

C.O.C.: ---

REPORT No. B23-01532

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: 31-Jan-23

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 09-Feb-23

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.		Test A- Raw WTP	Test A- Raw WTP (Total)	Test A- Potable WTP	Test A- Potable (Total)
			Sample I.D.		B23-01532-1	B23-01532-2	B23-01532-3	B23-01532-4
			Date Collected		30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	02-Feb-23/O	22		22	
Hardness (as CaCO ₃)	mg/L	1	SM 3120	02-Feb-23/O		23		23
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	31-Jan-23/O	17		16	
Bicarbonate(as CaCO ₃)	mg/L	5	SM 2320B	31-Jan-23/O	17		16	
Carbonate (as CaCO ₃)	mg/L	5	SM 2320B	31-Jan-23/O	< 5		< 5	
Hydroxide	mg/L	5	EPA 310.2	31-Jan-23/O	< 5		< 5	
Acidity (as CaCO ₃)	mg/L	5	Subcontract	03-Feb-23	< 5	¹	6	
pH @25°C	pH Units		SM 4500H	31-Jan-23/O	7.07		7.01	
Conductivity @25°C	µmho/cm	1	SM 2510B	31-Jan-23/O	48		50	
TDS(ion sum calc.)	mg/L	1	Calc.	01-Feb-23/O	25		24	
Total Suspended Solids	mg/L	3	SM2540D	06-Feb-23/K	< 3		< 3	
Turbidity	NTU	0.1	SM 2130	02-Feb-23/O	1.3		0.3	
REDOX potential	mV		In-House	08-Feb-23/R	440		529	
Chloride	mg/L	0.5	SM4110C	01-Feb-23/O	1.3		2.6	
Sulphate	mg/L	1	SM4110C	01-Feb-23/O	3		3	
Aluminum	mg/L	0.01	SM 3120	02-Feb-23/O	< 0.01		< 0.01	
Aluminum	mg/L	0.01	SM 3120	02-Feb-23/O		< 0.01		< 0.01
Antimony	mg/L	0.0001	EPA 200.8	03-Feb-23/O	< 0.0001		< 0.0001	
Antimony	mg/L	0.0001	EPA 200.8	07-Feb-23/O		< 0.0001		< 0.0001
Arsenic	mg/L	0.0001	EPA 200.8	03-Feb-23/O	< 0.0001		< 0.0001	
Arsenic	mg/L	0.0001	EPA 200.8	07-Feb-23/O		< 0.0001		< 0.0001
Barium	mg/L	0.001	SM 3120	02-Feb-23/O	0.002		0.001	
Barium	mg/L	0.001	SM 3120	02-Feb-23/O		0.002		0.002
Beryllium	mg/L	0.002	SM 3120	02-Feb-23/O	< 0.002		< 0.002	
Beryllium	mg/L	0.002	SM 3120	02-Feb-23/O		< 0.002		< 0.002
Cadmium	mg/L	0.000010	EPA 200.8	03-Feb-23/O	< 0.000010		< 0.000010	



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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WATERWORKS NO.

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			Sample I.D.	B23-01532-1	B23-01532-2	B23-01532-3	B23-01532-4
			Date Collected	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Cadmium	mg/L	0.000015	EPA 200.8	07-Feb-23/O	< 0.000015		< 0.000015
Chromium	mg/L	0.002	SM 3120	02-Feb-23/O	< 0.002	< 0.002	
Chromium	mg/L	0.002	SM 3120	02-Feb-23/O	< 0.002		< 0.002
Cobalt	mg/L	0.005	SM 3120	02-Feb-23/O	< 0.005	< 0.005	
Cobalt	mg/L	0.005	SM 3120	02-Feb-23/O	< 0.005		< 0.005
Copper	mg/L	0.002	SM 3120	02-Feb-23/O	0.183	0.003	
Copper	mg/L	0.002	SM 3120	02-Feb-23/O	< 0.002		0.165
Iron	mg/L	0.005	SM 3120	02-Feb-23/O	0.014	0.012	
Iron	mg/L	0.005	SM 3120	02-Feb-23/O	0.020		0.044
Lead	mg/L	0.00002	EPA 200.8	03-Feb-23/O	0.00004	0.00047	
Lead	mg/L	0.00002	EPA 200.8	07-Feb-23/O	< 0.00002		0.00053
Lithium	mg/L	0.01	SM 3120	02-Feb-23/O	< 0.01	< 0.01	
Lithium	mg/L	0.01	SM 3120	02-Feb-23/O	< 0.01		0.01
Manganese	mg/L	0.001	SM 3120	02-Feb-23/O	0.005	0.005	
Manganese	mg/L	0.001	SM 3120	02-Feb-23/O	0.006		0.006
Mercury	mg/L	0.00002	SM 3112 B	02-Feb-23/O	< 0.00002	< 0.00002	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	02-Feb-23/O	< 0.01	< 0.01	
Molybdenum	mg/L	0.01	SM 3120	02-Feb-23/O	< 0.01		< 0.01
Nickel	mg/L	0.01	SM 3120	02-Feb-23/O	< 0.01	< 0.01	
Nickel	mg/L	0.01	SM 3120	02-Feb-23/O	< 0.01		< 0.01
Selenium	mg/L	0.001	EPA 200.8	03-Feb-23/O	< 0.001	< 0.001	
Selenium	mg/L	0.001	EPA 200.8	07-Feb-23/O	< 0.001		< 0.001
Silver	mg/L	0.0001	EPA 200.8	03-Feb-23/O	< 0.0001	< 0.0001	
Silver	mg/L	0.0001	EPA 200.8	07-Feb-23/O	< 0.0001		< 0.0001
Strontium	mg/L	0.001	SM 3120	02-Feb-23/O	0.015	0.015	
Strontium	mg/L	0.001	SM 3120	02-Feb-23/O	0.016		0.015



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			Date Collected	30-Jan-23	30-Jan-23	30-Jan-23	30-Jan-23
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Thallium	mg/L	0.00005	EPA 200.8	03-Feb-23/O	< 0.00005		< 0.00005
Thallium	mg/L	0.00005	EPA 200.8	07-Feb-23/O		< 0.00005	< 0.00005
Tin	mg/L	0.05	SM 3120	02-Feb-23/O	< 0.05		< 0.05
Tin	mg/L	0.05	SM 3120	02-Feb-23/O		< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	02-Feb-23/O	< 0.005		< 0.005
Titanium	mg/L	0.005	SM 3120	02-Feb-23/O		< 0.005	< 0.005
Uranium	mg/L	0.00005	EPA 200.8	03-Feb-23/O	< 0.00005		< 0.00005
Uranium	mg/L	0.00005	EPA 200.8	07-Feb-23/O		< 0.00005	< 0.00005
Vanadium	mg/L	0.005	SM 3120	02-Feb-23/O	< 0.005		< 0.005
Vanadium	mg/L	0.005	SM 3120	02-Feb-23/O		< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	02-Feb-23/O	< 0.005		< 0.005
Zinc	mg/L	0.005	SM 3120	02-Feb-23/O		0.006	0.008
Total Organic Carbon	mg/L	0.2	EPA 415.2	01-Feb-23/O	2.0		1.9
TIC	mg/L	0.5	EPA 415.1	01-Feb-23/O	4.8		4.6
Fecal Coliform	cfu/100mL	1	MOE E3371	31-Jan-23/O	0		0
Anion Sum	meq/L		Calc.	01-Feb-23/O	0.460		0.451
Cation Sum	meq/L		Calc.	01-Feb-23/O	0.476		0.479
% Difference	%		Calc.	01-Feb-23/O	1.69		2.94
Ion Ratio	AS/CS		Calc.	01-Feb-23/O	0.967		0.943
Sodium Adsorption Ratio	-		Calc.	01-Feb-23/O	0.0836		0.0792
Conductivity (calc.)	µmho/cm		Calc.	01-Feb-23/O	50		50
EC(calc.)/EC(actual)	-		Calc.	01-Feb-23/O	1.03		1.00
TDS(calc.)/EC(actual)	-		Calc.	01-Feb-23/O	0.511		0.480
Langelier Index(25°C)	S.I.		Calc.	01-Feb-23/O	-2.19		-2.28

1 Subcontracted to Testmark Labs



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