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Technical Advisor – Mining  
Nunavut Water Board  
P.O. Box 119  
Gjoa Haven, NU X0B 1J0

**Re: June 2011 – Monthly Monitoring Report for Water License 2BB-BOS0712 under Part J – Items 2 – 8 and 11 – 14**

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

This report contains the information required in Part J (Conditions Applying to the Monitoring Program) Items 2-8 and 11-14. Other conditions stipulated in the license refer specifically to mining and milling processes which are not applicable at this time.

Upgrades to the Boston Camp facilities are being completed in 2011. The upgrades include renovations to the existing Medic and the recreation facilities.

**1. PART J: ITEM 2, 5, AND 7**

Water was not discharged from monitoring station BOS-6 (Land farm Treatment Facility), BOS-5 (Fuel Containment Facility) or BOS-2 (Containment Pond). Seep samples were collected from BOS-8 (Waste Rock and Ore Storage Pad); results are presented in Table 1.

Table 1: Sampling Results in mg/L for Monitoring Station BOS-8, June 2011

Parameters		BOS-8A	BOS-8B	BOS-8C
ALS Lab Reference #		L1023112-1	L1023112-2	L1023112-3
Sample Date/Time		6/23/2011 14:25	6/23/2011 14:15	6/23/2011 14:05
Ammonia (as N)	mg/L	0.381	0.0246	0.0139
Chloride (Cl)	mg/L	68.6	355	171
Conductivity (EC)	uS/cm	763	1690	786
pH	pH	7.71	6.87	7.58
Sulfate (SO4)	mg/L	188	236	61.6
Aluminum (Al)-Total	mg/L	0.167	0.099	0.136
Antimony (Sb)-Total	mg/L	0.0033	0.0218	0.00073
Arsenic (As)-Total	mg/L	0.0664	0.271	0.00767
Barium (Ba)-Total	mg/L	0.0239	0.107	0.0382
Beryllium (Be)-Total	mg/L	<0.0010	<0.0010	<0.0010
Boron (B)-Total	mg/L	0.113	0.193	0.078
Cadmium (Cd)-Total	mg/L	<0.000050	<0.000050	<0.000050
Calcium (Ca)-Total	mg/L	60	171	89.6
Chromium (Cr)-Total	mg/L	<0.0050	<0.0050	<0.0050
Cobalt (Co)-Total	mg/L	0.0967	0.245	0.0028
Copper (Cu)-Total	mg/L	0.0043	0.0015	0.0023
Iron (Fe)-Total	mg/L	0.469	0.082	0.439
Lead (Pb)-Total	mg/L	0.00032	<0.00010	0.00045
Lithium (Li)-Total	mg/L	<0.010	0.051	0.011
Magnesium (Mg)-Total	mg/L	36.3	35.8	19.6
Manganese (Mn)-Total	mg/L	1.97	0.188	0.0259

Parameters		BOS-8A	BOS-8B	BOS-8C
Mercury (Hg)-Total	mg/L	<0.00010	<0.00010	<0.00010
Molybdenum (Mo)-Total	mg/L	<0.0050	0.0081	<0.0050
Nickel (Ni)-Total	mg/L	0.104	0.43	0.0098
Potassium (K)-Total	mg/L	8.93	12	5.46
Selenium (Se)-Total	mg/L	0.00113	0.00285	<0.00040
Silver (Ag)-Total	mg/L	<0.00010	<0.00010	<0.00010
Sodium (Na)-Total	mg/L	37	40	22.9
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	0.0032	0.0012
Uranium (U)-Total	mg/L	0.00011	<0.00010	<0.00010
Vanadium (V)-Total	mg/L	<0.0010	<0.0010	<0.0010
Zinc (Zn)-Total	mg/L	0.0068	0.0055	<0.0040

## 2. PART J: ITEM 3 AND 4

Table 2 shows the results for samples collected from the sewage treatment plant effluent (BOS-3) in May. Effluent quality from the Sewage Treatment Facility was compliant for all parameters. Samples were not collected from BOS-4 as this station is frozen. Annual toxicity testing at BOS-4 will be completed once during open water season.

Table 2: Sampling Results in mg/L for Monitoring Station BOS-3, May 2011

Parameters	BOS-3	License # 2BB-BOS0712
ALS Lab Reference #	L1014118-1	<b>Part D: Item 17</b>
Sample Date/Time	05-JUN-11 15:30	
BOD <sub>5</sub>	18.8	80.0 mg/l
Total Suspended Solids	11	100.0 mg/l
Faecal Coliform	9700	10,000 CFU/100ml
Oil and Grease (visible sheen)	No	No visible sheen
Oil and Grease	<1.0	mg/L
pH	6.81	6.0 – 9.5 pH unit

## 3. PART J: ITEM 11 AND 12

Water for drilling, as well as Domestic use during June, is detailed in Table 3. Water from drilling was taken from Stickleback Lake.

Table 3: Daily Drill Water Usage in cubic metres (m<sup>3</sup>), June 2011

Date	Drills				Domestic Usage	100 m <sup>3</sup> Daily Daily Total
	Orbit 22	Orbit 24	Orbit 25	Drills Total		
1	0.1		4.0	4.1	4.7	8.8
2	0.0		12.4	12.4	5.8	18.2
3	0.5		4.6	5.1	6.3	11.4
4	0.0		2.8	2.8	5.9	8.7
5	8.2		5.8	14	6.0	20.0
6	5.0		4.4	9.4	5.8	15.2
7	10.1	3.3	3.8	17.2	6.8	24.0
8	6.5	0.8	3.2	10.5	4.8	15.3
9	0.5	2.7	1.0	4.2	7.6	11.8
10	1.9	2.7	2.1	6.7	6.8	13.5
11	3.1	4.7	0.2	8.0	5.2	13.2
12	4.1	3.8	2.3	10.2	5.9	16.1
13	6.7	2.4	2.1	11.2	5.7	16.9
14	3.6	0.3	1.4	5.3	5.6	10.9
15	19.3	4.2	1.9	25.4	4.9	30.3
16	5.3	7.0	2.6	14.9	6.0	20.9
17	2.2	1.2	0.3	3.7	6.8	10.6
18	5.5	1.3	0.4	7.2	7.1	14.3
19	4.3	1.3	4.5	10.1	5.6	15.7
20	5.3	5.5	0.9	11.7	6.6	18.3
21	3.5		0.0	3.5	6.8	10.3
22	4.7		0.0	4.7	6.2	10.9
23	0.3		1.0	1.3	7.1	8.4
24	0.0		1.1	1.1	13.0	14.1
25	5.2		1.7	6.9	5.5	12.4
26	0.4		1.6	2.0	6.6	8.6
27	1.8	1.7	2.4	5.9	7.6	13.5
28	3	3.0	1.7	7.7	6.4	14.1
29	1.8	16.7	1.4	19.9	6.8	26.7
30	0.6	3.7	2.0	6.3	13.0	19.3
31				0		0.0
<b>Monthly Total</b>	<b>113.5</b>	<b>66.3</b>	<b>73.6</b>	<b>253.4</b>	<b>198.9</b>	<b>452.3</b>
Monthly Average	3.8	3.7	2.5	8.2	6.6	14.6
Monthly Min	0.0	0.3	0.0	1.1	4.69	8.4
Monthly Max	19.3	16.7	12.4	25.4	13.0	30.3
<b>Previous Annual Cumulative</b>				337.4	325.2	662.6
<b>Current Annual Cumulative</b>				<b>590.8</b>	<b>524.1</b>	<b>1114.9</b>

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

Under-ice water quality samples were not collected from Aimaokatalok (Spyder) Lake in June as the ice was unsafe for sampling access by the time the drills were removed from the lake.

#### 5. PART J: ITEM 12

No mine water was pumped from underground (Boston Portal).

#### 6. PART J: ITEM 13 AND 14

The volume of sewage effluent discharged from BOS-3 is shown in Table 4.

Table 4: Treated Sewage Effluent released in cubic metres (m<sup>3</sup>), June 2011

Parameters	Estimated Effluent BOS-3 (m <sup>3</sup> )	Sludge Removed (m <sup>3</sup> )
Annual Cumulative	522.41	-
Monthly Cumulative	191.48	-

**7. INCIDENT REPORTING**

There were no incidents reported during the month pertaining to this licence.

Should there be any questions regarding the monthly report for May 2011, please contact Chris Hanks, Director, Environment and Social Responsibility at 720-917-4489 or [Chris.Hanks@Newmont.com](mailto:Chris.Hanks@Newmont.com).

Yours sincerely,

**Chris Hanks**

Director, Environment and Social Responsibility  
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