

January 08, 2008

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

Re: December 2007–Monthly Monitoring Report for Water License 2BE-HOP0712

Following is the monthly report for December 2007 as required under Water license 2BE-HOP0712.

Monitoring Program

During the month of December 2007, 1 effluent sample was collected, as part of the monitoring program. No effluents were discharged from HOP-4, HOP-5 and HOP-6 during December. (No environmental personnel were available at Windy Lake Camp due to the closure of the 2007 exploration program).

As MHLB uses an external certified laboratory for carryout all the analyses and the sample sizes are quite small, MHLB uses the QAQC data produced by the laboratory to determine the accuracy and precision of the issued results. A summary of the monthly sampling for water license is provided in Table 1.

Table 1: SNP Water sampling summary

Station Number	Sampling Date	Lab Reference #	Comment and Lat./ Long. coordinates
HOP-1	Frozen	-	Windy Lake water Intake
HOP-2	December 10 2007	L586312-12	RBC surge Tank
HOP-3	Frozen	-	RBC effluent meets Windy Lake
HOP-4	No discharge	-	LTA effluent prior to release
HOP-5	No discharge	-	Effluent from Bulk fuel farm prior to release
HOP-6	No discharge	-	Patch Lake Fuel Farm Effluent

Water usage

During the month of December 2007, Windy camp was in operation for the whole month. No exploration drillings were conducted in the month. Water abstraction pumps were located at Windy Lake (HOP-1).

Table 2 provides the water volume usage as required under Part J, Item 6 of the water licenses.

Results

Water sampling and analysis results are provided in Table 3 for samples related to the SNP sampling requirements for the month of December 2007. The laboratory analytical results will be made available upon request.

Should there be any questions regarding the monthly report for December 2007, **please** contact Matthew Kawei, MHLB Exploration Senior Environmental Coordinator.

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Table 2: Water usage in cubic meters (m³) for Windy Lake Camp and Drill rig sites

Details	HOP-1	Remarks	Drills ¹	Remarks	Total	Remarks
Water Source	Windy Lake	Part C: Item 1	Patch Lake	Part C: Item 1	Windy Lake Camp & Drill Rigs	2BE-HOP0712: Compliance License
Monthly Cumulative	127.5	620	-	930	127.5	1550 m ³ monthly
Volume Average (Daily)	4.1	20	-	30	4.1	50 m ³ daily
Median	4.0	20	-	30	4.0	50 m ³ daily
Maximum	6.0	20	-	30	6.0	50 m ³ daily
Minimum	1.6	20	-	30	1.6	50 m ³ daily

Table 3: Effluent Discharge from the WWTF, from Monitoring Stations HOP-1, HOP-2 & HOP-3

Parameter	HOP-1	HOP-2	HOP-3	Hope Bay: 2BE-HOP0712
ALS Lab Reference #	-	L586312-1	-	Compliance Values
Field Sample Details	-	HOP-2	-	Part D: Item 10
Sample Date/Time	-	December 10 2007 @ 13:20	-	Part J: Item 2
Biochemical Oxygen Demand (BOD ₅)	Frozen	Not done	Frozen	80 mg/L
Total Suspended Solids (mg/L)	Frozen	220	Frozen	100 mg/L
Fecal Coliforms	Frozen	No done	Frozen	10 x 10 ⁴ CFU/100 mL
pH (pH unit)	Frozen	Not determined	Frozen	Between 6 and 9
Oil & Grease (Visibility)	Frozen	Not determined	Frozen	No visible Sheen

¹ Calculated (estimate of water consumed by drilling per day based on Boston License application (~ 2.5 m³/day)