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Technical Advisor – Mining
Nunavut Water Board
P.O. Box 119
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Re: July 2010 –Monthly Monitoring Report for Water License 2AM-DOH0713

Following is the monthly report for July 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 July 2010, Doris Camp was in operation for the entire month with water extraction occurring from Doris Lake pumphouse via SNP Station ST-7, or by direct extraction by water truck from Doris Lake for other domestic uses and dust suppression on the road system. Water usage was in compliance with the licence for the month of July. Total water usage is detailed in Table 1.

Table 1. Water Usage for Domestic Camp Use, and Other Uses* in m^3, July 2010

Parameters	**Doris Camp Domestic and Other Uses**	**2AM-DOH0713**
Water Source	Doris Lake/Patch Lake	Compliance Values
Geographical Coordinates	On file	Part E: Item 1
Annual Cumulative	17,389.19*	480,000 m^3 Annually
Monthly Cumulative	919.32	40,000 m^3 monthly
Volume Average (Daily)	29.66	1,333 m^3 daily
Maximum	34.16	1,333 m^3 daily
Minimum	25.21	1,333 m^3 daily

** Other uses include core cutting saws, fire truck filling, wash car facilities, 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 July 02/10 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 July monitoring are provided in Table 2.

Table 2. Monthly Compliance Sample Results for SNP Monitoring Station ST-7, July 2010

Parameter/SNP Sites	**ST-7**	**Doris: 2AM-DOH0713**
ALS Lab Reference #	L-904254-1	Maximum Average Concentration (mg/L)
Field Sample Details	ST-7	Part G: Item 3
Sample Date/Time	July 02/10 @ 8:00	No Requirement Specified
BOD	<5.0	-
Fecal Coliforms	<1	-
Total Oil and Grease	2.3	-
pH	7.02	-
TSS	<3.0	-
Ammonia-N	<0.050	-
Nitrate-N	<0.050	-
Nitrite-N	<0.050	-
Orthophosphate-P	<0.010	-
Total Phosphate (as P)	<0.020	-
Total Aluminium	0.049	-
Total Arsenic	0.00052	-
Total Cadmium	<0.000050	-
Total Copper	0.0020	-
Total Chromium	<0.0050	-
Total Iron	0.183	-
Total Mercury	<0.00010	-
Total Molybdenum	<0.0050	-
Total Nickel	<0.0020	-
Total Lead	0.00013	-
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 July are provided in Table 3.

Table 3. Sampling Results for Blue-green Algae, July 2010

Parameter/SNP Site	ST-7
ALS Lab Reference #	L904254-1
Field Sample Details	ST-7
Sample Date/Time	July 02/10 @ 8:00
Blue-green Algae	87,100 cells/mL

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

During the month of July 2010, water samples were collected once at monitoring station ST-8.

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 July at SNP ST-8A is within compliance values for all parameters with the exception of pH. The STP operator has made some adjustments to bring the pH back to within acceptable parameters. Analytical results are provided in Table 4.

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 rock diffuser during 2010. Designs will be prepared by a certified engineer and supplied prior to construction.

Table 4: Water Quality Data Summary for Monitoring Station ST-8A, July 2010

Parameter/SNP Sites	ST-8A	Doris: 2AM-DOH0713
ALS Lab Reference #	L904254-2	Maximum Average Concentration (mg/L)
Field Sample Details	ST-8	Part G: Item 3
Sample Date/Time	July 2/10 @ 8:00	(b)
BOD_5	11.0	80 mg/L
TSS (mg/L)	<1.0	100 mg/L
Fecal Coliform	<1	10,000 CFU/100mL
pH (pH unit)	4.96	Between 6-9
Oil & Grease (Visibility)	No visible sheen	No Visible Sheen
Oil & Grease (mg/L)	<1.0	5

Station ST-9 was sampled during the month of July and the results are shown in Table 5.

Table 5: Water Quality Data Summary for Monitoring Station ST-9, July 2010

Parameter/SNP Sites	ST-9	Doris: 2AM-DOH0713
ALS Lab Reference #	L904254-3	Maximum Average Concentration (mg/L)
Field Sample Details	ST-9	Part G: Item 3
Sample Date/Time	July 2/10 @ 8:00	(b)
BOD_5	8.0	80 mg/L
TSS (mg/L)	<1.0	100 mg/L
Fecal Coliform	<1	10,000 CFU/100mL
pH (pH unit)	6.97	Between 6-9
Oil & Grease (Visibility)	No visible sheen	No Visible Sheen
Oil & Grease (mg/L)	<1.0	5

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

During the month of July 2010, discharge of accumulated water occurred at monitoring station ST-6 in the Robert's Bay Fuel Storage and Containment Area. Table 6 shows the results of the water discharged. 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.

Table 6: Results of Monitoring Program Station Sampling for ST-6, Robert's Bay Bulk Fuel Storage

Parameters	**ST-6**	**Hope Bay: 2AM-DOH0713**
Water Source	Bulk Fuel Storage Rob Bay	Monitoring Program Station Description (avg. conc or any grab)
ALS Lab Reference #	L907618-1	Compliance Values
Field Sample Details	ST-6	Part G: Item 22(e)
Sample Date/Time	July 9/10 @ 20:00 hrs	
pH	8.28	6.0-9.0
TSS	12.0	15 mg/L or 30 mg/L
Oil & Grease	< 1.0	5 mg/L
Benzene	< 0.00050	0.37 mg/L
Toluene	< 0.00050	0.002 mg/L
Ethylbenzene	<0.00050	0.090 mg/L
Lead	0.00012	0.01 mg/L or 0.02 mg/L

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

Table 7: Treated Sewage Effluent released in cubic meters (m^3) through Doris Membrane Plant (ST-8), July 2010

Parameters	**Doris Membrane Plant ST-8**
Annual Cumulative	4,554 m^3
Monthly Cumulative	822 m^3
Volume Average (Daily)	26.5 m^3
Maximum	32 m^3
Minimum	20 m^3

During the month of July, sludge was pressed 14 times from the membrane plant resulting in the removal of approx. 1.5 m^3 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 July. A summary of these incidents is provided below:

- July 20/10: (Insignificant) – A Helicopter was used to deter a grizzly bear in the Little Robert's outflow area that was within 700m of workers in the area. The bear was pushed by the helicopter using approved protocols for a distance of about 100m. The helicopter held back at that point, and the bear continued on in the desired direction.
- July 22/10: (Insignificant) – A Seal became entrapped in a fish trap set in Robert's Bay as part of a baseline study. The field crew cut open the net and freed the seal that swam away and appeared unharmed. The fish trap was removed from the water, repaired, and modifications made to prevent a similar occurrence.

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: 1-720-917-4489 or email: Chris.Hanks@Newmont.com

Yours sincerely,

Chris Hanks

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