

**2002 PRE AND POST DRILLING
WATER SAMPLE RESULTS**

Nunavut Water
Board

JAN 04 2006

Public Registry



TAIGA ENVIRONMENTAL LABORATORY
4601 - 52nd Ave., P.O. Box 1500, Yellowknife, NT X1A 2R3
Tel: (867) 669-2788 • Fax: (867) 669-2718



Send Results & Invoice to:
(Please notify if results & invoices are to be sent to different locations)

Company/Agency: _____

Address: _____

City/Town: _____ Territory: _____

Postal Code: _____

Phone: () _____

Fax: () _____

E-mail: _____

Client Project No.: _____

Date / Time Sampled: _____

Sampler: _____

Location: _____

Sample Type: wastewater/sewage/potable/freshwater
(circle one)

Add'l Sample Info: _____

Date Received: _____ By: _____

- WATER SAMPLES -

Client Sample ID (As it should appear on final report)				
Taiga Sample ID				

Bottle Type Parameter:

[✓] PLEASE CHECK TESTS REQUIRED BELOW:

ROUTINE (GREEN)

pH, Conductivity, Alkalinity	pH	Cond	Alk	pH	Cond	Alk	pH	Cond	Alk	pH	Cond	Alk
Calcium, Magnesium, Hardness												
Sodium, Potassium												
Fluoride												
Reactive Silica												
Chloride, Sulphate	Cl		SO4	Cl		SO4	Cl		SO4	Cl		SO4
Colour												

NUTRIENTS (BLACK)

Turbidity									
Total Suspended Solids, Dissolved Solids	TSS	TDS	TSS	TDS	TSS	TDS	TSS	TDS	
Nitrate + Nitrite									
Ammonia									
Phosphorus: Total, Dissolved, Ortho	TP	DP	OP	TP	DP	OP	TP	DP	OP
Carbon: Total, Dissolved	TOC	DOC	TOC	DOC	TOC	DOC	TOC	DOC	
BOD									

MICROBIOLOGICAL (STERILE CONTAINER)

Faecal Coliform (FC)								
Total Coliforms (TC), E. Coli (EC)	TC	EC	TC	EC	TC	EC	TC	EC
Faecal Strep (FS)								
Standard Plate Count (SPC)								

METALS (RED)

Arsenic	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
ICP - MS(1): Cd, Cr, Cu, Co, Mn, Ni, Pb, Zn, Fe	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
ICP - MS(2): 25 element scan (not B or Sn)	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
Add'l Metals (please circle) Ag, Al, Ba, Be, Bi, B, Cd, Co, Cr, Cs, Cu, Fe, Li, Mn, Mo, Ni, Pb, Rb, Sb, Se, Sn, Sr, Ti, Tl, U, V, Zn	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.

Mercury (ORANGE)	Total	Diss.	Total	Diss.	Total	Diss.	Total	Diss.
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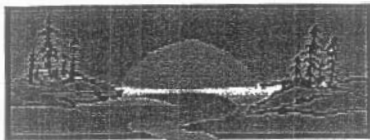
ORGANIC

Cyanide (BLUE)	Total	WAD	Total	WAD	Total	WAD	Total	WAD
Phenol (YELLOW)								
Oil & Grease (YELLOW)	VIS.	EXT.	VIS.	EXT.	VIS.	EXT.	VIS.	EXT.
THM / BTEX (vial)	THM	BTEX	THM	BTEX	THM	BTEX	THM	BTEX

Other:				
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SAMPLING INSTRUCTIONS

Parameter Group	Marking	Bottle Description	Preservative	Instructions
Routine	GREEN	500 or 750 mL plastic bottle	Keep cool at 4°C	Rinse bottle 3 times with sample, then fill to top and cap bottle.
Nutrients	BLACK	500 or 750 mL plastic bottle	Keep cool at 4°C	
Microbiological	STERILE	250 or 500 mL bottle containing sodium thiosulfate	Keep cool at 4°C	DO NOT RINSE bottle. Fill to near top and cap bottle.
Total Metals	RED	250 mL plastic bottle	5 mL of 1:3 nitric acid (<20% acid) in RED-dot vial	Rinse bottle 3 times with sample, then fill to near top. Add contents of preservative vial(s). Cap bottle and mix.
Mercury	ORANGE	150mL glass bottle with black top or 250 mL teflon bottle	2 mL 1:1 sulphuric acid + 1 mL 5% potassium dichromate (per 125 mL sample) in ORANGE-dot vials	
Dissolved Metals	RED	250 mL plastic bottle	SEE INSTRUCTIONS	Rinse bottle 3 times with sample, then fill to near top. Filter in the field through a pre-rinsed 0.45 µm membrane filter, collecting filtrate in another 250 mL RED-dot bottle. Add RED-DOT preservative, cap and mix. <i>If unable to filter sample in the field DO NOT ADD PRESERVATIVE and label as "dissolved metals--unfiltered, unpreserved."</i>
Oil & Grease	YELLOW	1 L brown glass WIDE -mouthed bottle	4 mL 1:1 sulphuric acid in YELLOW-dot vial	DO NOT RINSE bottle. Fill to shoulder of bottle. Add contents of preservative vial. Cap bottle and mix.
Phenol	YELLOW	1 L brown glass NARROW -mouthed bottle	4 mL 1:1 sulphuric acid in YELLOW-dot vial	Rinse bottle 3 times with sample, then fill to near top. Add contents of preservative vial(s). Cap bottle and mix.
Cyanide	BLUE	500 mL brown plastic bottle	5 mL 10% sodium hydroxide in BLUE-dot vial	
Sulphide	PURPLE	250 mL plastic bottle	1 mL 6N zinc acetate + 3 mL 10% sodium hydroxide in PURPLE-dot vials	
Chlorine	PINK	250 mL plastic bottle	Keep cool at 4°C	Rinse bottle 3 times with sample, then fill to top, leaving NO air space/gap.
BTEX/Volatile Organics	WHITE	40 mL clear glass vial with white lid	Keep cool at 4°C	DO NOT rinse bottle. Fill bottle completely, leaving NO air space/gap.



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REQD/RECEIVED

12-08-2002

- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16-001 after drilling

Taiga Sample ID: 221872

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

Sampling Date: 21-Jun-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date	Data Qualifier
<u>Physicals</u>					
Colour	10		5	16-Jul-02	2
Conductivity, Specific	186	µS/cm	0.3	12-Jul-02	2
pH	7.20	pH units	0.05	12-Jul-02	2
Solids, Total Suspended	3	mg/L	3	15-Jul-02	2
Turbidity	1.2	NTU	0.1	16-Jul-02	2
<u>Nutrients</u>					
Ammonia as N	0.018	mg/L	0.005	11-Jul-02	2
Chemical Oxygen Demand	<1	mg/L	1	09-Jul-02	2
Nitrate+Nitrite as N	0.010	mg/L	0.008	10-Jul-02	2
Phosphorous, Total	0.012	mg/L	0.004	09-Jul-02	2
<u>Major Ions</u>					
Calcium	23.2	mg/L	0.05	12-Jul-02	2
Hardness as CaCO ₃	71.1	mg/L	0.17	12-Jul-02	2
Magnesium	3.20	mg/L	0.02	12-Jul-02	2

Organic



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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16-001 after drilling

Taiga Sample ID: 221872

Oil and Grease (Visible)

non-vis

10-Jul-02 2

Data Qualifier Descriptions:

2 Holding time exceeded upon receipt of sample



Taiga Environmental Laboratory
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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16W-001 after drilling

Taiga Sample ID: 221873

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

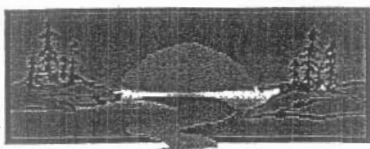
Sampling Date: 19-Jun-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date	Data Qualifier
<u>Physicals</u>					
Colour	20		5	16-Jul-02	2
Conductivity, Specific	193	µS/cm	0.3	12-Jul-02	2
pH	8.16	pH units	0.05	12-Jul-02	2
Solids, Total Suspended	<3	mg/L	3	15-Jul-02	2
Turbidity	0.5	NTU	0.1	16-Jul-02	2
<u>Nutrients</u>					
Ammonia as N	0.029	mg/L	0.005	11-Jul-02	2
Chemical Oxygen Demand	15	mg/L	1	09-Jul-02	2
Nitrate+Nitrite as N	<0.008	mg/L	0.008	10-Jul-02	2
Phosphorous, Total	0.031	mg/L	0.004	09-Jul-02	2
<u>Major Ions</u>					
Calcium	20.0	mg/L	0.05	12-Jul-02	2
Hardness as CaCO ₃	90.4	mg/L	0.17	12-Jul-02	2
Magnesium	9.82	mg/L	0.02	12-Jul-02	2

Organic



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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16W-001 after drilling

Taiga Sample ID: 221873

Oil and Grease (Visible)

non-vis

10-Jul-02

2

Data Qualifier Descriptions:

- 2 Holding time exceeded upon receipt of sample



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CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16W-002 after drilling

Taiga Sample ID: 221874

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

Sampling Date: 19-Jun-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date	Data Qualifier
<u>Physicals</u>					
Colour	20		5	16-Jul-02	2
Conductivity, Specific	183	µS/cm	0.3	16-Jul-02	2
pH	7.44	pH units	0.05	16-Jul-02	2
Solids, Total Suspended	5	mg/L	3	15-Jul-02	2
Turbidity	0.3	NTU	0.1	16-Jul-02	2
<u>Nutrients</u>					
Ammonia as N	0.029	mg/L	0.005	11-Jul-02	2
Chemical Oxygen Demand	20	mg/L	1	09-Jul-02	2
Nitrate+Nitrite as N	<0.008	mg/L	0.008	10-Jul-02	2
Phosphorous, Total	0.009	mg/L	0.004	09-Jul-02	2
<u>Major Ions</u>					
Calcium	19.0	mg/L	0.05	12-Jul-02	2
Hardness as CaCO ₃	87.6	mg/L	0.17	12-Jul-02	2
Magnesium	9.73	mg/L	0.02	12-Jul-02	2

Organic



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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16W-002 after drilling

Taiga Sample ID: 221874

Oil and Grease (Visible)

non-vis

10-Jul-02

2

Data Qualifier Descriptions:

2 Holding time exceeded upon receipt of sample



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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: A5 South before drilling

Taiga Sample ID: 221875

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

Sampling Date: 21-Jun-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date	Data Qualifier
<u>Physicals</u>					
Colour	5		5	16-Jul-02	2
Conductivity, Specific	76.5	µS/cm	0.3	16-Jul-02	2
pH	7.34	pH units	0.05	16-Jul-02	2
Solids, Total Suspended	<3	mg/L	3	15-Jul-02	2
Turbidity	0.4	NTU	0.1	16-Jul-02	2
<u>Nutrients</u>					
Ammonia as N	0.027	mg/L	0.005	11-Jul-02	2
Chemical Oxygen Demand	<1	mg/L	1	09-Jul-02	2
Nitrate+Nitrite as N	<0.008	mg/L	0.008	10-Jul-02	2
Phosphorous, Total	0.025	mg/L	0.004	09-Jul-02	2
<u>Major Ions</u>					
Calcium	7.44	mg/L	0.05	18-Jul-02	2
Hardness as CaCO ₃	39.8	mg/L	0.17	18-Jul-02	2
Magnesium	5.16	mg/L	0.02	18-Jul-02	2

Organic



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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: A5 South before drilling

Taiga Sample ID: 221875

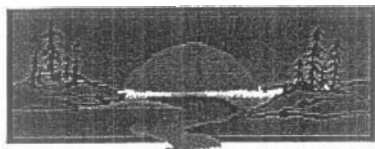
Oil and Grease (Visible)

non-vis

10-Jul-02 2

Data Qualifier Descriptions:

2 Holding time exceeded upon receipt of sample



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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: A5 South-001 after drilling

Taiga Sample ID: 221876

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

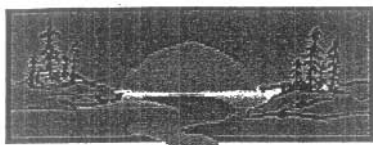
Sampling Date: 27-Jun-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date	Data Qualifier
<u>Physicals</u>					
Colour	20		5	16-Jul-02	2
Conductivity, Specific	107	µS/cm	0.3	16-Jul-02	2
pH	7.51	pH units	0.05	16-Jul-02	2
Solids, Total Suspended	5	mg/L	3	15-Jul-02	2
Turbidity	1.2	NTU	0.1	16-Jul-02	2
<u>Nutrients</u>					
Ammonia as N	0.014	mg/L	0.005	11-Jul-02	2
Chemical Oxygen Demand	10	mg/L	1	09-Jul-02	2
Nitrate+Nitrite as N	<0.008	mg/L	0.008	10-Jul-02	2
Phosphorous, Total	0.033	mg/L	0.004	09-Jul-02	2
<u>Major Ions</u>					
Calcium	11.9	mg/L	0.05	12-Jul-02	2
Hardness as CaCO ₃	57.7	mg/L	0.17	12-Jul-02	2
Magnesium	6.81	mg/L	0.02	12-Jul-02	2

Organic



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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: A5 South-001 after drilling

Taiga Sample ID: 221876

Oil and Grease (Visible)

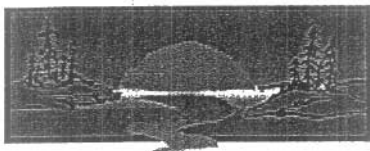
non-vis

10-Jul-02

2

Data Qualifier Descriptions:

2 Holding time exceeded upon receipt of sample



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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16W before drilling

Taiga Sample ID: 221877

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

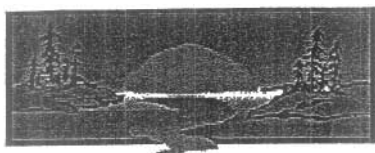
Sampling Date: 14-Jun-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date	Data Qualifier
<u>Physicals</u>					
Colour	10		5	16-Jul-02	2
Conductivity, Specific	45.1	µS/cm	0.3	16-Jul-02	2
pH	6.99	pH units	0.05	16-Jul-02	2
Solids, Total Suspended	3	mg/L	3	15-Jul-02	2
Turbidity	0.4	NTU	0.1	16-Jul-02	2
<u>Nutrients</u>					
Ammonia as N	0.005	mg/L	0.005	11-Jul-02	2
Chemical Oxygen Demand	10	mg/L	1	09-Jul-02	2
Nitrate+Nitrite as N	0.014	mg/L	0.008	10-Jul-02	2
Phosphorous, Total	0.013	mg/L	0.004	09-Jul-02	2
<u>Major Ions</u>					
Calcium	3.57	mg/L	0.05	12-Jul-02	2
Hardness as CaCO3	21.4	mg/L	0.17	12-Jul-02	2
Magnesium	3.04	mg/L	0.02	12-Jul-02	2

Organic



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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16W before drilling

Taiga Sample ID: 221877

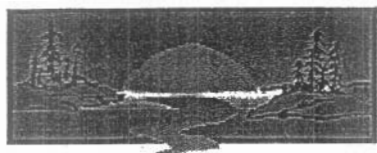
Oil and Grease (Visible)

non-vis

10-Jul-02 2

Data Qualifier Descriptions:

? Holding time exceeded upon receipt of sample



Taiga Environmental Laboratory
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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16 before drilling

Taiga Sample ID: 221878

Client Project: Victoria I 9821

Sample Type: freshwater

Received Date: 05-Jul-02

Location: I16-001-Victoria Island

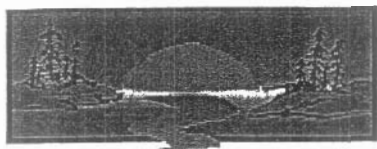
Sampling Date: 07-Jun-02

Report Status: Final

Approved by:

Test Parameter	Result	Units	Detection Limit	Analysis Date	Data Qualifier
<u>Physicals</u>					
Colour	20		5	16-Jul-02	2
Conductivity, Specific	195	µS/cm	0.3	16-Jul-02	2
pH	7.79	pH units	0.05	16-Jul-02	2
Solids, Total Suspended	<3	mg/L	3	15-Jul-02	2
Turbidity	0.4	NTU	0.1	16-Jul-02	2
<u>Nutrients</u>					
Ammonia as N	0.061	mg/L	0.005	11-Jul-02	2
Chemical Oxygen Demand	10	mg/L	1	09-Jul-02	2
Nitrate+Nitrite as N	<0.008	mg/L	0.008	10-Jul-02	2
Phosphorous, Total	0.008	mg/L	0.004	09-Jul-02	2
<u>Major Ions</u>					
Calcium	17.6	mg/L	0.05	12-Jul-02	2
Hardness as CaCO ₃	101	mg/L	0.17	12-Jul-02	2
Magnesium	13.8	mg/L	0.02	12-Jul-02	2

Organic



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- CERTIFICATE OF ANALYSIS -

Prepared For: Commander Resources

Attn:

Sample ID: I16 before drilling

Taiga Sample ID: 221878

Oil and Grease (Visible)

non-vis

10-Jul-02

2

Data Qualifier Descriptions:

2 Holding time exceeded upon receipt of sample