



Taiga Environmental Laboratory
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3
Tel: (867)-669-2788 Fax: (867)-669-2718

Taiga Batch No.:
280546

- FINAL REPORT -

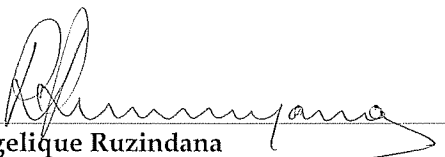
Prepared For: Nunavut District Office

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Facsimile: (867) 979-6445

Final report has been reviewed and approved by:


Angelique Ruzindana
Quality Assurance Officer

NOTES:

- Test methods and data are validated by the laboratory's Quality Assurance Program. Taiga Environmental Laboratory is accredited by the Canadian Association of Environmental Analytical Laboratories (CAEAL) as a testing laboratory for specific tests registered with CAEAL.
- Routine methods are based on recognized procedures from sources such as
 - Standard Methods for the Examination of Water and Wastewater APHA AWWA WEF;
 - Environment Canada
 - USEPA
- Samples shall be kept for thirty (30) days after the final report is issued. All microbiological samples shall be disposed of immediately upon completion of analysis to minimize biohazardous risks to laboratory personnel. Please contact the laboratory if you have any special requirements.
- Final results are based on the specific tests at the time of analysis and do not represent the conditions during sampling.



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Taiga Batch No.:
280546

- CERTIFICATE OF ANALYSIS -

Client Sample ID: Pot1

Taiga Sample ID: 001

Client Project: Igloolik
Sample Type: Res1
Received Date: 28-Aug-08
Sampling Date: 26-Aug-08
Sampling Time:
Location: Reservoir
Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifer
<u>Inorganics - Physicals</u>						
Colour, Apparent	20	5	CU	02-Sep-08	SM2120:B	
Conductivity, Specific (@ 25°C)	464	0.4	µS/cm	03-Sep-08	SM2510:B	
pH	7.9		pH units	03-Sep-08	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	02-Sep-08	SM2540:D	
Turbidity	3.32	0.05	NTU	28-Aug-08	SM2130:B	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	0.022	0.005	mg/L	02-Sep-08	SM4500-NH3:	
Biochemical Oxygen Demand			mg/L		SM5210:B	105
Chemical Oxygen Demand, Preserved	< 5.0	5.0	mg/L	28-Aug-08	SM5220:D	
Nitrate+Nitrite as Nitrogen	0.32	0.01	mg/L	02-Sep-08	SM4110:B	
<u>Major Ions</u>						
Calcium	34.2	0.1	mg/l	02-Sep-08	SM4110:B	
Chloride	68.3	0.7	mg/l	02-Sep-08	SM4110:B	
Hardness	138	0.7	mg/L	02-Sep-08	SM2340:B	

ReportDate: Thursday, September 04, 2008

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Magnesium	12.9	0.1	mg/l	02-Sep-08	SM4110:B
Sulphate	50	1	mg/l	02-Sep-08	SM4110:B

Microbiology

Coliforms, Fecal		CFU/100mL		SM9222:D	105
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Organics

Benzene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B
Ethylbenzene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B
Hexane Extractable Material	< 2.0	2.0	mg/L	04-Sep-08	EPA1664A
m/p-xylene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B
Oil and Grease, visible	non-visual			29-Aug-08	Visual Exam
o-xylene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B
Toluene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B

Trace Metals, Total

Aluminum	81	5	µg/L	04-Sep-08	EPA200.8
Antimony	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Arsenic	0.2	0.2	µg/L	04-Sep-08	EPA200.8
Barium	5.7	0.1	µg/L	04-Sep-08	EPA200.8
Beryllium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Cadmium	0.17	0.05	µg/L	04-Sep-08	EPA200.8
Cesium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Chromium	0.3	0.1	µg/L	04-Sep-08	EPA200.8
Cobalt	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Copper	0.6	0.2	µg/L	04-Sep-08	EPA200.8
Iron	64	5	µg/L	04-Sep-08	EPA200.8

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Taiga Sample ID: 001

Lead	0.4	0.1	µg/L	04-Sep-08	EPA200.8
Lithium	6.1	0.2	µg/L	04-Sep-08	EPA200.8
Manganese	1.3	0.1	µg/L	04-Sep-08	EPA200.8
Mercury	< 0.01	0.01	µg/L	04-Sep-08	EPA200.8
Molybdenum	1.0	0.1	µg/L	04-Sep-08	EPA200.8
Nickel	0.5	0.1	µg/L	04-Sep-08	EPA200.8
Rubidium	2.1	0.1	µg/L	04-Sep-08	EPA200.8
Selenium	< 0.5	0.5	µg/L	04-Sep-08	EPA200.8
Silver	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Strontium	88.5	0.1	µg/L	04-Sep-08	EPA200.8
Thallium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Titanium	2.5	0.1	µg/L	04-Sep-08	EPA200.8
Uranium	0.6	0.1	µg/L	04-Sep-08	EPA200.8
Vanadium	0.2	0.1	µg/L	04-Sep-08	EPA200.8
Zinc	< 5	5	µg/L	04-Sep-08	EPA200.8

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: Pot2

Taiga Sample ID: 002

Client Project: Igloodik
Sample Type: Res2
Received Date: 28-Aug-08
Sampling Date: 26-Aug-08
Sampling Time:

Location: Reservoir

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
Organics						
Benzene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B	
Ethylbenzene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B	
Hexane Extractable Material	< 2.0	2.0	mg/L	04-Sep-08	EPA1664A	
m/p-xylene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B	
o-xylene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B	
Toluene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B	
Trace Metals, Total						
Aluminum	84	5	µg/L	04-Sep-08	EPA200.8	
Antimony	0.3	0.1	µg/L	04-Sep-08	EPA200.8	
Arsenic	< 0.2	0.2	µg/L	04-Sep-08	EPA200.8	
Barium	7.1	0.1	µg/L	04-Sep-08	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8	
Cadmium	< 0.05	0.05	µg/L	04-Sep-08	EPA200.8	
Cesium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8	
Chromium	4.4	0.1	µg/L	04-Sep-08	EPA200.8	

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Client Sample ID: Pot2

Taiga Sample ID: 002

Cobalt	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Copper	0.6	0.2	µg/L	04-Sep-08	EPA200.8
Iron	69	5	µg/L	04-Sep-08	EPA200.8
Lead	12.8	0.1	µg/L	04-Sep-08	EPA200.8
Lithium	6.2	0.2	µg/L	04-Sep-08	EPA200.8
Manganese	1.4	0.1	µg/L	04-Sep-08	EPA200.8
Mercury	< 0.01	0.01	µg/L	04-Sep-08	EPA200.8
Molybdenum	1.2	0.1	µg/L	04-Sep-08	EPA200.8
Nickel	0.5	0.1	µg/L	04-Sep-08	EPA200.8
Rubidium	2.0	0.1	µg/L	04-Sep-08	EPA200.8
Selenium	< 0.5	0.5	µg/L	04-Sep-08	EPA200.8
Silver	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Strontium	88.8	0.1	µg/L	04-Sep-08	EPA200.8
Thallium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Titanium	4.2	0.1	µg/L	04-Sep-08	EPA200.8
Uranium	0.6	0.1	µg/L	04-Sep-08	EPA200.8
Vanadium	0.2	0.1	µg/L	04-Sep-08	EPA200.8
Zinc	< 5	5	µg/L	04-Sep-08	EPA200.8

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- CERTIFICATE OF ANALYSIS -

Client Sample ID: Pot3

Taiga Sample ID: 003

Client Project: Igloodik
Sample Type: Res3
Received Date: 28-Aug-08
Sampling Date: 26-Aug-08
Sampling Time:

Location: Reservoir

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Organics</u>						
Benzene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B	
Ethylbenzene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B	
Hexane Extractable Material	< 2.0	2.0	mg/L	04-Sep-08	EPA1664A	
m/p-xylene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B	
o-xylene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B	
Toluene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B	
<u>Trace Metals, Total</u>						
Aluminum	57	5	µg/L	04-Sep-08	EPA200.8	
Antimony	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8	
Arsenic	< 0.2	0.2	µg/L	04-Sep-08	EPA200.8	
Barium	6.3	0.1	µg/L	04-Sep-08	EPA200.8	
Beryllium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8	
Cadmium	< 0.05	0.05	µg/L	04-Sep-08	EPA200.8	
Cesium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8	
Chromium	0.3	0.1	µg/L	04-Sep-08	EPA200.8	

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Client Sample ID: Pot3

Taiga Sample ID: 003

Cobalt	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Copper	0.5	0.2	µg/L	04-Sep-08	EPA200.8
Iron	49	5	µg/L	04-Sep-08	EPA200.8
Lead	0.4	0.1	µg/L	04-Sep-08	EPA200.8
Lithium	6.1	0.2	µg/L	04-Sep-08	EPA200.8
Manganese	1.3	0.1	µg/L	04-Sep-08	EPA200.8
Mercury	< 0.01	0.01	µg/L	04-Sep-08	EPA200.8
Molybdenum	1.0	0.1	µg/L	04-Sep-08	EPA200.8
Nickel	0.4	0.1	µg/L	04-Sep-08	EPA200.8
Rubidium	1.9	0.1	µg/L	04-Sep-08	EPA200.8
Selenium	< 0.5	0.5	µg/L	04-Sep-08	EPA200.8
Silver	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Strontium	88.3	0.1	µg/L	04-Sep-08	EPA200.8
Thallium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Titanium	2.7	0.1	µg/L	04-Sep-08	EPA200.8
Uranium	0.6	0.1	µg/L	04-Sep-08	EPA200.8
Vanadium	0.2	0.1	µg/L	04-Sep-08	EPA200.8
Zinc	< 5	5	µg/L	04-Sep-08	EPA200.8

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Taiga Batch No.:
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- CERTIFICATE OF ANALYSIS -

Client Sample ID: Travel Blank

Taiga Sample ID: 004

Client Project: Igloolik
Sample Type: Water
Received Date: 28-Aug-08
Sampling Date: 26-Aug-08
Sampling Time:

Location: Reservoir

Report Status: Final

Test Parameter	Result	Detection Limit	Units	Analysis Date	Analytical Method *	Qualifier
<u>Inorganics - Physicals</u>						
Colour, Apparent	< 5	5	CU	02-Sep-08	SM2120:B	
Conductivity, Specific (@ 25°C)	0.6	0.4	µS/cm	03-Sep-08	SM2510:B	
pH	5.6		pH units	03-Sep-08	SM4500-H:B	
Solids, Total Suspended	< 3	3	mg/L	02-Sep-08	SM2540:D	
Turbidity	0.10	0.05	NTU	28-Aug-08	SM2130:B	
<u>Inorganics - Nutrients</u>						
Ammonia as Nitrogen	< 0.005	0.005	mg/L	02-Sep-08	SM4500-NH3:	
Nitrate+Nitrite as Nitrogen	< 0.01	0.01	mg/L	02-Sep-08	SM4110:B	
<u>Major Ions</u>						
Calcium	1.4	0.1	mg/l	02-Sep-08	SM4110:B	
Chloride	< 0.7	0.7	mg/l	02-Sep-08	SM4110:B	
Hardness	3.7	0.7	mg/L	02-Sep-08	SM2340:B	
Magnesium	< 0.1	0.1	mg/l	02-Sep-08	SM4110:B	
Sulphate	< 1	1	mg/l	02-Sep-08	SM4110:B	

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Client Sample ID: Travel Blank

Taiga Sample ID: 004

Organics

Benzene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B
Ethylbenzene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B
Hexane Extractable Material	< 2.0	2.0	mg/L	04-Sep-08	EPA1664A
m/p-xylene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B
Oil and Grease, visible	non-visual			29-Aug-08	Visual Exam
o-xylene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B
Toluene	< 0.005	0.005	mg/L	29-Aug-08	EPA8260B

Trace Metals, Total

Aluminum	< 5	5	µg/L	04-Sep-08	EPA200.8
Antimony	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Arsenic	< 0.2	0.2	µg/L	04-Sep-08	EPA200.8
Barium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Beryllium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Cadmium	< 0.05	0.05	µg/L	04-Sep-08	EPA200.8
Cesium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Chromium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Cobalt	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Copper	< 0.2	0.2	µg/L	04-Sep-08	EPA200.8
Iron	< 5	5	µg/L	04-Sep-08	EPA200.8
Lead	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Lithium	< 0.2	0.2	µg/L	04-Sep-08	EPA200.8
Manganese	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Mercury	< 0.01	0.01	µg/L	04-Sep-08	EPA200.8

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Molybdenum	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Nickel	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Rubidium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Selenium	< 0.5	0.5	µg/L	04-Sep-08	EPA200.8
Silver	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Strontium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Thallium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Titanium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Uranium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Vanadium	< 0.1	0.1	µg/L	04-Sep-08	EPA200.8
Zinc	< 5	5	µg/L	04-Sep-08	EPA200.8



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Taiga Sample ID: 004

- DATA QUALIFIERS -

Data Qualifier Descriptions:

105 *Samples received past hold time; analysis not possible.*

* Taiga analytical methods are based on the following standard analytical methods

SM - Standard Methods for the Examination of Water and Wastewater

EPA - United States Environmental Protection Agency

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