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Technical Advisor – Mining
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**Re: June 2009 –Monthly Monitoring Report for Water License 2BE-HOP0712 under Part J – Items 2 – 8.**

Following is the monthly report for June 2009 as required under Water license 2BE-HOP0712. Note that Windy Camp closed for operation in 2008. For the exploration program in 2009, drilling support is being provided out of Doris Camp. Drilling water consumption will be reported under Part J: Item 5 of this report.

1. **PART J: ITEM 2**

During the month of June 2009, no water quality sampling was done at SNP stations HOP-2 and HOP-3 located at Windy Lake. The Windy Camp was closed for operation as of October 23, 2008.

2. **PART J: ITEM 3**

No sampling was conducted for Non-acute Toxicity at HOP-3 during the month of June as the Waste Water Treatment Facility (WWTF) was not operational and there is no effluent available for sampling at the point of entry into Windy Lake.

3. **PART J: ITEM 4**

Water quality samples were taken in June at HOP-5 (Bulk Fuel Storage – Windy Camp) from untreated water in the berm. Effluent met the licence criteria for discharge on all parameters with the exception of lead, which was just slightly over the compliance value. No water removal from HOP-5 occurred during the period. The water in this berm will be run through an oil/water separator and filtration system and the treated effluent will be sampled.

Water quality samples were taken at HOP-6 (Bulk Fuel Storage – Patch Lake) and effluent was found to be in compliance with the criteria for discharge. A notification to discharge was provided to the Inspector and discharge occurred (pumping and via gravity feed) to the south and west of the fuel berm down the rock wall on to the tundra at geographical coordinate location: 68° 04' 23" N 106° 35' 26" W. Results of sampling at HOP-5 and HOP-6 compared against licence criteria are provided in Table 1.

Table 1. Results of Monitoring Program Station Sampling for HOP-6, June 2009

| **Parameters** | **HOP-5** | **HOP-6** | **Hope Bay: 2BE-HOP0712** |
|---|---|---|---|
| Water Source | Bulk Fuel Storage Windy Camp | Bulk Fuel Storage Patch Lake | Monitoring Program Station Description |
| ALS Lab Reference # | L778070-2 | L777361-1 | Compliance Values |
| Field Sample Details | HOP-5 | HOP-6 | Part D: Item 17 |
| Sample Date/Time | June 14/09 13:30 | June 11/09 08:30 | Part J: Item 4 |
| Oil & Grease | <1.0 | <1.0 | 15 mg//L or 30 mg/L |
| Oil and Grease No Visible Sheen | nvs | nvs | No visible sheen (nvs) |
| Benzene | < 0.00050 | <0.00050 | 0.37 mg/L |
| Toluene | < 0.00050 | <0.00050 | 0.002 mg/L |
| Ethylbenzene | < 0.00050 | 0.00062 | 0.09 mg/L |
| Lead | **0.00104*** | 0.00080 | 0.001 mg/L |

** Bold values exceed licence water quality standards*

## 4. PART J: ITEM 5

Water quality samples under Part F: Item 7 - Drilling through Lake Ice were collected in June once drilling operations were complete. On-ice drilling was completed on Doris Lake May 20/09 and Patch Lake June 8/09. The analytical results of the sampling are provided in Table 2 and Table 3.

Table 2. Water Quality Monitoring for Post Ice Drilling on Doris Lake, June 2009.

| **Parameters** | | | | | | **2BE-HOP0712** |
|---|---|---|---|---|---|---|
| Water Source | Doris Lake | Doris Lake | Doris Lake | Doris Lake | Doris Lake | Compliance Values[1] |
| Field Sample Details | Doris # 1 | Doris # 4 | Doris # 5 | Doris # 6 | Doris # 6A | Part F: Item 7 |
| Date | June 9/09 15:15 | June 9/09 15:30 | June 9/09 15:34 | June 9/09 16:00 | June 9/09 16:30 | |
| Geographical Coordinates | 68° 7.913'N 106° 35.753'W | 68° 7.714'N 106° 35.518'W | 68° 7.467'N 106° 35.430'W | 68° 6.924'N 106° 35.263'W | 68° 6.082''N 106° 34.655'W | |
| ALS Lab Reference # | L775976-13 | L775976-14 | L775976-15 | L775976-16 | L775976-17 | |
| TSS | 3.5 | <3.0 | 3.0 | <3.0 | <3.0 | * |
| pH | 7.36 | 7.32 | 7.35 | 7.35 | 7.44 | - |
| Electrical Conductivity | 287 | 282 | 324 | 289 | 303 | - |
| Mercury | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | - |
| Iron | 0.0425 | 0.0375 | 0.0504 | 0.0349 | 0.0329 | - |
| Manganese | 0.0060 | 0.0069 | 0.0058 | 0.0046 | 0.0035 | - |
| Aluminium | **0.018** | **0.012** | **0.016** | **0.013** | **0.024** | - |
| Arsenic | 0.00070 | 0.00063 | 0.00079 | 0.00064 | 0.00072 | - |
| Barium | 0.0035 | <0.0030 | 0.0035 | <0.0030 | 0.0030 | - |
| Beryllium | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | - |
| Bismuth | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | - |
| Cadmium | <0.00020 | <0.00020 | <0.00020 | <0.00020 | <0.00020 | - |
| Cobalt | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | - |
| Chromium | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | - |
| Copper | 0.0018 | 0.0015 | 0.0019 | 0.0016 | 0.0017 | - |
| Lithium | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - |
| Molybdenum | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | - |
| Nickel | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | - |
| Lead | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | - |
| Antimony | <0.00040 | <0.00040 | <0.00040 | <0.00040 | <0.00040 | - |
| Selenium | <0.0020 | <0.0020 | <0.0020 | <0.0020 | **0.0020** | - |

[1] Bold values exceed CMME Water Quality Guidelines for the Protection of Aquatic Life but reflect natural background lake levels for some parameters

| | | | | | | |
|---|---|---|---|---|---|---|
| Tin | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | - |
| Strontium | 0.0437 | 0.0408 | 0.0489 | 0.0436 | 0.0456 | - |
| Titanium | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | - |
| Thallium | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | - |
| Uranium | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | - |
| Vanadium | 0.0011 | <0.0010 | 0.0011 | 0.0011 | 0.0011 | - |
| Zinc | <0.0040 | <0.0040 | <0.0040 | <0.0040 | <0.0040 | - |

**Return water must be non-toxic, and not result in an increase in TSS in the immediate receiving waters above CCME Guidelines for the Protection of Freshwater Life (ie: 10mg/L for lakes with background levels under 100mg/L, or 10% for those above 10mg/L*

Table 3. Water Quality Monitoring for Post Ice Drilling on Patch Lake, June 2009

| **Parameters** | | | | | | **2BE-HOP0712** |
|---|---|---|---|---|---|---|
| Water Source | Patch Lake | Patch Lake | Patch Lake | Patch Lake | Patch Lake | Compliance Values[2] |
| Field Sample Details | Patch Lake 1B | Patch Lake 2B | Patch Lake 3B | Patch Lake 4B | Patch Lake 5B | Part F: Item 7 |
| Date | June 9/09 15:00 | June 9/09 14:45 | June 9/09 14:30 | June 9/09 14:15 | June 9/09 14:00 | |
| Geographical Coordinates | 68° 03.775'N 106° 33.944'W | 68° 03.488'N 106° 34.749'W | 68° 03.097'N 106° 33.718'W | 68° 02.632'N 106° 33.138'W | 68° 01.765'N 106°32.735'W | |
| ALS Lab Reference # | L775976-1 | L775976-2 | L775976-3 | L775976-4 | L775976-5 | |
| TSS | <3.0 | <3.0 | <3.0 | <3.0 | <3.0 | * |
| pH | 7.68 | 7.56 | 7.6 | 7.52 | 7.57 | - |
| Electrical Conductivity | 513 | 516 | 505 | 414 | 470 | - |
| Mercury | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | - |
| Iron | 0.0396 | 0.0506 | 0.0325 | 0.0330 | 0.0395 | - |
| Manganese | 0.0036 | 0.0062 | 0.0022 | 0.0020 | 0.0035 | - |
| Aluminium | **0.035** | **0.035** | **0.031** | **0.036** | **0.048** | - |
| Arsenic | 0.00083 | 0.00090 | 0.00087 | 0.00077 | 0.00089 | - |
| Barium | 0.0058 | 0.0062 | 0.0057 | 0.0047 | 0.0055 | - |
| Beryllium | <00010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | - |
| Bismuth | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | - |
| Cadmium | <0.00020 | <0.00020 | <0.00020 | <0.00020 | <0.00020 | - |
| Cobalt | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | - |
| Chromium | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | - |
| Copper | 0.0017 | 0.0018 | **0.0060** | 0.0015 | 0.0016 | - |
| Lithium | <0.010 | <0.010 | <0.010 | <0.010 | <0.010 | - |
| Molybdenum | <0.0050 | <0.0050 | <0.0050 | <0.0050 | <0.0050 | - |
| Nickel | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | - |
| Lead | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | - |
| Antimony | <0.00040 | <0.00040 | <0.00040 | <0.00040 | <0.00040 | - |
| Selenium | **0.0020** | **0.0020** | <0.0020 | <0.0020 | <0.0020 | - |
| Tin | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | - |
| Strontium | 0.113 | 0.118 | 0.111 | 0.0911 | 0.106 | - |
| Titanium | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | - |
| Thallium | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | - |
| Uranium | <0.00010 | <0.00010 | <0.00010 | <0.00010 | <0.00010 | - |
| Vanadium | <0.0010 | <0.0010 | 0.0017 | 0.0010 | 0.0011 | - |
| Zinc | <0.0040 | 0.0122 | <0.0040 | <0.0040 | <0.0040 | - |

[2] Bold values exceed CMME Water Quality Guidelines for the Protection of Aquatic Life but reflect natural background lake levels for some parameters

**Return water must be non-toxic, and not result in an increase in TSS in the immediate receiving waters above CCME Guidelines for the Protection of Freshwater Life (ie: 10mg/L for lakes with background levels under 100mg/L, or 10% for those above 10mg/L*

## 5. PART J: ITEM 6

Water for domestic use was not utilized from Windy Lake during June as the camp at Windy Lake is closed and modifications to the water supply system at the Doris Camp had been completed in May. Domestic usage for that location resumed from Doris Lake. Domestic water use from Doris Lake is reported under water licence 2AM-DOH0713 for June. Drill water usage numbers and water sources are detailed in Table 2.

Table 2. Domestic and Drill Water Usage in cubic meters ($m^3$), June 2009

| Parameters | GEO2 | GEO3 | ORB22 | ORB23 | ORB24 | Total Usage $m^3$ | 2BE-HOP0712 |
|---|---|---|---|---|---|---|---|
| Water Source | Patch Lake/Doris Lake | Doris Lake | Patch Lake | Doris Lake/Patch Lake | Patch Lake | All Water Sources | Compliance Values |
| Geographical Coordinates | On file | On file | On file | On file | On file | | Part J: Item 9 |
| Drilling days | 10 | 10 | 21 | 30 | 19 | | |
| Monthly Cumulative | 32 | 103 | 484 | 472 | 441 | 1532 | 3,100 $m^3$ monthly |
| Volume Average (Daily) | 3.16 | 10.57 | 15.6 | 15.24 | 14.22 | 58.79 | 100 $m^3$ daily |
| Maximum | 6.2 | 28 | 32 | 32 | 32 | - | 100 $m^3$ daily |
| Minimum | 0 | 0 | 0 | 0 | 0 | - | 100 $m^3$ daily |

Drill water usage volumes were in compliance for the month, though some readings per drill are still high. The method of tracking drill water usage has been found to be inconsistent between the two drill contractors on site, with some drill set-ups measuring only water consumed in drilling activities and returning clean unused water to the source, and others metering the total water circulating through the system, which is in excess of the water actually consumed for drilling purposes. HBML is working with the contractors to rectify this issue and to ensure consistency and accuracy in all numbers reported.

## 6. PART J: ITEM 7

No treated effluent was discharged from the WWTF at monitoring station HOP-2 due to the closure of Windy Lake Camp, and no volumes were measurable at HOP-3. The Landfarm no longer exists at HOP-4, and no volumes were pumped at HOP-5 during the month. At HOP-6, the volume of berm discharge was 88.2 $m^3$.

## 7. PART J: ITEM 8

No sludge was removed from the WWTF during the month of June as the facility is not operational.

## INCIDENT REPORTING

Two incidents were recorded pertaining to the licence during the period.

1. June 12/09 – Level 1 (Insignificant) Windy Fuel Farm berm HOP-5 filled with water from overland runoff over the top of the berm. Minor leakage occurred over the downslope edge of the berm. As samples from this berm were later tested and found to be non-compliant for discharge, this is being treated as an unauthorized release. The effluent was a minor overflow and did not reach any water course. The berm was temporarily emptied to holding tanks in the WWTF to lower the water level to prevent further overflows until the water could be treated.

2. June 17/09 – Level 1 (Insignificant) Inspection of all drill sites on Patch and Doris Lakes revealed small fluid spills and leaks of various types: some hydrocarbon based, some non-hydrocarbon-based (vegetable rod grease) Doris Lake = 4 sites, Patch Lake = 6 sites. Teams of workers were deployed to clean all drill holes using sorbent pads, and using water, sluiced as much residual material out of ice cracks as possible. Drill hole closure procedures will be reviewed to ensure more thorough post ice drilling clean-ups are undertaken when a drill has vacated the set-up.

Should there be any questions regarding the monthly report for June 2009, 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,

Christopher C. Hanks

Digitally signed by Christopher C. Hanks
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