35431

**Report To:**

**City of Iqaluit**

PO Box 460,

Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 02-Dec-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 13-Dec-22

P.O. NUMBER: 460

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-35431-1	B22-35431-2		
<b>Date Collected</b>	01-Dec-22	01-Dec-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
BOD(5 day)	mg/L	3	SM 5210B	07-Dec-22/K	121	83		
Total Suspended Solids	mg/L	3	SM2540D	07-Dec-22/K	205	104		
Conductivity @25°C	µmho/cm	1	SM 2510B	02-Dec-22/O	425	480		
pH @25°C	pH Units		SM 4500H	02-Dec-22/O	7.75	7.75		
Nitrite (N)	mg/L	0.1	SM4110C	05-Dec-22/O	< 0.1	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	05-Dec-22/O	< 0.1	< 0.1		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	06-Dec-22/K	31.3	37.8		
o-Phosphate (P)	mg/L	0.002	PE4500-S	06-Dec-22/K	4.15	3.85		
Phosphorus-Total	mg/L	0.01	E3516.2	07-Dec-22/K	6.08	5.65		
Aluminum	mg/L	0.01	SM 3120	08-Dec-22/O	0.28	0.24		
Antimony	mg/L	0.0005	EPA 200.8	07-Dec-22/O	0.0007	0.0006		
Arsenic	mg/L	0.0005	EPA 200.8	07-Dec-22/O	< 0.0005	< 0.0005		
Barium	mg/L	0.001	SM 3120	08-Dec-22/O	0.010	0.007		
Beryllium	mg/L	0.002	SM 3120	08-Dec-22/O	< 0.002	< 0.002		
Cadmium	mg/L	0.00007	EPA 200.8	07-Dec-22/O	0.000134	0.000092		
Chromium	mg/L	0.002	SM 3120	08-Dec-22/O	< 0.002	< 0.002		
Cobalt	mg/L	0.005	SM 3120	08-Dec-22/O	< 0.005	< 0.005		
Copper	mg/L	0.002	SM 3120	08-Dec-22/O	0.313	0.241		
Iron	mg/L	0.005	SM 3120	08-Dec-22/O	0.873	0.419		
Lead	mg/L	0.0001	EPA 200.8	07-Dec-22/O	0.0041	0.0021		
Lithium	mg/L	0.01	SM 3120	08-Dec-22/O	< 0.01	< 0.01		
Manganese	mg/L	0.001	SM 3120	08-Dec-22/O	0.081	0.078		
Mercury	mg/L	0.00002	SM 3112 B	08-Dec-22/O	< 0.00002	< 0.00002		
Molybdenum	mg/L	0.01	SM 3120	08-Dec-22/O	< 0.01	< 0.01		
Nickel	mg/L	0.01	SM 3120	08-Dec-22/O	< 0.01	< 0.01		
Selenium	mg/L	0.005	EPA 200.8	07-Dec-22/O	< 0.005	< 0.005		



Tahir Yapici Ph.D

Lab Manager - Ottawa District

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston, W-Windsor, O-Ottawa, R-Richmond Hill, B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from



**C.O.C.: G 110359**

**REPORT No. B22-35431**

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Emmanuel Kayode

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 02-Dec-22

JOB/PROJECT NO.: Test F

DATE REPORTED: 13-Dec-22

P.O. NUMBER: 460

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

<b>Client I.D.</b>	WWTP Influent	WWTP Effluent		
<b>Sample I.D.</b>	B22-35431-1	B22-35431-2		
<b>Date Collected</b>	01-Dec-22	01-Dec-22		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Silver	mg/L	0.0001	EPA 200.8	07-Dec-22/O	< 0.0001	< 0.0001		
Strontium	mg/L	0.001	SM 3120	08-Dec-22/O	0.030	0.027		
Thallium	mg/L	0.0003	EPA 200.8	07-Dec-22/O	< 0.0003	< 0.0003		
Tin	mg/L	0.05	SM 3120	08-Dec-22/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	08-Dec-22/O	0.011	< 0.005		
Uranium	mg/L	0.0003	EPA 200.8	07-Dec-22/O	< 0.0003	< 0.0003		
Vanadium	mg/L	0.005	SM 3120	08-Dec-22/O	< 0.005	< 0.005		
Zinc	mg/L	0.005	SM 3120	08-Dec-22/O	0.145	0.094		
Total Coliform	cfu/100mL	1	MOE E3371	02-Dec-22/O	110000000	50000000		
Fecal Coliform	cfu/100mL	1	MOE E3371	02-Dec-22/O	7000000	3900000		

Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an \*

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from

**C.O.C.: G 36009**

**REPORT No. B22-36009**

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 13-Dec-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 03-Jan-23

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)
					Sample I.D.	B22-36009-1	B22-36009-2	B22-36009-3	B22-36009-4
					Date Collected	12-Dec-22	12-Dec-22	12-Dec-22	12-Dec-22
Hardness (as CaCO3)	mg/L	1	SM 3120	21-Dec-22/O	18		21		
Hardness (as CaCO3)	mg/L	1	SM 3120	15-Dec-22/O		23		22	
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	22-Dec-22/O	18		15		
Bicarbonate(as CaCO3)	mg/L	5	SM 2320B	22-Dec-22/O	18		15		
Carbonate (as CaCO3)	mg/L	5	SM 2320B	22-Dec-22/O	< 5		< 5		
Hydroxide	mg/L	5	EPA 310.2	13-Dec-22/O	< 5		< 5		
Acidity (as CaCO3)	mg/L	5	Subcontract	16-Dec-22	< 5	<sup>2</sup>	< 5	<sup>2</sup>	
pH @25°C	pH Units		SM 4500H	22-Dec-22/O	6.76		6.46		
Conductivity @25°C	µmho/cm	1	SM 2510B	22-Dec-22/O	46		48		
TDS(ion sum calc.)	mg/L	1	Calc.	14-Dec-22/O	28		24		
Total Suspended Solids	mg/L	3	SM2540D	15-Dec-22/K	< 3		< 3		
Turbidity	NTU	0.1	SM 2130	15-Dec-22/O	0.3		0.4		
REDOX potential	mV		In-House	21-Dec-22/R	354		622		
Chloride	mg/L	0.5	SM4110C	22-Dec-22/O	1.9		3.2		
Sulphate	mg/L	1	SM4110C	22-Dec-22/O	4		4		
Aluminum	mg/L	0.01	SM 3120	21-Dec-22/O	< 0.01		< 0.01		
Aluminum	mg/L	0.01	SM 3120	15-Dec-22/O		< 0.01		< 0.01	
Antimony	mg/L	0.0001	EPA 200.8	16-Dec-22/O	< 0.0001		< 0.0001		
Antimony	mg/L	0.0001	EPA 200.8	15-Dec-22/O		< 0.0001		< 0.0001	
Arsenic	mg/L	0.0001	EPA 200.8	16-Dec-22/O	< 0.0001		< 0.0001		
Arsenic	mg/L	0.0001	EPA 200.8	15-Dec-22/O		< 0.0001		< 0.0001	
Barium	mg/L	0.001	SM 3120	21-Dec-22/O	0.001		0.002		
Barium	mg/L	0.001	SM 3120	15-Dec-22/O		0.002		0.002	
Beryllium	mg/L	0.002	SM 3120	21-Dec-22/O	< 0.002		< 0.002		
Beryllium	mg/L	0.002	SM 3120	15-Dec-22/O		< 0.002		< 0.002	
Cadmium	mg/L	0.000010	EPA 200.8	16-Dec-22/O	< 0.000010		< 0.000010		
Cadmium	mg/L	0.000015	EPA 200.8	15-Dec-22/O		< 0.000015		< 0.000015	



Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

R.L. = Reporting Limit

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Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill,B-Barrie

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**C.O.C.: G 36009**

**REPORT No. B22-36009**

**Report To:**

**City of Iqaluit**

PO Box 460,  
 Iqaluit NU X0A 0H0

**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 13-Dec-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 03-Jan-23

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

<b>Client I.D.</b>	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)
<b>Sample I.D.</b>	B22-36009-1	B22-36009-2	B22-36009-3	B22-36009-4
<b>Date Collected</b>	12-Dec-22	12-Dec-22	12-Dec-22	12-Dec-22

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Chromium	mg/L	0.002	SM 3120	21-Dec-22/O	< 0.002		< 0.002	
Chromium	mg/L	0.002	SM 3120	15-Dec-22/O		< 0.002		< 0.002
Cobalt	mg/L	0.005	SM 3120	21-Dec-22/O	< 0.005		< 0.005	
Cobalt	mg/L	0.005	SM 3120	15-Dec-22/O		< 0.005		< 0.005
Copper	mg/L	0.002	SM 3120	21-Dec-22/O	< 0.002		0.107	
Copper	mg/L	0.002	SM 3120	15-Dec-22/O		< 0.002		< 0.002
Iron	mg/L	0.005	SM 3120	21-Dec-22/O	< 0.005		0.013	
Iron	mg/L	0.005	SM 3120	15-Dec-22/O		0.015		0.019
Lead	mg/L	0.00002	EPA 200.8	16-Dec-22/O	< 0.00002		0.00065	
Lead	mg/L	0.00002	EPA 200.8	15-Dec-22/O		< 0.00002		0.00065
Lithium	mg/L	0.01	SM 3120	21-Dec-22/O	0.04		0.04	
Lithium	mg/L	0.01	SM 3120	15-Dec-22/O		< 0.01		< 0.01
Manganese	mg/L	0.001	SM 3120	21-Dec-22/O	< 0.001		0.005	
Manganese	mg/L	0.001	SM 3120	15-Dec-22/O		0.004		0.006
Mercury	mg/L	0.00002	SM 3112 B	15-Dec-22/O	< 0.00002	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	21-Dec-22/O	< 0.01		< 0.01	
Molybdenum	mg/L	0.01	SM 3120	15-Dec-22/O		< 0.01		< 0.01
Nickel	mg/L	0.01	SM 3120	21-Dec-22/O	< 0.01		< 0.01	
Nickel	mg/L	0.01	SM 3120	15-Dec-22/O		< 0.01		< 0.01
Selenium	mg/L	0.001	EPA 200.8	16-Dec-22/O	< 0.001		< 0.001	
Selenium	mg/L	0.001	EPA 200.8	15-Dec-22/O		< 0.001		< 0.001
Silver	mg/L	0.0001	EPA 200.8	16-Dec-22/O	< 0.0001		< 0.0001	
Silver	mg/L	0.0001	EPA 200.8	15-Dec-22/O		< 0.0001		< 0.0001
Strontium	mg/L	0.001	SM 3120	21-Dec-22/O	0.013		0.015	
Strontium	mg/L	0.001	SM 3120	15-Dec-22/O		0.014		0.014
Thallium	mg/L	0.00005	EPA 200.8	16-Dec-22/O	< 0.00005		< 0.00005	
Thallium	mg/L	0.00005	EPA 200.8	15-Dec-22/O		< 0.00005		< 0.00005



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Tahir Yapici Ph.D  
 Lab Manager - Ottawa District

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**Attention:** Peter Martel

**Caduceon Environmental Laboratories**

2378 Holly Lane  
 Ottawa Ontario K1V 7P1  
 Tel: 613-526-0123  
 Fax: 613-526-1244

DATE RECEIVED: 13-Dec-22

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 03-Jan-23

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed	Client I.D.	Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)
					Sample I.D.	B22-36009-1	B22-36009-2	B22-36009-3	B22-36009-4
					Date Collected	12-Dec-22	12-Dec-22	12-Dec-22	12-Dec-22
Tin	mg/L	0.05	SM 3120	21-Dec-22/O		< 0.05		< 0.05	
Tin	mg/L	0.05	SM 3120	15-Dec-22/O			< 0.05		< 0.05
Titanium	mg/L	0.005	SM 3120	21-Dec-22/O		< 0.005		< 0.005	
Titanium	mg/L	0.005	SM 3120	15-Dec-22/O			< 0.005		< 0.005
Uranium	mg/L	0.00005	EPA 200.8	16-Dec-22/O		< 0.00005		< 0.00005	
Uranium	mg/L	0.00005	EPA 200.8	15-Dec-22/O			< 0.00005		< 0.00005
Vanadium	mg/L	0.005	SM 3120	21-Dec-22/O		< 0.005		< 0.005	
Vanadium	mg/L	0.005	SM 3120	15-Dec-22/O			< 0.005		< 0.005
Zinc	mg/L	0.005	SM 3120	21-Dec-22/O		< 0.005		< 0.005	
Zinc	mg/L	0.005	SM 3120	15-Dec-22/O			< 0.005		< 0.005
Total Organic Carbon	mg/L	0.2	EPA 415.2	14-Dec-22/O		1.4		1.6	
TIC	mg/L	0.5	EPA 415.1	14-Dec-22/O		31.0		136.8	
Fecal Coliform	cfu/100mL	1	MOE E3371	13-Dec-22/O		0		0	
Anion Sum	meq/L		Calc.	14-Dec-22/O		0.564		0.466	
Cation Sum	meq/L		Calc.	14-Dec-22/O		0.402		0.460	
% Difference	%		Calc.	14-Dec-22/O		16.8	1	0.744	
Ion Ratio	AS/CS		Calc.	14-Dec-22/O		1.40		1.01	
Sodium Adsorption Ratio	-		Calc.	14-Dec-22/O		0.0786		0.0789	
Conductivity (calc.)	µmho/cm		Calc.	14-Dec-22/O		52		51	
EC(calc.)/EC(actual)	-		Calc.	14-Dec-22/O		1.13		1.06	
TDS(calc.)/EC(actual)	-		Calc.	14-Dec-22/O		0.608		0.514	
Langelier Index(25°C)	S.I.		Calc.	14-Dec-22/O		-2.55		-2.87	

1. outside of 10% Acceptance Criteria
2. Subcontracted to Testmark Labs



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 Lab Manager - Ottawa District

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