

August 05, 2010

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

**Re: July 2010 – Monthly Monitoring Report for Water License 2BB-BOS0712 under Part J –
Items 2 – 8 and 11 - 14.**

Following is the monthly report for July 2010 as required under Water License 2BB-BOS0712. Boston Camp facilities were shut down May 25/09 and re-opened June 15/10 at reduced staffing levels while modifications to the Sewage Treatment Plant (STP) 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.

2. PART J: ITEM 3

Samples were collected at BOS-3 during July. The camp was recently opened for the season and greywater generated from shower and kitchen facilities at the camp during the interim opening period, was discharged through the final effluent line pending the commissioning of the Sewage Disposal Facility. Table 1 below shows the results from samples collected July 01/10.

Table 1. Sampling Results for Monitoring Station BOS-3, July 2010

| Parameters | BOS-3 | Remarks |
|---------------------------|--------------------|-----------------------|
| ALS Lab Reference # | L904255-1 | License # 2BB-BOS0712 |
| Field Sample Details | BOS-3 (GW) | - |
| Sample Date/Time | Jul 01/10@1600 hrs | - |
| pH | 6.29 | - |
| Oil & Grease | 40.9 | mg/l |
| Oil & Grease (Visibility) | NVS | - |
| Fecal Coliforms | 195 | CFU/100ml |
| Total Suspended Solids | 88.0 | mg/l |
| BOD | 141 | mg/l |

3. PART J: ITEM 4

No toxicity testing was conducted during the month at monitoring station BOS-4 as the Sewage Disposal Facility is not operational and insufficient sewage effluent at the point prior to entry into Aimaoktatuk Lake was available for sampling at this location.

4. **PART J: ITEM 5**

Discharge from BOS-5 (Bulk Fuel Storage) was directed into the Containment Pond (BOS-2) pending treatment. The effluent met the licence criteria for discharge for all parameters with the exception of lead. This effluent will be re-sampled for the parameters pertaining to sampling station BOS-5 post-treatment to determine compliance prior to any discharge from the facility.

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.

Samples were collected at sampling station BOS-7 during the period. Table 2 shows the data from this sampling.

Table 2. Sampling Results for Monitoring Stations BOS-7, July 2010

| Parameters | BOS-7 | Remarks |
|--|--------------------------|-----------------------|
| ALS Lab Reference # | L904255-3 | License # 2BB-BOS0712 |
| Field Sample Details | BOS-7 | Part D: Item 21 |
| Sample Date/Time | July 01/10 @ 1500 hrs | Part J: Item 5 |
| pH | 7.13 | - |
| Oil & Grease | <1.0 | - |
| Oil & Grease (Visibility) | nvs* | - |
| Benzene | <0.00050 | - |
| Toluene | <0.00050 | - |
| Ethylbenzene | <0.00050 | - |
| Xylene | <0.001 | - |
| F1 (C6-C10) | <0.10 | - |
| F2 (>C10-C16) | <0.25 | - |
| F3 (C16-C34) | <0.25 | - |
| F4 (C34-C50) | <0.25 | - |
| Phenols (4AAP) | 0.0025 | - |
| Conductivity (EC) | 2100 | - |
| Total Hardness (as CaCO ₃) | 812 | - |
| Nitrate-Nitrite as N | 12.9 | - |
| Nitrate (as N) | 12.9 | - |
| Nitrite (as N) | <0.050 | - |
| Calcium | 250 | - |
| Potassium | 17.4 | - |
| Magnesium | 45.5 | - |
| Sodium | 63.8 | - |
| Sulphate | 325 | - |
| Total Alkalinity (as CaCO ₃) | 46.2 | - |
| Total Arsenic | n/a | - |
| Total Cadmium | n/a | - |
| Total Chromium | n/a | - |
| Total Copper | n/a | - |
| Total Nickel | n/a | - |
| Total Lead | n/a | - |
| Total Iron | n/a | - |
| Total Mercury | n/a | - |

*nvs = no visible sheen

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

Sampling occurred at BOS-8 during the period for the parameters required under this part. Table 3 shows the results from this sampling.

Table 3: Sampling Results for Monitoring Stations BOS-8, July 2010

| Parameters | BOS-8A | BOS-8B | Remarks |
|------------------------|--------------------------|--------------------------|-----------------------|
| ALS Lab Reference # | L904337-2 | L904337-2 | License # 2BB-BOS0712 |
| Field Sample Details | BOS-8A | BOS-8B | Part D: Item 21 |
| Sample Date/Time | July 01/10 @ 1500 hrs | July 01/10 @ 1500 hrs | Part J: Item 5 |
| pH | 7.85 | 7.48 | - |
| Sulfate | 232 | 343 | - |
| Total Ammonia | <0.050 | <0.050 | - |
| Conductivity (EC) | 1210 | 1520 | - |
| Total Suspended Solids | n/a | n/a | - |
| Aluminum | 0.080 | 0.051 | - |
| Antimony | 0.00496 | 0.0045 | - |
| Barium | 0.0341 | 0.0442 | - |
| Beryllium | <0.0010 | <0.0040 | - |
| Cadmium | <0.000050 | <0.00020 | - |
| Chromium | <0.0050 | <0.0050 | - |
| Cobalt | 0.0223 | 0.0044 | - |
| Copper | 0.0083 | <0.0040 | - |
| Iron | 1.82 | 0.088 | - |
| Lead | 0.00038 | <0.00040 | - |
| Lithium | 0.011 | <0.024 | - |
| Molybdenum | <0.0050 | <0.0050 | - |
| Manganese | 0.219 | 0.0359 | - |
| Nickel | 0.0843 | 0.0287 | - |
| Selenium | <0.0020 | <0.0080 | - |
| Tin | <0.050 | <0.050 | - |
| Thallium | <0.00010 | <0.00040 | - |
| Titanium | 0.0029 | <0.0024 | - |
| Uranium | 0.00018 | <0.00040 | - |
| Vanadium | 0.0017 | <0.0020 | - |
| Zinc | 0.0049 | <0.016 | - |
| Arsenic | 0.235 | 0.0128 | - |
| Silver | <0.00010 | <0.00040 | - |

*nvs = no visible sheen

6. PART J: ITEM 8

On-ice drilling samples were not collected as no winter drilling was conducted pertaining to this licence.

7. PART J: ITEM 11

No water usage for drilling occurred pertaining to this licence for the month of July. Domestic water usage started June 15/10 to open the camp and consumption during July is detailed in Table 4.

Table 4: Water Usage in cubic meters (m³), July 2010

| Parameters | Domestic Usage BOS-1 (m ³) | 2BB-BOS0712 |
|---------------------------|---|------------------------------|
| Water Source | Spyder Lake | Compliance Values |
| Annual Cumulative | 365.78 | |
| Monthly Cumulative | 335.06 | 3,100 m ³ monthly |
| Volume Average (Daily) | 10.8 | 100 m ³ daily |
| Maximum | 88.38 | 100 m ³ daily |
| Minimum | 0 | 100 m ³ daily |

8. PART J: ITEM 12

No mine water, per Part D: Item 7 was pumped from underground to containment pond BOS-2 during the month.

9. PART J: ITEM 13

No sewage effluent discharge occurred at monitoring station BOS-3 in the month of July, as the camp was open only at minimal staffing levels for construction and start-up of the Sewage Disposal Facility. Disposable toilet facilities were used to manage human waste and this waste was burned in the incinerator.

10. PART J: ITEM 14

No removal of sewage sludge occurred in July as the Sewage Disposal Facility.

11. INCIDENT REPORTING

No incidents occurred during the month pertaining to this licence.

Should there be any questions regarding the monthly report for July 2010, 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

Director, Environment and Social Responsibility
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