

APPENDIX 1

EXECUTIVE SUMMARY

IN INUKTITUT

- [illegible]

ልረብላቅቦኝ

- ልረብላቅ 1 ሥነ-ጥበቃዊ ልረብላቅ ልብላቅ
- ልረብላቅ 2 ሙሉ ስሜን ልረብላቅ ልረብላቅ ስሜን ልረብላቅ
- ልረብላቅ 3 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 4 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 5 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 6 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 7 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 8 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 9 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 10 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 11 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 12 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 13 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 14 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 15 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 16 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 17 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 18 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 19 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 20 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ
- ልረብላቅ 21 ስሜን ልረብላቅ ስሜን ልረብላቅ ልረብላቅ

6.3.3 ካሉካህድባታቸው ልዩነቶች/መልዕክት ወይም

- ለክርስቲያን ርቀት ለከረሰበት ልዩ 90 ካህናት (የሰው ልዩነት)

6.3.4 ለጥበቃው የሚገባው

- የህዝብ ካህናት ልዩነት ለሰው ልዩነት ወይም ለሰው ልዩነት ማስቀመጥ

6.3.5 የሰው ልዩነት ማስቀመጥ

- ሰው ልዩነት ማስቀመጥ ወይም ለሰው ልዩነት ማስቀመጥ

6.3.6 የሰው ልዩነት ማስቀመጥ

- ለሰው ልዩነት ማስቀመጥ ወይም ለሰው ልዩነት ማስቀመጥ

6.3.7 ለሰው ልዩነት

- ለሰው ልዩነት ማስቀመጥ ወይም ለሰው ልዩነት ማስቀመጥ

6.3.8 የሰው ልዩነት ማስቀመጥ

- ለሰው ልዩነት ማስቀመጥ ወይም ለሰው ልዩነት ማስቀመጥ

6.3.9 ለሰው ልዩነት ማስቀመጥ

- ለሰው ልዩነት ማስቀመጥ ወይም ለሰው ልዩነት ማስቀመጥ

6.3.10 ለሰው ልዩነት ማስቀመጥ

- ለሰው ልዩነት ማስቀመጥ ወይም ለሰው ልዩነት ማስቀመጥ

6.4. ለሰው ልዩነት ማስቀመጥ

- ለሰው ልዩነት ማስቀመጥ ወይም ለሰው ልዩነት ማስቀመጥ
- ለሰው ልዩነት ማስቀመጥ ወይም ለሰው ልዩነት ማስቀመጥ

7. የሰው ልዩነት ማስቀመጥ ለሰው ልዩነት ማስቀመጥ

ለሰው ልዩነት ማስቀመጥ ለሰው ልዩነት ማስቀመጥ

8. ለሰው ልዩነት ማስቀመጥ ለሰው ልዩነት ማስቀመጥ

8.1. የሰው ልዩነት ማስቀመጥ ለሰው ልዩነት ማስቀመጥ

ለሰው ልዩነት ማስቀመጥ ለሰው ልዩነት ማስቀመጥ

ለሰው ልዩነት ማስቀመጥ ለሰው ልዩነት ማስቀመጥ

8.2. የሰው ልዩነት ማስቀመጥ ለሰው ልዩነት ማስቀመጥ

ለሰው ልዩነት ማስቀመጥ ለሰው ልዩነት ማስቀመጥ

APPENDIX 2

SURFACE MELT WATER

SAMPLE ANALYSIS

POLARIS MINE

MELT WATER SAMPLE ANALYSIS RESULTS

JULY 2, 2003

Project	Polaris 23-305 Soil/Water Analysis
Report to	Gartner Lee Ltd.
ALS File No.	T1168
Date Received	05-07-03
Date:	14-07-03

RESULTS OF ANALYSIS

Sample ID	U/G	Water #1	Melt	Water #2
Date Sampled	02-07-03		02-07-03	
Time Sampled				
ALS Sample ID	9		10	
Nature	Water		Water	

Physical Tests

Hardness	CaCO3	459	289
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Total Metals

Aluminum	T-Al	<0.02	0.01
Antimony	T-Sb	<0.001	<0.0005
Arsenic	T-As	<0.002	<0.001
Barium	T-Ba	0.04	0.03
Beryllium	T-Be	<0.005	<0.005
Boron	T-B	0.3	0.3
Cadmium	T-Cd	0.0007	0.00033
Calcium	T-Ca	151	86.6
Chromium	T-Cr	<0.001	<0.0005
Cobalt	T-Co	0.003	0.0009
Copper	T-Cu	0.007	0.014
Iron	T-Fe	<0.03	<0.03
Lead	T-Pb	0.044	0.027
Lithium	T-Li	<0.05	<0.05
Magnesium	T-Mg	20	17.8
Manganese	T-Mn	0.11	0.02
Mercury	T-Hg	<0.0002	<0.0002
Molybdenum	T-Mo	0.003	0.003
Nickel	T-Ni	0.01	0.005
Selenium	T-Se	<0.004	<0.002
Silver	T-Ag	<0.0001	<0.00005
Sodium	T-Na	36	31
Thallium	T-Tl	<0.0004	0.0003
Titanium	T-Ti	<0.05	<0.05
Uranium	T-U	0.0014	0.0013
Vanadium	T-V	<0.03	<0.03
Zinc	T-Zn	1.65	1.07

Inorganic Parameters

Sulphide	S	<0.02	<0.02
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Extractable Hydrocarbons

EPH10-19	8.4	0.8
EPH19-32	<1	

APPENDIX 3

ANALYSIS OF

FREEZE PIPE GLYCOL

AND

SOIL SAMPLES FOR GLYCOL CONTAMINATION

POLARIS MINE - ANALYSIS OF DOCK FREEZE PIPE COOLANT

Project Polaris Soil/Product Analysis
Report to Gartner Lee Ltd.
ALS File No. S8818
Date Received 02/06/2003
Date: 10/06/2003

RESULTS OF ANALYSIS

Sample ID DOCK-1- 270503
Date Sampled 27/05/2003
Time Sampled
ALS Sample ID 13
Nature Product

Physical Tests

Moisture % -

Glycols

Diethylene Glycol Found
Ethylene Glycol Found
1,2-Propylene Glycol Not Found

Polycyclic Aromatic Hydrocarbons

Acenaphthene -
Acenaphthylene -
Anthracene -
Benz(a)anthracene -
Benzo(a)pyrene -
Benzo(b)fluoranthene -
Benzo(g,h,i)perylene -
Benzo(k)fluoranthene -
Chrysene -
Dibenz(a,h)anthracene -
Fluoranthene -
Fluorene -
Indeno(1,2,3-c,d)pyrene -
Naphthalene -
Phenanthrene -
Pyrene -

Extractable Hydrocarbons

EPH10-19 -
EPH19-32 -
LEPH -
HEPH -

Footnotes:

POLARIS MINE - ANALYSIS OF DOCK FREEZE PIPE COOLANT

Project Polaris Soil/Product Analysis
Report to Gartner Lee Ltd.
ALS File No. S8818
Date Received 02/06/2003
Date: 10/06/2003

DETECTION LIMITS

Sample ID DOCK-1- 270503
Date Sampled 27/05/2003
Time Sampled
ALS Sample ID 13
Nature Product

Physical Tests

Moisture % -

Glycols

Diethylene Glycol 5
Ethylene Glycol 5
1,2-Propylene Glycol 5

Polycyclic Aromatic Hydrocarbons

Acenaphthene -
Acenaphthylene -
Anthracene -
Benz(a)anthracene -
Benzo(a)pyrene -
Benzo(b)fluoranthene -
Benzo(g,h,i)perylene -
Benzo(k)fluoranthene -
Chrysene -
Dibenz(a,h)anthracene -
Fluoranthene -
Fluorene -
Indeno(1,2,3-c,d)pyrene -
Naphthalene -
Phenanthrene -
Pyrene -

Extractable Hydrocarbons

EPH10-19 -
EPH19-32 -
LEPH -
HEPH -

POLARIS MINE - DOCK SOIL SAMPLES TESTED FOR GLYCOL CONTAMINATION

Project Polaris Soil Analysis 23-305
Report to Gartner Lee Ltd.
ALS File No. S8646
Date Received 28/05/2003
Date: 05/06/2003

RESULTS OF ANALYSIS

Sample ID	Dock-62-I	Dock-63-I	Dock-66-I	Dock-67-I	Dock-72-I	Dock-73-I	Dock-74-I
Date Sampled	23/05/2003	23/05/2003	23/05/2003	23/05/2003	23/05/2003	23/05/2003	23/05/2003
Time Sampled							
ALS Sample ID	1	2	3	4	5	6	7
Nature	Sediment/Soil	Sediment/Soil	Sediment/Soil	Sediment/Soil	Sediment/Soil	Sediment/Soil	Sediment/Soil

Physical Tests

Moisture %	5.6	5	4.6	4.9	6.6	6.6	4.9
pH	-	7.54	7.96	-	-	-	7.29

Total Metals

Antimony T-Sb	-	-	<20	-	-	-	-
Arsenic T-As	-	-	<10	-	-	-	-
Barium T-Ba	-	-	325	-	-	-	-
Beryllium T-Be	-	-	<1	-	-	-	-
Cadmium T-Cd	-	-	20	-	-	-	-
Chromium T-Cr	-	-	8	-	-	-	-
Cobalt T-Co	-	-	<4	-	-	-	-
Copper T-Cu	-	-	22	-	-	-	-
Lead T-Pb	-	11200	4510	-	-	-	8570
Mercury T-Hg	-	-	0.08	-	-	-	-
Molybdenum T-Mo	-	-	<8	-	-	-	-
Nickel T-Ni	-	-	16	-	-	-	-
Selenium T-Se	-	-	<4	-	-	-	-
Silver T-Ag	-	-	<4	-	-	-	-
Tin T-Sn	-	-	<10	-	-	-	-
Vanadium T-V	-	-	47	-	-	-	-
Zinc T-Zn	-	18700	8620	-	-	-	23900

Glycols

Diethylene Glycol	<10	<10	<10	<10	<10	<10	<10
Ethylene Glycol	<10	<10	<10	<10	<10	<10	<10
1,2-Propylene Glycol	<10	<10	<10	<10	<10	<10	<10

Footnotes:

Results are expressed as milligrams per dry kilogram except where noted.
< = Less than the detection limit indicated.

POLARIS MINE - DOCK SOIL SAMPLES TESTED FOR GLYCOL CONTAMINATION

Project Polaris Soil Analysis 23-305
 Report to Gartner Lee Ltd.
 ALS File No. S8646
 Date Received 28/05/2003
 Date: 05/06/2003

DETECTION LIMITS

Sample ID	Dock-62-I	Dock-63-I	Dock-66-I	Dock-67-I	Dock-72-I	Dock-73-I	Dock-74-I
Date Sampled	23/05/2003	23/05/2003	23/05/2003	23/05/2003	23/05/2003	23/05/2003	23/05/2003
Time Sampled							
ALS Sample ID	1	2	3	4	5	6	7
Nature	Sediment/Soil	Sediment/Soil	Sediment/Soil	Sediment/Soil	Sediment/Soil	Sediment/Soil	Sediment/Soil

Physical Tests

Moisture %	0.1	0.1	0.1	0.1	0.1	0.1	0.1
pH	-	0.01	0.01	-	-	-	0.01

Total Metals

Antimony T-Sb	-	-	20	-	-	-	-
Arsenic T-As	-	-	10	-	-	-	-
Barium T-Ba	-	-	2	-	-	-	-
Beryllium T-Be	-	-	1	-	-	-	-
Cadmium T-Cd	-	-	1	-	-	-	-
Chromium T-Cr	-	-	4	-	-	-	-
Cobalt T-Co	-	-	4	-	-	-	-
Copper T-Cu	-	-	2	-	-	-	-
Lead T-Pb	-	100	100	-	-	-	50
Mercury T-Hg	-	-	0.05	-	-	-	-
Molybdenum T-Mo	-	-	8	-	-	-	-
Nickel T-Ni	-	-	10	-	-	-	-
Selenium T-Se	-	-	4	-	-	-	-
Silver T-Ag	-	-	4	-	-	-	-
Tin T-Sn	-	-	10	-	-	-	-
Vanadium T-V	-	-	4	-	-	-	-
Zinc T-Zn	-	2	2	-	-	-	1

Glycols

Diethylene Glycol	10	10	10	10	10	10	10
Ethylene Glycol	10	10	10	10	10	10	10
1,2-Propylene Glycol	10	10	10	10	10	10	10

POLARIS MINE - DOCK SOIL SAMPLES TESTED FOR GLYCOL CONTAMINATION

Project Polaris Soil Analysis
Report to Gartner Lee Ltd.
ALS File No. T5093
Date Received 10/10/2003
Date: 20/10/2003

RESULTS OF ANALYSIS

Sample ID	DOCK- 262-I	DOCK- 264-F	DOCK- 265-F
Date Sampled	07/10/2003	07/10/2003	07/10/2003
Time Sampled			
ALS Sample ID	12	13	14
Nature	Sediment/Soil	Sediment/Soil	Sediment/Soil

Physical Tests

Moisture %	-	12.6	8.4
pH	-	-	-

Total Metals

Antimony T-Sb	-	-	-
Arsenic T-As	-	-	-
Barium T-Ba	-	-	-
Beryllium T-Be	-	-	-
Cadmium T-Cd	-	-	-
Chromium T-Cr	-	-	-
Cobalt T-Co	-	-	-
Copper T-Cu	-	-	-
Lead T-Pb	977	-	-
Mercury T-Hg	-	-	-
Molybdenum T-Mo	-	-	-
Nickel T-Ni	-	-	-
Selenium T-Se	-	-	-
Silver T-Ag	-	-	-
Tin T-Sn	-	-	-
Vanadium T-V	-	-	-
Zinc T-Zn	3140	-	-

Glycols

Diethylene Glycol	-	<10	<10
Ethylene Glycol	-	<10	<10
1,2-Propylene Glycol	-	<10	<10

Polycyclic Aromatic Hydrocarbons

Acenaphthene	-	-	<0.04
Acenaphthylene	-	-	<0.05
Anthracene	-	-	<0.05
Benz(a)anthracene	-	-	<0.05
Benzo(a)pyrene	-	-	<0.05
Benzo(b)fluoranthene	-	-	<0.05
Benzo(g,h,i)perylene	-	-	<0.05
Benzo(k)fluoranthene	-	-	<0.05
Chrysene	-	-	<0.05
Dibenz(a,h)anthracene	-	-	<0.05
Fluoranthene	-	-	<0.05
Fluorene	-	-	<0.05
Indeno(1,2,3-c,d)pyrene	-	-	<0.05
Naphthalene	-	-	<0.05
Phenanthrene	-	-	<0.05
Pyrene	-	-	<0.05

Extractable Hydrocarbons

EPH10-19	-	<200	<200
EPH19-32	-	<200	<200
LEPH	-	-	<200
HEPH	-	-	<200

Footnotes:

POLARIS MINE - DOCK SOIL SAMPLES TESTED FOR GLYCOL CONTAMINATION

Project Polaris Soil Analysis
Report to Gartner Lee Ltd.
ALS File No. T5093
Date Received 10/10/2003
Date: 20/10/2003

DETECTION LIMITS

Sample ID	DOCK- 262-I	DOCK- 264-F	DOCK- 265-F
Date Sampled	07/10/2003	07/10/2003	07/10/2003
Time Sampled			
ALS Sample ID	12	13	14
Nature	Sediment/Soil	Sediment/Soil	Sediment/Soil

Physical Tests

Moisture %	-	0.1	0.1
pH	-	-	-

Total Metals

Antimony T-Sb	-	-	-
Arsenic T-As	-	-	-
Barium T-Ba	-	-	-
Beryllium T-Be	-	-	-
Cadmium T-Cd	-	-	-
Chromium T-Cr	-	-	-
Cobalt T-Co	-	-	-
Copper T-Cu	-	-	-
Lead T-Pb	100	-	-
Mercury T-Hg	-	-	-
Molybdenum T-Mo	-	-	-
Nickel T-Ni	-	-	-
Selenium T-Se	-	-	-
Silver T-Ag	-	-	-
Tin T-Sn	-	-	-
Vanadium T-V	-	-	-
Zinc T-Zn	2	-	-

Glycols

Diethylene Glycol	-	10	10
Ethylene Glycol	-	10	10
1,2-Propylene Glycol	-	10	10

Polycyclic Aromatic Hydrocarbons

Acenaphthene	-	-	0.04
Acenaphthylene	-	-	0.05
Anthracene	-	-	0.05
Benz(a)anthracene	-	-	0.05
Benzo(a)pyrene	-	-	0.05
Benzo(b)fluoranthene	-	-	0.05
Benzo(g,h,i)perylene	-	-	0.05
Benzo(k)fluoranthene	-	-	0.05
Chrysene	-	-	0.05
Dibenz(a,h)anthracene	-	-	0.05
Fluoranthene	-	-	0.05
Fluorene	-	-	0.05
Indeno(1,2,3-c,d)pyrene	-	-	0.05
Naphthalene	-	-	0.05
Phenanthrene	-	-	0.05
Pyrene	-	-	0.05

Extractable Hydrocarbons

EPH10-19	-	200	200
EPH19-32	-	200	200
LEPH	-	-	200
HEPH	-	-	200