

C.O.C.: DW76231

REPORT No. B16-27083

Report To:

Hamlet of Pangnirtung

P.O. Box 253,

Pangnirtung Nunavut X0A 0R0 Canada

Attention: Jimmy Kiinainaq

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 09-Sep-16

JOB/PROJECT NO.:

DATE REPORTED: 13-Sep-16

P.O. NUMBER:

SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.	Raw Water-	Raw Water- Without Strainer	Raw water Trainor+20mi cron filter	Raw water Trainor+20/5 micron Filter
			Sample I.D.	B16-27083-1	B16-27083-2	B16-27083-3	B16-27083-4
			Date Collected	06-Sep-16	06-Sep-16	06-Sep-16	06-Sep-16
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Turbidity	NTU	0.1	SM 2130	13-Sep-16/O	1.6	1.2	1.8
Colour	TCU	2	SM 2120C	13-Sep-16/O	2	4	< 2
Hardness (as CaCO ₃)	mg/L	1	SM 3120	12-Sep-16/O	3	2	2
Aluminum	mg/L	0.01	SM 3120	12-Sep-16/O	0.04	0.03	0.03
Barium	mg/L	0.001	SM 3120	12-Sep-16/O	< 0.001	< 0.001	< 0.001
Beryllium	mg/L	0.002	SM 3120	12-Sep-16/O	< 0.002	< 0.002	< 0.002
Bismuth	mg/L	0.02	SM 3120	12-Sep-16/O	< 0.02	< 0.02	< 0.02
Boron	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005	< 0.005
Calcium	mg/L	0.02	SM 3120	12-Sep-16/O	0.68	0.57	0.55
Chromium	mg/L	0.002	SM 3120	12-Sep-16/O	< 0.002	< 0.002	< 0.002
Cobalt	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005	< 0.005
Copper	mg/L	0.002	SM 3120	12-Sep-16/O	0.032	< 0.002	0.004
Iron	mg/L	0.005	SM 3120	12-Sep-16/O	0.046	0.013	0.049
Lithium	mg/L	0.01	SM 3120	12-Sep-16/O	< 0.01	< 0.01	< 0.01
Magnesium	mg/L	0.01	SM 3120	12-Sep-16/O	0.22	0.22	0.21
Manganese	mg/L	0.001	SM 3120	12-Sep-16/O	0.002	0.001	0.002
Molybdenum	mg/L	0.01	SM 3120	12-Sep-16/O	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	12-Sep-16/O	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	12-Sep-16/O	< 0.1	< 0.1	< 0.1
Silica	mg/L	0.02	SM 3120	12-Sep-16/O	2.78	2.75	2.76
Silicon	mg/L	0.01	SM 3120	12-Sep-16/O	1.30	1.29	1.29
Sodium	mg/L	0.2	SM 3120	12-Sep-16/O	0.8	0.8	0.8
Strontium	mg/L	0.001	SM 3120	12-Sep-16/O	0.003	0.003	0.003
Tin	mg/L	0.05	SM 3120	12-Sep-16/O	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005	< 0.005
Vanadium	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 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

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Gord Murphy
Lab Supervisor

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WATERWORKS NO.

			Client I.D.	Raw Water-	Raw Water- Without Strainer	Raw water Trainor+20mi cron filter	Raw water Trainor+20/5 micron Filter
			Sample I.D.	B16-27083-1	B16-27083-2	B16-27083-3	B16-27083-4
			Date Collected	06-Sep-16	06-Sep-16	06-Sep-16	06-Sep-16
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Yttrium	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	12-Sep-16/O	0.088	< 0.005	< 0.005
Zirconium	mg/L	0.003	SM 3120	12-Sep-16/O	< 0.003	< 0.003	< 0.003

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SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.		Raw Water- 20/5/1 Micron Filter	Raw Water- Trainor+20/5/ 1 micron Filters	Treated Water-with chlorine+20/5 /1 filter	Treated Water-with chlorine+20/5/ 1 filter
			Sample I.D.		B16-27083-5	B16-27083-6	B16-27083-7	B16-27083-8
			Date Collected		06-Sep-16	06-Sep-16	06-Sep-16	06-Sep-16
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Turbidity	NTU	0.1	SM 2130	13-Sep-16/O	0.5	0.5	0.8	0.8
Colour	TCU	2	SM 2120C	13-Sep-16/O	< 2	2	< 2	< 2
Hardness (as CaCO ₃)	mg/L	1	SM 3120	12-Sep-16/O	2	2	3	2
Aluminum	mg/L	0.01	SM 3120	12-Sep-16/O	0.02	0.02	0.03	0.03
Barium	mg/L	0.001	SM 3120	12-Sep-16/O	0.012	0.019	0.030	0.024
Beryllium	mg/L	0.002	SM 3120	12-Sep-16/O	< 0.002	< 0.002	< 0.002	< 0.002
Bismuth	mg/L	0.02	SM 3120	12-Sep-16/O	< 0.02	< 0.02	< 0.02	< 0.02
Boron	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	0.005	0.029	0.025
Calcium	mg/L	0.02	SM 3120	12-Sep-16/O	0.53	0.61	0.64	0.62
Chromium	mg/L	0.002	SM 3120	12-Sep-16/O	< 0.002	< 0.002	< 0.002	< 0.002
Cobalt	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005	< 0.005	< 0.005
Copper	mg/L	0.002	SM 3120	12-Sep-16/O	0.014	< 0.002	< 0.002	< 0.002
Iron	mg/L	0.005	SM 3120	12-Sep-16/O	0.014	< 0.005	0.016	0.015
Lithium	mg/L	0.01	SM 3120	12-Sep-16/O	< 0.01	< 0.01	< 0.01	< 0.01
Magnesium	mg/L	0.01	SM 3120	12-Sep-16/O	0.21	0.21	0.22	0.22
Manganese	mg/L	0.001	SM 3120	12-Sep-16/O	< 0.001	< 0.001	0.001	0.001
Molybdenum	mg/L	0.01	SM 3120	12-Sep-16/O	< 0.01	< 0.01	< 0.01	< 0.01
Nickel	mg/L	0.01	SM 3120	12-Sep-16/O	< 0.01	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	12-Sep-16/O	< 0.1	< 0.1	< 0.1	< 0.1
Silica	mg/L	0.02	SM 3120	12-Sep-16/O	2.67	2.69	2.81	2.80
Silicon	mg/L	0.01	SM 3120	12-Sep-16/O	1.25	1.26	1.31	1.31
Sodium	mg/L	0.2	SM 3120	12-Sep-16/O	0.8	0.9	1.6	1.5
Strontium	mg/L	0.001	SM 3120	12-Sep-16/O	0.003	0.003	0.003	0.003
Tin	mg/L	0.05	SM 3120	12-Sep-16/O	< 0.05	< 0.05	< 0.05	< 0.05
Titanium	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005	< 0.005	< 0.005

R.L. = Reporting Limit

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WATERWORKS NO.

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			Sample I.D.	B16-27083-5	B16-27083-6	B16-27083-7	B16-27083-8
			Date Collected	06-Sep-16	06-Sep-16	06-Sep-16	06-Sep-16
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Vanadium	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005	< 0.005
Yttrium	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005	< 0.005
Zinc	mg/L	0.005	SM 3120	12-Sep-16/O	0.018	0.011	0.019
Zirconium	mg/L	0.003	SM 3120	12-Sep-16/O	< 0.003	< 0.003	< 0.003

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SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

Client I.D.	Treated Water-with chlorine+20/5 /1 filter	Treated Water-with chlorine+20/5 /1 filter		
Sample I.D.	B16-27083-9	B16-27083-10		
Date Collected	06-Sep-16	06-Sep-16		

Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Turbidity	NTU	0.1	SM 2130	13-Sep-16/O	0.7	0.8		
Colour	TCU	2	SM 2120C	13-Sep-16/O	< 2	< 2		
Hardness (as CaCO3)	mg/L	1	SM 3120	12-Sep-16/O	2	3		
Aluminum	mg/L	0.01	SM 3120	12-Sep-16/O	0.03	0.03		
Barium	mg/L	0.001	SM 3120	12-Sep-16/O	0.027	0.034		
Beryllium	mg/L	0.002	SM 3120	12-Sep-16/O	< 0.002	< 0.002		
Bismuth	mg/L	0.02	SM 3120	12-Sep-16/O	< 0.02	< 0.02		
Boron	mg/L	0.005	SM 3120	12-Sep-16/O	0.027	0.028		
Calcium	mg/L	0.02	SM 3120	12-Sep-16/O	0.63	0.73		
Chromium	mg/L	0.002	SM 3120	12-Sep-16/O	< 0.002	< 0.002		
Cobalt	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005		
Copper	mg/L	0.002	SM 3120	12-Sep-16/O	< 0.002	< 0.002		
Iron	mg/L	0.005	SM 3120	12-Sep-16/O	0.014	0.009		
Lithium	mg/L	0.01	SM 3120	12-Sep-16/O	< 0.01	< 0.01		
Magnesium	mg/L	0.01	SM 3120	12-Sep-16/O	0.22	0.25		
Manganese	mg/L	0.001	SM 3120	12-Sep-16/O	< 0.001	0.002		
Molybdenum	mg/L	0.01	SM 3120	12-Sep-16/O	< 0.01	< 0.01		
Nickel	mg/L	0.01	SM 3120	12-Sep-16/O	< 0.01	< 0.01		
Potassium	mg/L	0.1	SM 3120	12-Sep-16/O	< 0.1	< 0.1		
Silica	mg/L	0.02	SM 3120	12-Sep-16/O	2.78	2.80		
Silicon	mg/L	0.01	SM 3120	12-Sep-16/O	1.30	1.31		
Sodium	mg/L	0.2	SM 3120	12-Sep-16/O	1.5	1.6		
Strontium	mg/L	0.001	SM 3120	12-Sep-16/O	0.003	0.004		
Tin	mg/L	0.05	SM 3120	12-Sep-16/O	< 0.05	< 0.05		
Titanium	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005		

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SAMPLE MATRIX: Drinking Water

WATERWORKS NO.

			Client I.D.	Treated Water-with chlorine+20/5 /1 filter	Treated Water-with chlorine+20/5 /1 filter		
			Sample I.D.	B16-27083-9	B16-27083-10		
			Date Collected	06-Sep-16	06-Sep-16		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Vanadium	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005	
Yttrium	mg/L	0.005	SM 3120	12-Sep-16/O	< 0.005	< 0.005	
Zinc	mg/L	0.005	SM 3120	12-Sep-16/O	0.017	0.020	
Zirconium	mg/L	0.003	SM 3120	12-Sep-16/O	< 0.003	< 0.003	

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