



August 2, 2010

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**RE: Water License 2BB-MRY0710 Monthly SNP Report – June 2010**

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Following is the monthly report for June 2010 as required under Part I, Item 19 of Water License 2BB-MRY0710.

**SNP Sampling**

During the month of June 2010, samples were collected at MRY-4, MRY-6, and MRY-7, as part of the SNP sampling program. Table 1 presents a list of samples/monitoring required under the Water License and the details concerning which water quality samples have been collected along with sample date/lab identification number as appropriate. Analytical water quality testing results received as part of the SNP program, are presented in Table 2. Volumes consumed for domestic water purposes at Mary River have been collected and are attached in Table 3.

**SNP Results**

**A) Water Sampling and Analysis Results**

Table 2 provides the results related to SNP sampling requirements for June 2010.

**B) Flow and Volume Measurements**

Table 3 provides a breakdown of volume measurements as requested in Part I, Item 7 of the water license for June 2010.

We hope that the information provided in this monthly report is acceptable and should you have any questions regarding this report please contact Jim Millard at 902-403-1337 or by e-mail at [jim.millard@baffinland.com](mailto:jim.millard@baffinland.com).

Regards,

A handwritten signature in black ink, appearing to read "J. Millard", written over a horizontal line.

James Millard, M.Sc., P.Geo.  
Senior Environmental Superintendent

Attach: Tables 1, 2 and 3 (three pages)  
Cc: Bryan Rayner, Stephen Bathory QIA

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**Table 1: SNP Water Sampling Summary**

<b>SNP Station</b>	<b>Sampling Date</b>	<b>Lab ID#</b>	<b>Comment</b>
MRY-1	N/A	N/A	Volume reported daily
MRY-2	N/A	N/A	N/A for June
MRY-3	N/A	N/A	N/A for June
MRY-4	22-June-10		Volume reported daily
MRY-5	N/A	N/A	N/A for June
MRY-6	29-June-10	N/A	Pre-discharge sample
MRY-7	29-June-10	N/A	Pre-discharge samples
MRY-8 / 9	N/A	N/A	Run off was not observed during the June surveys.
MRY-10	N/A	N/A	Run off was not observed during the June surveys.
MRY-11	N/A	N/A	Run off was not observed during the June surveys.
MRY-12	N/A	N/A	Run off was not observed during the June surveys.

Table 2. Water Chemistry Results - June 2010						
Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
	MRY-4		Faecal Coliforms	0	CFU/100 ml	Exova Accutest
	MRY-4	22-Jun-10	Biological Oxygen Demand	3	mg/L	Exova Accutest
	MRY-4	22-Jun-10	pH	8.15	pH units	Exova Accutest
	MRY-4	22-Jun-10	Total Suspended Solids	5	mg/L	Exova Accutest
	MRY-4	22-Jun-10	Oil and Grease	<1	mg/L	Exova Accutest
	MRY-401	22-Jun-10	Faecal Coliforms	1	CFU/100 ml	Exova Accutest
	MRY-401	22-Jun-10	Biological Oxygen Demand	3	mg/L	Exova Accutest
	MRY-401	22-Jun-10	pH	8.17	pH units	Exova Accutest
	MRY-401	22-Jun-10	Total Suspended Solids	5	mg/L	Exova Accutest
	MRY-401	22-Jun-10	Oil and Grease	<1	mg/L	Exova Accutest
	MRY-6-1	29-Jun-10	Benzene	<0.5	ug/L	Exova Accutest
	MRY-6-1	29-Jun-10	Ethylbenzene	<0.5	ug/L	Exova Accutest
	MRY-6-1	29-Jun-10	Toluene	<0.5	ug/L	Exova Accutest
	MRY-6-1	29-Jun-10	Oil and Grease	<1	mg/L	Exova Accutest
	MRY-6-1	29-Jun-10	Lead	<0.001	mg/L	Exova Accutest
	MRY-7-1	29-Jun-10	Benzene	<0.5	ug/L	Exova Accutest
	MRY-7-1	29-Jun-10	Ethylbenzene	<0.5	ug/L	Exova Accutest
	MRY-7-1	29-Jun-10	Toluene	<0.5	ug/L	Exova Accutest
	MRY-7-1	29-Jun-10	Oil and Grease	<1	mg/L	Exova Accutest
	MRY-7-1	29-Jun-10	Lead	<0.001	mg/L	Exova Accutest
	MRY-7-2	29-Jun-10	Benzene	<0.5	ug/L	Exova Accutest
	MRY-7-2	29-Jun-10	Ethylbenzene	<0.5	ug/L	Exova Accutest
	MRY-7-2	29-Jun-10	Toluene	<0.5	ug/L	Exova Accutest
	MRY-7-2	29-Jun-10	Oil and Grease	<1	mg/L	Exova Accutest
	MRY-7-2	29-Jun-10	Lead	<0.001	mg/L	Exova Accutest
	MRY-7-3	29-Jun-10	Benzene	<0.5	ug/L	Exova Accutest
	MRY-7-3	29-Jun-10	Ethylbenzene	<0.5	ug/L	Exova Accutest
	MRY-7-3	29-Jun-10	Toluene	<0.5	ug/L	Exova Accutest
	MRY-7-3	29-Jun-10	Oil and Grease	<1	mg/L	Exova Accutest
	MRY-7-3	29-Jun-10	Lead	<0.001	mg/L	Exova Accutest
	MRY-7-4	29-Jun-10	Benzene	<0.5	ug/L	Exova Accutest
	MRY-7-4	29-Jun-10	Ethylbenzene	<0.5	ug/L	Exova Accutest
	MRY-7-4	29-Jun-10	Toluene	<0.5	ug/L	Exova Accutest
	MRY-7-4	29-Jun-10	Oil and Grease	<1	mg/L	Exova Accutest
	MRY-7-4	29-Jun-10	Lead	<0.001	mg/L	Exova Accutest
	MRY-7-5	29-Jun-10	Benzene	<0.5	ug/L	Exova Accutest
	MRY-7-5	29-Jun-10	Ethylbenzene	<0.5	ug/L	Exova Accutest
	MRY-7-5	29-Jun-10	Toluene	<0.5	ug/L	Exova Accutest
	MRY-7-5	29-Jun-10	Oil and Grease	<1	mg/L	Exova Accutest
	MRY-7-5	29-Jun-10	Lead	<0.001	mg/L	Exova Accutest

**Notes:** MRY-401 is a field duplicate of MRY-4.

MRY-6-1 is a pre-discharge sample.

MRY-7-1 to MRY-7-5, incl., are pre-discharge samples.

**Table 3: Flow and Volume Measurements-Part I Item 7 - June 2010**

<b>DATE</b>	<b>Camp Lake Freshwater Use (Mary River Camp) - Daily Potable Water (m<sup>3</sup>) - MRY-1</b>	<b>Camp Lake Daily Freshwater Use for Other Purposes - (m<sup>3</sup>) - MRY-1</b>	<b>Treated Sewage Effluent (m<sup>3</sup>) from WWTF to PWSP at Mary River Camp - MRY-4</b>	<b>Sewage Sludge Removed (m<sup>3</sup>) from Mary River WWTP</b>	<b>Daily Drill Water Use (m<sup>3</sup>) - Exploration</b>	<b>Treated Sewage Effluent (m<sup>3</sup>) from PWSP to Sheardown Lake (MRY-4a,b,c)</b>
1-Jun	11.0	5.1	11.0	0	0.0	0.0
2-Jun	0.0	0.0	0.0	0	0.0	0.0
3-Jun	0.0	3.5	0.0	0	0.0	0.0
4-Jun	25.0	7.5	25.0	0	0.0	0.0
5-Jun	0.0	12.5	0.0	0	0.0	0.0
6-Jun	15.0	13.0	15.0	0	0.0	0.0
7-Jun	4.0	17.0	4.0	0	0.0	0.0
8-Jun	0.0	20.0	0.0	0	0.0	0.0
9-Jun	14.5	18.5	14.5	0	0.0	0.0
10-Jun	0.0	26.0	0.0	0	0.0	0.0
11-Jun	7.0	22.5	7.0	0	0.0	0.0
12-Jun	13.6	10.9	13.6	0	0.0	0.0
13-Jun	0.0	12.0	0.0	0	0.0	0.0
14-Jun	12.9	10.5	12.9	0	0.0	0.0
15-Jun	0.0	10.0	0.0	0	0.0	0.0
16-Jun	19.6	0.0	19.6	0	0.0	0.0
17-Jun	0.0	0.0	0.0	0	0.0	0.0
18-Jun	21.0	9.0	21.0	0	0.0	0.0
19-Jun	0.0	0.0	0.0	0	0.0	0.0
20-Jun	19.3	9.7	19.3	0	7.6	0.0
21-Jun	13.6	0.0	13.6	0	30.3	0.0
22-Jun	0.0	0.0	0.0	0	56.6	0.0
23-Jun	24.1	0.0	24.1	0	68.1	0.0
24-Jun	16.3	0.0	16.3	0	83.6	0.0
25-Jun	0.0	0.0	0.0	0	24.5	0.0
26-Jun	29.8	0.0	29.8	0	106.2	0.0
27-Jun	0.0	6.0	0.0	0	159.4	0.0
28-Jun	0.0	0.0	0.0	0	114.7	0.0
29-Jun	34.2	0.0	34.2	0	153.4	0.0
30-Jun	0.0	0.0	0.0	0	187.3	0.0
<b>Total</b>	<b>280.7</b>	<b>213.5</b>	<b>280.7</b>	<b>0</b>	<b>991.7</b>	<b>0.0</b>

Notes:

WWTP - Waste Water Treatment Plant  
PWSP - Polishing Waste Stabilization Pond