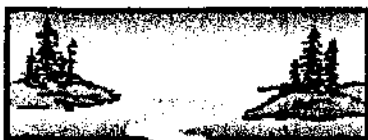


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Taiga Environmental Laboratory
4601-52nd Ave., Box 1500, Yellowknife, NT. X1A 2R3

Tel: (867)-669-2788
Fax: (867)-669-2718

- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: potable ARV-1

Taiga Sample ID: 232645

Client Project:

Sample Type: potable water

Received Date: 12-Aug-03

Location: Hamlet of Arviat

Sampling Date: 07-Aug-03

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date
<u>Physicals</u>				
Colour	<5		5	27-Aug-03
Conductivity, Specific	58.8	µS/cm	0.3	17-Aug-03
pH	6.96	pH units	0.05	17-Aug-03
Solids, Total Dissolved	36	mg/L	10	20-Aug-03
Solids, Total Suspended	<3	mg/L	3	20-Aug-03
Turbidity	1.2	NTU	0.1	20-Aug-03
<u>Nutrients</u>				
Ammonia as N	<0.005	mg/L	0.005	25-Aug-03
Nitrate+Nitrite as N	<0.008	mg/L	0.008	21-Aug-03
Phosphorous, Total	0.011	mg/L	0.002	22-Aug-03
<u>Major Ions</u>				
Calcium	3.24	mg/L	0.05	19-Aug-03
Chloride	8.5	mg/L	0.2	19-Aug-03
Magnesium	1.17	mg/L	0.02	19-Aug-03



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Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: potable ARV-1

Taiga Sample ID: 232645

Potassium	0.62	mg/L	0.03	20-Aug-03
Sodium	3.88	mg/L	0.02	20-Aug-03
Sulphate	<3	mg/L	3	20-Aug-03

Metals, Total

Aluminum	44	µg/L	30	20-Sep-03
Antimony	0.6	µg/L	0.1	20-Sep-03
Arsenic	<1	µg/L	1	18-Aug-03
Barium	5.8	µg/L	0.1	20-Sep-03
Beryllium	<0.1	µg/L	0.1	20-Sep-03
Cadmium	<0.1	µg/L	0.1	20-Sep-03
Cesium	<0.1	µg/L	0.1	20-Sep-03
Chromium	<0.3	µg/L	0.3	20-Sep-03
Cobalt	<0.1	µg/L	0.1	20-Sep-03
Copper	2.9	µg/L	0.2	20-Sep-03
Iron	86	µg/L	30	18-Aug-03
Lead	0.1	µg/L	0.1	20-Sep-03
Lithium	0.5	µg/L	0.3	20-Sep-03
Manganese	12.8	µg/L	0.1	20-Sep-03
Mercury	<0.01	µg/L	0.01	25-Aug-03
Molybdenum	<0.1	µg/L	0.1	20-Sep-03
Nickel	0.2	µg/L	0.1	20-Sep-03



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: potable ARV-1

Taiga Sample ID: 232645

Rubidium	1.8	µg/L	0.1	20-Sep-03
Selenium	<1	µg/L	1	20-Sep-03
Silver	<0.1	µg/L	0.1	20-Sep-03
Strontium	20.8	µg/L	0.1	20-Sep-03
Thallium	<0.1	µg/L	0.1	20-Sep-03
Titanium	0.9	µg/L	0.1	20-Sep-03
Uranium	<0.1	µg/L	0.1	20-Sep-03
Vanadium	0.1	µg/L	0.1	20-Sep-03
Zinc	<10	µg/L	10	20-Sep-03



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: seep ARV-2

Taiga Sample ID: 232649

Client Project:

Sample Type: sewage

Received Date: 12-Aug-03

Location: Hamlet of Arviat

Sampling Date: 07-Aug-03

Report Status: Final

Approved by:

Helene Huxon

Test Parameter	Result	Units	Detection Limit	Analysis Date
Physicals				
Colour	120		5	27-Aug-03
Conductivity, Specific	3810	µS/cm	0.3	19-Aug-03
pH	7.79	pH units	0.05	19-Aug-03
Solids, Total Suspended	32	mg/L	3	20-Aug-03
Turbidity	21.2	NTU	0.1	20-Aug-03
Nutrients				
Ammonia as N	35.8	mg/L	0.005	25-Aug-03
Nitrate+Nitrite as N	0.104	mg/L	0.008	21-Aug-03
Phosphorous, Total	4.03	mg/L	0.002	22-Aug-03
Major Ions				
Calcium	195	mg/L	0.05	19-Aug-03
Chloride	841	mg/L	0.2	19-Aug-03
Magnesium	68.0	mg/L	0.02	19-Aug-03
Potassium	54.5	mg/L	0.03	20-Aug-03



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: seep ARV-2

Taiga Sample ID: 232649

Sodium	459	mg/L	0.02	20-Aug-03
Sulphate	298	mg/L	3	20-Aug-03

Metals, Total

Aluminum	<30	µg/L	30	20-Sep-03
Antimony	6.2	µg/L	0.1	20-Sep-03
Arsenic	7	µg/L	1	18-Aug-03
Barium	59.1	µg/L	0.1	20-Sep-03
Beryllium	<0.1	µg/L	0.1	20-Sep-03
Cadmium	0.2	µg/L	0.1	20-Sep-03
Cesium	<0.1	µg/L	0.1	20-Sep-03
Chromium	<0.3	µg/L	0.3	20-Sep-03
Cobalt	1.2	µg/L	0.1	20-Sep-03
Copper	9.8	µg/L	0.2	20-Sep-03
Iron	812	µg/L	30	25-Aug-03
Lead	0.9	µg/L	0.1	20-Sep-03
Lithium	21.5	µg/L	0.3	20-Sep-03
Manganese	858	µg/L	0.1	18-Nov-03
Mercury	<0.01	µg/L	0.01	25-Aug-03
Molybdenum	0.3	µg/L	0.1	20-Sep-03
Nickel	10.0	µg/L	0.1	20-Sep-03
Rubidium	278	µg/L	0.1	20-Sep-03



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Attn: Scott Stewart

Sample ID: seep ARV-2

Taiga Sample ID: 232649

Selenium	12	µg/L	1	20-Sep-03
Silver	< 0.1	µg/L	0.1	20-Sep-03
Strontium	1350	µg/L	0.1	18-Nov-03
Thallium	< 0.1	µg/L	0.1	20-Sep-03
Titanium	3.6	µg/L	0.1	20-Sep-03
Uranium	0.6	µg/L	0.1	20-Sep-03
Vanadium	0.1	µg/L	0.1	20-Sep-03
Zinc	59	µg/L	10	20-Sep-03



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: sewage ARV-3

Taiga Sample ID: 232650

Client Project:

Sample Type: sewage

Received Date: 12-Aug-03

Location: Hamlet of Arviat

Sampling Date: 07-Aug-03

Report Status: Final

Approved by:

Helena Hayzel

Test Parameter	Result	Units	Detection Limit	Analysis Date
<u>Physicals</u>				
Colour	200		5	27-Aug-03
Conductivity, Specific	4650	µS/cm	0.3	19-Aug-03
pH	7.16	pH units	0.05	19-Aug-03
Solids, Total Dissolved	1330	mg/L	10	20-Aug-03
Solids, Total Suspended	248	mg/L	3	20-Aug-03
Turbidity	44.4	NTU	0.1	20-Aug-03
<u>Nutrients</u>				
Ammonia as N	84.3	mg/L	0.005	25-Aug-03
Chemical Oxygen Demand	300	mg/L	1	26-Aug-03
Nitrate+Nitrite as N	<0.008	mg/L	0.008	21-Aug-03
Phosphorous, Total	21.9	mg/L	0.002	22-Aug-03
<u>Major Ions</u>				
Calcium	24.1	mg/L	0.05	19-Aug-03
Chloride	1070	mg/L	0.2	19-Aug-03



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: sewage ARV-3

Taiga Sample ID: 232650

Magnesium	6.11	mg/L	0.02	19-Aug-03
Potassium	48.5	mg/L	0.03	20-Aug-03
Sodium	604	mg/L	0.02	20-Aug-03
Sulphate	117	mg/L	3	20-Aug-03

Metals, Total

Aluminum	217	µg/L	30	18-Nov-03
Antimony	1.8	µg/L	0.1	20-Sep-03
Arsenic	9	µg/L	1	18-Aug-03
Barium	17.1	µg/L	0.1	20-Sep-03
Beryllium	< 0.1	µg/L	0.1	20-Sep-03
Cadmium	0.2	µg/L	0.1	20-Sep-03
Cesium	< 0.1	µg/L	0.1	20-Sep-03
Chromium	1.0	µg/L	0.3	20-Sep-03
Cobalt	1.5	µg/L	0.1	20-Sep-03
Copper	30.5	µg/L	0.2	20-Sep-03
Iron	4888	µg/L	30	25-Aug-03
Lead	1.5	µg/L	0.1	20-Sep-03
Lithium	10.6	µg/L	0.3	20-Sep-03
Manganese	318	µg/L	0.1	18-Nov-03
Mercury	< 0.01	µg/L	0.01	25-Aug-03
Molybdenum	1.1	µg/L	0.1	20-Sep-03



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Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: sewage ARV-3

Taiga Sample ID: 232650

Nickel	9.2	µg/L	0.1	20-Sep-03
Rubidium	39.6	µg/L	0.1	20-Sep-03
Selenium	6	µg/L	1	20-Sep-03
Silver	0.2	µg/L	0.1	20-Sep-03
Strontium	310	µg/L	0.1	18-Nov-03
Thallium	<0.1	µg/L	0.1	20-Sep-03
Titanium	15.6	µg/L	0.1	20-Sep-03
Uranium	0.4	µg/L	0.1	20-Sep-03
Vanadium	6.9	µg/L	0.1	20-Sep-03
Zinc	21	µg/L	10	20-Sep-03

Subcontracted Organics

Phenols	300	µg/L	0.5	21-Aug-03
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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Arviat Base

Taiga Sample ID: 232651

Client Project:

Sample Type: sewage

Received Date: 12-Aug-03

Location: Hamlet of Arviat

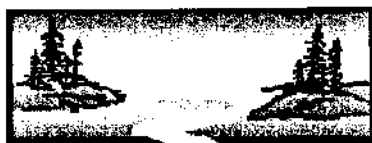
Sampling Date: 07-Aug-03

Report Status: Final

Approved by:

Helene Hayzen

Test Parameter	Result	Units	Detection Limit	Analysis Date
<u>Physicals</u>				
Colour	10		5	27-Aug-03
Conductivity, Specific	75.4	µS/cm	0.3	19-Aug-03
pH	6.90	pH units	0.05	19-Aug-03
Solids, Total Dissolved	40	mg/L	10	20-Aug-03
Solids, Total Suspended	8	mg/L	3	20-Aug-03
Turbidity	6.8	NTU	0.1	20-Aug-03
<u>Nutrients</u>				
Ammonia as N	0.009	mg/L	0.005	25-Aug-03
Nitrate+Nitrite as N	0.008	mg/L	0.008	21-Aug-03
Phosphorous, Total	0.017	mg/L	0.002	22-Aug-03
<u>Major Ions</u>				
Calcium	3.29	mg/L	0.05	19-Aug-03
Chloride	14.0	mg/L	0.2	19-Aug-03
Magnesium	1.46	mg/L	0.02	19-Aug-03



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- CERTIFICATE OF ANALYSIS -

Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Arviat Base

Taiga Sample ID: 232651

Potassium	0.79	mg/L	0.03	20-Aug-03
Sodium	6.20	mg/L	0.02	20-Aug-03
Sulphate	<3	mg/L	3	20-Aug-03

Metals, Total

Aluminum	79	µg/L	30	20-Sep-03
Antimony	1.0	µg/L	0.1	20-Sep-03
Arsenic	<1	µg/L	1	18-Aug-03
Barium	4.6	µg/L	0.1	20-Sep-03
Beryllium	<0.1	µg/L	0.1	20-Sep-03
Cadmium	<0.1	µg/L	0.1	20-Sep-03
Cesium	<0.1	µg/L	0.1	20-Sep-03
Chromium	<0.3	µg/L	0.3	20-Sep-03
Cobalt	<0.1	µg/L	0.1	20-Sep-03
Copper	3.1	µg/L	0.2	20-Sep-03
Iron	247	µg/L	30	18-Aug-03
Lead	1.1	µg/L	0.1	20-Sep-03
Lithium	0.7	µg/L	0.3	20-Sep-03
Manganese	23.0	µg/L	0.1	20-Sep-03
Mercury	<0.01	µg/L	0.01	25-Aug-03
Molybdenum	0.2	µg/L	0.1	20-Sep-03
Nickel	2.0	µg/L	0.1	20-Sep-03



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Prepared For: DIAND WR

Attn: Scott Stewart

Sample ID: Arviat Base

Taiga Sample ID: 232651

Rubidium	2.1	µg/L	0.1	20-Sep-03
Selenium	2	µg/L	1	20-Sep-03
Silver	<0.1	µg/L	0.1	20-Sep-03
Strontium	21.1	µg/L	0.1	20-Sep-03
Thallium	<0.1	µg/L	0.1	20-Sep-03
Titanium	5.0	µg/L	0.1	20-Sep-03
Uranium	<0.1	µg/L	0.1	20-Sep-03
Vanadium	<0.1	µg/L	0.1	20-Sep-03
Zinc	<10	µg/L	10	20-Sep-03

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