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March 30, 2011

Technical Advisor – Mining
Nunavut Water Board
P.O. Box 119
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Re: February 2011 – Monthly Monitoring Report for Water License 2BB-BOS0712 under Part J – Items 2 – 8 and 11 - 14.

Following is the monthly report for February 2011 as required under Water License 2BB-BOS0712. The license was issued on July 6, 2007 and will expire on July 31, 2012. The water license is specific for Advanced Exploration Mining and Milling – Type B; the quantity of water usages shall not exceed 100 cubic metres daily, or 365,000 cubic metres total for 2011.

This monthly report provides information on Part J (Conditions Applying to the Monitoring Program) Items 2 through 8 and 11 through 14 inclusive. Other conditions stipulated in the license refer specially to mining and milling processes. The underground bulk sample has been stockpiled and additional mining has not been continued at this time. After the Doris North mining and milling facilities are operational, the stockpiled ore from Boston will be transported for processing.

Boston Camp facilities have been under care and maintenance since June 15, 2010 with reduced staffing levels while upgrades to the facility were being completed.

1. PART J: ITEM 2

Sampling was not conducted during the month at monitoring station BOS-2 (Containment Pond), as no discharge occurred during the period. Any effluent in this facility was frozen.

2. PART J: ITEM 3

Samples were collected at the Sewage Treatment Plant station BOS-3 during February. Table 1 below shows the results for samples collected February 05/11. Effluent quality from the Sewage Treatment Facility was compliant for all parameters.

Table 1. Sampling Results in mg/L for Monitoring Station BOS-3, February 2011

Parameters	BOS-3	License # 2BB-BOS0712 Part D: Item 17
ALS Lab Reference #	L976098-1	
Field Sample Details	BOS-3	
Sample Date/Time	Feb 4/11	
BOD_5	7.5	80.0 mg/l
Total Suspended Solids	<3.0	100.0 mg/l
Faecal Coliform	6	10,000 CFU/100ml
Oil and Grease (visible sheen)	None	No visible sheen
Oil and Grease	1.6	-
pH	6.59	6.0 – 9.5 pH unit

Samples were not collected from BOS-4 as this station has insufficient effluent for sampling and the area is frozen.

3. PART J: ITEM 4

No Toxicity testing was conducted during February as this station has insufficient effluent for sampling and the area was frozen.

4. PART J: ITEM 5

No discharge from BOS-5 (Bulk Fuel Storage) occurred during this period as this station was frozen.

No sampling was conducted at BOS-6 (Landfarm Treatment Facility) as there was negligible effluent accumulated in the berm and no discharge to the environment from this facility.

No samples were collected at sampling station BOS-7 during the month, as no flow was observed at this location.

These facilities are all frozen for the winter season.

5. PART J: ITEM 6 AND PART J: ITEM 7

No opportunistic sampling occurred at BOS-8 during the period for the parameters required under this part.

6. PART J: ITEM 8 (REFERENCE TO PART F: ITEM 7)

Under–ice water quality samples were collected Feb 13/11 from Spyder Lake before the winter drilling program was scheduled to commence. Results are provided in Table 2.

Table 2. Sampling Results for Under Ice Water Quality Pre-Drilling, February 2011

Field Sample Details	Units	BOSSL1-13FEB11	BOSSL2-13FEB11	BOSSL3-13FEB11
ALS Lab Reference		L978281-1	L978281-2	L978281-3
Date/Time		2/13/2011 12:49:00 PM	2/13/2011 11:40:00 AM	2/13/2011 1:00:00 PM
Location		Spyder Lake	Spyder Lake	Spyder Lake
Geographical Coordinates		68° 38' 57" 106° 24' 02"	68° 39' 17" 106° 23' 47"	68° 38' 27" 106° 34' 46"
Parameter		Water	Water	Water
Total Suspended Solids	mg/L	<3.0	<3.0	<3.0
Alkalinity, Total (as CaCO3)	mg/L	11.7	11.9	13.6
Bicarbonate (HCO3)	mg/L	14.3	14.5	16.6
Carbonate (CO3)	mg/L	<5.0	<5.0	<5.0
Chloride (Cl)	mg/L	12.1	12.9	13.3
Conductivity (EC)	uS/cm	66.7	73.6	76.9
Fluoride (F)	mg/L	0.062	0.063	0.059
Hardness (as CaCO3)	mg/L	16.7	18.4	18.9
Hydroxide (OH)	mg/L	<5.0	<5.0	<5.0
Ion Balance	%	Low EC	Low EC	Low EC
Nitrate and Nitrite as N	mg/L	<0.071	<0.071	<0.071
Nitrate (as N)	mg/L	<0.050	<0.050	<0.050
Nitrite (as N)	mg/L	<0.050	<0.050	<0.050
pH	pH	7.13	7.17	7.22
TDS (Calculated)	mg/L	32.8	35.2	36.7
Sulfate (SO4)	mg/L	2.09	2.24	2.23
Aluminum (Al)-Total	mg/L	0.017	0.027	0.028
Antimony (Sb)-Total	mg/L	<0.00040	<0.00040	<0.00040
Arsenic (As)-Total	mg/L	<0.00040	<0.00040	<0.00040
Barium (Ba)-Total	mg/L	<0.0030	<0.0030	<0.0030
Beryllium (Be)-Total	mg/L	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L	<0.050	<0.050	<0.050
Cadmium (Cd)-Total	mg/L	<0.000050	<0.000050	<0.000050
Calcium (Ca)-Total	mg/L	3.57	3.43	3.7
Chromium (Cr)-Total	mg/L	<0.0050	<0.0050	<0.0050
Cobalt (Co)-Total	mg/L	<0.0020	<0.0020	<0.0020
Copper (Cu)-Total	mg/L	0.0013	0.0018	0.0016
Iron (Fe)-Total	mg/L	0.022	0.031	0.028
Lead (Pb)-Total	mg/L	<0.00010	<0.00010	<0.00010
Lithium (Li)-Total	mg/L	<0.010	<0.010	<0.010
Magnesium (Mg)-Total	mg/L	2.04	1.98	2.13
Manganese (Mn)-Total	mg/L	<0.0020	0.0021	<0.0020
Mercury (Hg)-Total	mg/L	<0.00010	<0.00010	<0.00010
Molybdenum (Mo)-Total	mg/L	<0.0050	<0.0050	<0.0050
Nickel (Ni)-Total	mg/L	<0.0020	<0.0020	<0.0020
Potassium (K)-Total	mg/L	0.9	0.91	0.94
Selenium (Se)-Total	mg/L	<0.00040	<0.00040	<0.00040
Silver (Ag)-Total	mg/L	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L	5.7	5.6	6
Thallium (Tl)-Total	mg/L	<0.00010	<0.00010	<0.00010
Tin (Sn)-Total	mg/L	<0.050	<0.050	<0.050
Titanium (Ti)-Total	mg/L	<0.0010	<0.0010	<0.0010
Uranium (U)-Total	mg/L	<0.00010	<0.00010	<0.00010
Vanadium (V)-Total	mg/L	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	<0.0040	0.0067	<0.0040
Calcium (Ca)-Dissolved	mg/L	3.36	3.68	4.01
Magnesium (Mg)-Dissolved	mg/L	2.01	2.23	2.17
Potassium (K)-Dissolved	mg/L	0.78	0.88	0.85
Sodium (Na)-Dissolved	mg/L	5.4	6.1	5.9

7. PART J: ITEM 11

No water usage for drilling occurred pertaining to this licence for the month of February, as the winter drilling program had not yet commenced. Domestic water used during February is detailed in Table 3. After a comprehensive check of the validity of the water meter readings, it was determined that the raw water meter was out of calibration. The meter was determined to be reading 13.3% lower than the actual values. The column to the right of the recorded usage reflects an estimate of the water used based on the calibration.

Table 3: Water Usage in cubic metres (m^3), February 2011

Parameters	Domestic Usage BOS-1(m^3) (Recorded)	Domestic Usage BOS-1(m^3) (Estimated)	Drill Water Usage	2BB-BOS0712
Water Source	Spyder Lake	Spyder Lake	-	Compliance Values
Annual Cumulative	30.86	34.96	-	
Monthly Cumulative	18.58	21.06	-	3,100 m^3 monthly
Volume Average (Daily)	0.66	0.75	-	100 m^3 daily
Maximum	2.53	2.86	-	100 m^3 daily
Minimum	0.0	0.0	-	100 m^3 daily

8. PART J: ITEM 12

No minewater was pumped from underground (Boston Portal) during the month.

9. PART J: ITEM 13

Sewage effluent discharge occurred at monitoring station BOS-3 in the month of February. The volume discharged is shown in Table 4. A check of the discharge meter at BOS-3 on March 28, 2011 has shown it is out of calibration, and does not appear to be holding the calibration. The meter function will be tested on March 30, 2011and will be replaced if it cannot be repaired. Due to this error with the volume meter, we have provided an estimate of the likely discharge from the sewage treatment plant based on water usage in the facility.

Table 4: Treated Sewage Effluent released in cubic metres (m^3), February 2011

Parameters	BOS-3 (m^3) (Recorded)	BOS-3 (m^3) (Estimated)	2BB-BOS0712
Annual Cumulative	48.60	34.96	-
Monthly Cumulative	25.27	21.06	-
Volume Average (Daily)	0.90	0.75	-
Maximum	4.40	2.86	-
Minimum	0.0	0.00	-

10. PART J: ITEM 14

No removal of sewage sludge occurred in February at the Sewage Disposal Facility.

11. INCIDENT REPORTING

One incident occurred during the month pertaining to this licence.

1) February 20/11 - Level 2 (Minor). During fuelling of the camp generator day tank, the operator temporarily left the nozzle unattended and approx.. 20L of diesel overflowed onto the floor of the generator room. No fluid escaped the building to the environment. The spill was cleaned up with sorbent pads.

Should there be any questions regarding the monthly report for February 2011, please contact Chris Hanks, Director, Environment and Social Responsibility, Hope Bay Mining Limited on phone number: 720-917-4489 or email: Chris.Hanks@Newmont.com

Yours sincerely,

Chris Hanks

Digitally signed by Chris Hanks
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