

21 December 2007

Chief Administrative Officer
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

RE: Water License NWB1JER0410 Monthly SNP Report – November 2007

Following is the monthly report for November 2007 as required under Water Licence 2AM-JER0410.

SNP Sampling

During the month of November 2007 samples were collected as required for the SNP sampling program. A summary of the November 2007 sampling is provided in Table 1.

Table 1: SNP Water Sampling Summary

SNP Station	Sampling Date	Lab#	Comment
JER-SW1	14 Nov 2007	L577565 270849	ALS TAIGA
JER-SW3	11 Nov 2007	L577565	ALS
JER-SW4	13 Nov 2007	L577565	ALS

All samples were collected as per requirements under Water License NWB1JER0410. Sample locations not listed in Table 1 were not required to be sampled during the month of November.

Field parameters were not collected for the month of November due to required repairs and maintenance on the field meter.

Results

A) Water Sampling and Analysis Results

1. Table 2 provides the results for samples related to the SNP sampling requirements for the month of November 2007.

B) Flow and Volume Measurements

1. Table 3 provides a breakdown of flow and volume measurements and solid material moved as required under Part K, Item 12 and 13 of the water license.

Should you have any questions regarding the monthly report for November 2007 please contact the undersigned at 780 644-9129 or environment@tahera.com.

Regards,

Laura Smithies
Manager, Environment

Roland Jones
General Mine Manager

TABLE 2 - November 2007

Project	JERICHO	JERICHO	JERICHO
Report To			
ALS File No.	L577595	L577595	L577595
Date Received	14-Nov-07	14-Nov-07	14-Nov-07
Date	03-Dec-07	03-Dec-07	03-Dec-07

RESULTS OF ANALYSIS

Sample ID		JER-SW1	JER-SW3	JER-SW4
Date Sampled		14-NOV-07	11-NOV-07	13-NOV-07
Time Sampled		07:00	15:30	11:45
ALS Sample ID		L577565-1	L577565-2	L577565-5
Matrix	Units	Water	Water	Water
Physical Tests				
Hardness (as CaCO ₃)	mg/L	31.4	51.9	102
Conductivity	uS/cm	953	257	387
pH		7.65	8.45	7.7
Total Dissolved Solids	mg/L	350	136	244
Total Suspended Solids	mg/L	17.5	5.5	<3.0
Turbidity	NTU	17.1	4.14	0.33
Anions and Nutrients				
Ammonia as N	mg N/L	61.1	3.24	3.65
Acidity (as CaCO ₃)	mg/L	23.8	<1.0	3.8
Alkalinity, Bicarbonate (as CaCO ₃)	mg/L	301	55.9	42.9
Alkalinity, Carbonate (as CaCO ₃)	mg/L	<1.0	3.1	<1.0
Alkalinity, Hydroxide (as CaCO ₃)	mg/L	<1.0	<1.0	<1.0
Alkalinity, Total (as CaCO ₃)	mg/L	301	59	42.9
Chloride (Cl)	mg/L	64.8	11	17.7
Sulfate (SO ₄)	mg/L	43.9	15.5	30.6
Nitrate (as N)	mg N/L	0.0094	7.6	21
Nitrite (as N)	mg N/L	0.0155	0.404	0.213
Total Kjeldahl Nitrogen	mg N/L	62.2	2.73	4.06
Ortho Phosphate as P	mg P/L	6.49	<0.0010	<0.0010
Total Dissolved Phosphate As P	mg P/L	7.05	0.0021	<0.0020
Total Phosphate as F	mg P/L	7.1	0.0094	0.0026
Total Metals				
Aluminum (Al)-Total	mg/L	0.0707	0.0178	<0.0020
Antimony (Sb)-Total	mg/L	0.00107	0.00104	0.00048
Arsenic (As)-Total	mg/L	0.00064	0.0002	0.00039
Barium (Ba)-Total	mg/L	0.0144	0.201	0.0946
Beryllium (Be)-Total	mg/L	<0.00050	<0.00050	<0.00050
Bismuth (Bi)-Total	mg/L	0.00127	<0.00050	<0.00050
Boron (B)-Total	mg/L	0.026	0.081	0.039
Cadmium (Cd)-Total	mg/L	0.000067	<0.000050	<0.000050
Calcium (Ca)-Total	mg/L	8.74	7.29	23.9
Chromium (Cr)-Total	mg/L	0.00143	<0.00050	<0.00050
Cobalt (Co)-Total	mg/L	0.00023	0.00014	0.00012
Copper (Cu)-Total	mg/L	0.08	0.00025	0.00094
Iron (Fe)-Total	mg/L	0.827	0.055	<0.030
Lead (Pb)-Total	mg/L	0.00152	<0.000050	<0.000050
Lithium (Li)-Total	mg/L	0.0229	<0.0050	<0.0050
Magnesium (Mg)-Total	mg/L	2.8	8.17	9.73
Manganese (Mn)-Total	mg/L	0.0297	0.00148	0.00352

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Date	03-Dec-07	03-Dec-07	03-Dec-07

RESULTS OF ANALYSIS

Sample ID		JER-SW1	JER-SW3	JER-SW4
Date Sampled		14-NOV-07	11-NOV-07	13-NOV-07
Time Sampled		07:00	15:30	11:45
ALS Sample ID		L577565-1	L577565-2	L577565-5
Matrix	Units	Water	Water	Water
Mercury (Hg)-Total	mg/L	<0.000050	<0.000050	<0.000050
Molybdenum (Mo)-Total	mg/L	0.00121	0.00519	0.00737
Nickel (Ni)-Total	mg/L	0.00677	0.00484	0.00412
Potassium (K)-Total	mg/L	17.6	17	12.8
Selenium (Se)-Total	mg/L	<0.0010	<0.0010	<0.0010
Silicon (Si)-Total	mg/L	2.06	3.41	2.98
Silver (Ag)-Total	mg/L	0.000034	<0.000010	<0.000010
Sodium (Na)-Total	mg/L	87.5	13	19.9
Strontium (Sr)-Total	mg/L	0.0193	0.3	0.593
Thallium (Tl)-Total	mg/L	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	<0.0022	<0.00010	0.00151
Titanium (Ti)-Total	mg/L	<0.010	<0.010	<0.010
Uranium (U)-Total	mg/L	0.000167	0.00002	0.00121
Vanadium (V)-Total	mg/L	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0562	<0.0010	<0.0030
Dissolved Metals				
Aluminum (Al)-Dissolved	mg/L	0.0235	<0.0010	0.0013
Antimony (Sb)-Dissolved	mg/L	0.00089	0.00106	0.0005
Arsenic (As)-Dissolved	mg/L	0.00065	0.0002	0.00039
Barium (Ba)-Dissolved	mg/L	0.0104	0.205	0.0956
Beryllium (Be)-Dissolved	mg/L	<0.00050	<0.00050	<0.00050
Bismuth (Bi)-Dissolved	mg/L	0.00054	<0.00050	<0.00050
Boron (B)-Dissolved	mg/L	0.026	0.085	0.04
Cadmium (Cd)-Dissolved	mg/L	<0.000050	<0.000050	<0.000050
Calcium (Ca)-Dissolved	mg/L	8.22	7.31	24.8
Chromium (Cr)-Dissolved	mg/L	0.00069	<0.00050	<0.00050
Cobalt (Co)-Dissolved	mg/L	0.00013	<0.00010	0.00013
Copper (Cu)-Dissolved	mg/L	0.0427	<0.00020	0.00121
Iron (Fe)-Dissolved	mg/L	0.645	<0.030	<0.030
Lead (Pb)-Dissolved	mg/L	0.000865	<0.000050	<0.000050
Lithium (Li)-Dissolved	mg/L	0.0217	<0.0050	<0.0050
Magnesium (Mg)-Dissolved	mg/L	2.64	8.18	9.83
Manganese (Mn)-Dissolved	mg/L	0.0259	0.000678	0.00155
Mercury (Hg)-Dissolved	mg/L	<0.000050	<0.000050	<0.000050
Molybdenum (Mo)-Dissolved	mg/L	0.00079	0.00554	0.00767
Nickel (Ni)-Dissolved	mg/L	0.00534	0.00308	0.00431
Potassium (K)-Dissolved	mg/L	17.5	17.3	13.3
Selenium (Se)-Dissolved	mg/L	<0.0010	<0.0010	<0.0010
Silicon (Si)-Dissolved	mg/L	2.02	3.24	2.89
Silver (Ag)-Dissolved	mg/L	0.000015	<0.000010	<0.000010
Sodium (Na)-Dissolved	mg/L	88	13.1	19.9

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Date Sampled		14-NOV-07	11-NOV-07	13-NOV-07
Time Sampled		07:00	15:30	11:45
ALS Sample ID		L577565-1	L577565-2	L577565-5
Matrix	Units	Water	Water	Water
Strontium (Sr)-Dissolved	mg/L	0.0189	0.302	0.605
Thallium (Tl)-Dissolved	mg/L	<0.00010	0.00011	<0.00010
Tin (Sn)-Dissolved	mg/L	<0.0022	<0.00010	0.00124
Titanium (Ti)-Dissolved	mg/L	<0.010	<0.010	<0.010
Uranium (U)-Dissolved	mg/L	0.000129	0.000011	0.00124
Vanadium (V)-Dissolved	mg/L	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Dissolved	mg/L	0.0321	<0.0010	<0.0010
Aggregate Organics				
Oil and Grease	mg/L	3.2	-	-
Organic Parameters				
Total Inorganic Carbon	mg/L	62	11.6	8.76
Total Organic Carbon	mg/L	50.4	1.38	2.49
Taiga Labs				
Taiga File No.		270849		
Date Received		14-Nov-07		
Date		14-Nov-07		
Matrix		Water		
Biochemical Oxygen Demand	mg/L	20		
Fecal Coliform	CFU/100 mL	28000		
Field Measurements				
Field Water Temperature	deg C	N/A	N/A	N/A
Field Conductivity	uS/cm	N/A	N/A	N/A
Field DO	%	N/A	N/A	N/A
Field DO	mg/L	N/A	N/A	N/A
Field pH		N/A	N/A	N/A
Field ORP	mV	N/A	N/A	N/A

*Field Measurements not available - field meter out for repair.

Table 3: Flow and Volume Measurements-Part K Item 12 and 13

DATE	Carat Lake Freshwater Use (m3) (Camp and Emulsion Plant) - Daily	Carat Lake Freshwater Use (m3) (Construction Requirements) - Daily	Treated Sewage Effluent to PKC (Long Lake) (m3) Daily Calculated	Sewage Sludge Removed (m3)	Pit Pond Water to Long Lake (m3) - Daily	East Sump pond to PKC (Long Lake) (m3) - Daily	Other waters to PKC (Long Lake) (m3)	Water Discharged from PKC (m3)	PKC Water Recycled (m3)	Process Plant Fresh Water (m3)	Process Plant Water Discharged to PKC (m3)	Coarse Rejects (tonnes)	Fine Rejects to PKC (tonnes)	Ore Processed (tonnes)	Quantity of Waste Rock (tonnes)	Quantity of Esker (tonnes)	Quantity of till (tonnes)
1-Nov	24.9	0.0	17.4	Monthly	0.0	0.0	Monthly	0.0	Monthly	1042.8	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
2-Nov	20.9	0.0	14.6		0.0	0.0		0.0		1004.4							
3-Nov	23.3	0.0	16.3		0.0	0.0		0.0		1012.8							
4-Nov	25.8	0.0	18.1		0.0	0.0		0.0		704.6							
5-Nov	33.6	0.0	23.5		0.0	0.0		0.0		926.3							
6-Nov	18.6	0.0	13.0		0.0	0.0		0.0		969.6							
7-Nov	25.6	0.0	17.9		0.0	0.0		0.0		1124.7							
8-Nov	27.3	0.0	19.1		0.0	0.0		0.0		1133.2							
9-Nov	22.9	0.0	16.0		0.0	0.0		0.0		903.9							
10-Nov	17.9	43.3	12.5		0.0	0.0		0.0		956.7							
11-Nov	33.7	129.9	23.6		0.0	0.0		0.0		978.0							
12-Nov	16.4	144.4	11.5		0.0	0.0		0.0		964.0							
13-Nov	25.3	144.4	17.7		0.0	0.0		0.0		973.0							
14-Nov	34.8	158.8	24.4		0.0	0.0		0.0		939.5							
15-Nov	17.1	14.4	12.0		0.0	0.0		0.0		902.5							
16-Nov	29.5	0.0	20.7		0.0	0.0		0.0		879.8							
17-Nov	14.2	0.0	9.9		0.0	0.0		0.0		825.9							
18-Nov	42.2	0.0	29.5		0.0	0.0		0.0		797.4							
19-Nov	28.7	0.0	20.1		0.0	0.0		0.0		444.1							
20-Nov	33.1	0.0	23.2		0.0	0.0		0.0		930.2							
21-Nov	24.2	0.0	16.9		0.0	0.0		0.0		954.5							
22-Nov	23.9	0.0	16.7		0.0	0.0		0.0		928.5							
23-Nov	18.7	0.0	13.1		0.0	0.0		0.0		988.2							
24-Nov	31.3	0.0	21.9		0.0	0.0		0.0		922.4							
25-Nov	27.2	0.0	19.0		0.0	0.0		0.0		863.8							
26-Nov	23.5	0.0	16.5		0.0	0.0		0.0		922.5							
27-Nov	28.3	0.0	19.8		0.0	0.0		0.0		925.9							
28-Nov	25.8	0.0	18.1		0.0	0.0		0.0		936.0							
29-Nov	23.5	0.0	16.5		0.0	0.0		0.0		67.0							
30-Nov	31.5	0.0	22.1		0.0	0.0		0.0		621.2							
Total	773.7	635.2	541.6	45	0.0	0.0	0	0.0	0.0	26543.4	22255	40296	12127	51689	449664	0	0