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Technical Advisor – Mining
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Re: March 2010 –Monthly Monitoring Report for Water License 2AM-DOH0713

Following is the monthly report for March 2010 as required under Doris Water License No/Type 2AM-DOH0713 Type “A”. The license was issued on September 19, 2007 and will expire on September 30, 2013. The water license is specific for Mining and Milling and associated uses. The quantity of water usages shall not exceed 480,000 cubic meters annually.

This monthly report provides information on Part D (Conditions Applying to Construction) Item 19, Part E (Conditions applying to Water Use) Item 1, Part G (Conditions Applying to Waste Management and Waste Management Plans) Item 3 and 22 (e), and Part H (Conditions Applying to Modifications). The report also contains the relevant monitoring requirements as set out in Schedule J of the licence, plus additional requirements from INAC.

Other conditions stipulated in the license refer specially to mining and milling processes. These facilities have not been constructed at this time, due to the deferral of the Doris North Project by Hope Bay Mining Ltd. (HBML) and therefore, no monitoring has taken place to comply with conditions. The Nunavut Water Board (NWB) was notified of HBML’s intent to start the construction associated with the Doris North mining and milling facilities on October 29, 2009. As construction activities begin, the required monitoring programs will be implemented.

1. Part D: Item 19 Conditions Applying to Construction

No surface runoff from construction occurred for sampling during the period.

2. Part E: Item 1. Conditions Applying to Water Use

a. Water Usage

During the month of March 2010, Doris Camp was in operation for the entire month with water extraction occurring from Doris Lake via SNP Station ST-7, or by direct extraction by water truck from Doris and Patch Lakes to build ice road infrastructure to other locations within the project area. Water usage was in compliance with the licence for the month of March. Total water usage is detailed in Table 1.

Table 1. Water Usage for Domestic Camp Use, and Other Uses* in m³, March 2010

Parameters	Doris Camp Domestic and Other Use	2AM-DOH0713
Water Source	Doris Lake/Patch Lake	Compliance Values
Geographical Coordinates	On file	Part E: Item 1
Annual Cumulative	10,500.4	480,000 m ³ Annually
Monthly Cumulative	3,224.70	40,000 m ³ monthly
Volume Average (Daily)	104.02	1,333 m ³ daily
Maximum	264.14	1,333 m ³ daily
Minimum	16.31	1,333 m ³ daily

* Other uses include core cutting saws, fire truck filling, and Ice Road construction

b. Water Quality Monitoring: Schedule J and Special Requirements

Monthly compliance samples in accordance with Schedule J requirements of the licence were taken from monitoring station ST-7 on March 3/10. Sampling for cyanide is not presently being conducted at this monitoring station as no processes are occurring to generate cyanide at site. Results of the March monitoring are provided in Table 3.

Table 3. Monthly Compliance Sample Results for SNP Monitoring Station ST-7, March 2010

Parameter/SNP Sites	ST-7	Doris: 2AM-DOH0713
ALS Lab Reference #	L866446-1	Maximum Average Concentration (mg/L)
Field Sample Details	ST-7	Part G: Item 3
Sample Date/Time	Mar 3/10 @ 7:00am	No Requirement Specified
BOD	<5.0	-
Fecal Coliforms	<1	-
Total Oil and Grease	1.7	-
pH	7.54	-
TSS	4	-
Ammonia-N	0.062	-
Nitrate-N	<0.050	-
Nitrite-N	<0.050	-
Orthophosphate-P	<0.010	-
Total Phosphate (as P)	<0.020	-
Total Aluminium	<0.010	-
Total Arsenic	0.00055	-
Total Cadmium	<0.000050	-
Total Copper	0.0022	-
Total Chromium	<0.0050	-
Total Iron	0.046	-
Total Mercury	<0.00010	-
Total Molybdenum	<0.0050	-
Total Nickel	<0.0020	-
Total Lead	<0.00010	-
Total Selenium	<0.0020	-
Total Silver	<0.00010	-
Total Thallium	<0.00010	-
Total Zinc	<0.0040	-

Results of the technical review in April 2009 by INAC with regards to the Doris Camp planned water system modifications included recommendations for monthly reporting of sample analysis of the blue-green algae in the raw water from Doris Lake. Results of this sampling for March are provided in Table 4.

Table 4. Sampling Results for Blue-green Algae, March 2010

Parameter/SNP Site	ST-7
ALS Lab Reference #	L870029-1
Field Sample Details	PWQ-DC # 1
Sample Date/Time	Mar 17/10 @ 8:00am
Blue-green Algae	51, 400 cells/mL

3. Part G: Item 3(b) Conditions Applying to Waste Management and Waste Management Plans.

During the month of March 2010, water samples were collected once at monitoring station ST-8. Station ST-9 could not be sampled due to frozen conditions.

Sampling point ST-8 is located within the Doris Camp Sewage Treatment Plant, which is located directly east of the main building complex. Effluent samples were collected from a tap on the discharge line to the tundra at a location installed after the addition of a UV disinfection system (ST-8A). The data reported for March at SNP ST-8A is within compliance values for all parameters.

HBML acknowledges that discharge point ST-8 was originally intended to be a temporary discharge point that would be moved to the tailings storage facility after such a facility was constructed. HBML has deferred the construction of the tailings storage facility until a production decision is made by HBML. HBML proposes that the ST-8 discharge point remain until the tailings storage is constructed. To alleviate any risks associated with ponding and permafrost degradation HBML has proposed to build a diffuser during 2010. Designs will be prepared by a certified engineer and supplied prior to construction.

Table 5: Water Quality Data Summary for Monitoring Station ST-8A and ST-9, March 2010

Parameter/SNP Sites	ST-8A	ST-9	Doris: 2AM-DOH0713
ALS Lab Reference #	L866446-1		Maximum Average Concentration (mg/L)
Field Sample Details	ST-8A	ST-9	Part G: Item 3
Sample Date/Time	Mar 3/10 08:00am	-	(b)
BOD ₅	<5.0	-	80 mg/L
TSS (mg/L)	<1.0	-	100 mg/L
Fecal Coliform	<1	-	10,000 CFU/100mL
pH (pH unit)	6.13	-	Between 6-9
Oil & Grease (Visibility)	No visible sheen	-	No Visible Sheen
Oil & Grease (mg/L)	1.2	-	5

4. Part G: Item 22 (e) Conditions Applying to Waste Management and Waste Management Plans.

During the month of March 2010, there was no accumulated water and no discharge occurred at monitoring station ST-6 in the Robert's Bay Fuel Storage and Containment Area.

No monitoring was conducted at ST-5 (bulk fuel storage facility) at Doris Camp as there was no accumulation of water and no discharges occurred.

Part G: Conditions applying to Waste Management and Waste Management Plans (Item 3b)

a. Part G: Item 3e (Treated Sewage Effluent Release in cubic meters)

Table 5 shows treated effluent released from the Doris Membrane Plant at SNP ST-8.

Table 5: Treated Sewage Effluent release in cubic meters (m³) through Doris Membrane Plant (ST-8), March 2010

Parameters	Doris Membrane Plant ST-8
Annual Cumulative	1,463 m ³
Monthly Cumulative	600 m ³
Volume Average (Daily)	19.35 m ³
Maximum	24 m ³
Minimum	15 m ³

During the month of March, sludge was pressed 13 times from the membrane plant resulting in the removal of approx. 1.47 m³ of sludge from the plant. Sludge pressed was sent for incineration.

5. Environmental Incident Reporting

A total of 2 environmental incidents were reported during the month of March. A summary of these incidents is provided below:

- Mar 6/10 – Level 2 (Minor) Failed gasket on compressor on a water truck while watering ice road to “Portal Mountain” geotechnical drill targets leaked approx 20L of coolant (non-toxic). The truck was immediately moved on to an area of hard-packed snow/ice to mitigate leak. The contaminated snow was cleaned up and removed for disposal. The truck was removed from service for repairs.
- March 29/10 – Level 1 (Insignificant) Hydraulic hose developed a leak on a 730 haul truck, on the Doris-Windy All-weather Road. Approx 10 litres of hydraulic fluid leaked on the road. Spill was cleaned up with absorbent pads, and material scraped up and removed.

With respect to incidents reported last month, modifications were completed to the Doris Camp “D” wing lift stations to rectify the sewage overflows reported in February (Spill Report 10-028 and 10-048). Larger, sealed tanks with floats and alarms were installed for both lift stations in the camp. No further issues have arisen.

Should there be any questions regarding the monthly report for March 2010, please contact Chris Hanks, Director, Environment and Social Responsibility, Hope Bay Mining Limited on phone number: 1-720-917-4489 or email: Chris.Hanks@Newmont.com

Yours sincerely,

Bill Patterson

Environmental Affairs Manager

Hope Bay Mining Limited

On Behalf of

Chris Hanks

Director, Environment and Social Responsibility

Hope Bay Mining Limited