



October 2, 2009

Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

Water Resources Officer, INAC
Nunavut District, Nunavut Region
P.O. Box 100
Iqaluit, NU X0A 0H0

RE: Water License 2BB-MRY0710 Monthly SNP Report – August 2009

Following is the monthly report for August 2009 as required under Part I, Item 19 of Water License 2BB-MRY0710.

SNP Sampling

During the month of August 2009, samples were collected at MRY-4, MRY-4b, MRY-4c (corresponding to treated discharge from PWSP No. 2, and PWSP No. 3, respectively), MRY-7 and MRY-10 as part of the SNP sampling program. Surveys were completed at MRY-8/9, MRY-11, and MRY-12 during August with no observable discharge/run off from these areas. 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 and acute toxicity testing results received as part of the SNP program are presented in Table 2. Volumes consumed for domestic water and exploration drilling 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 August 2009.

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 August 2009.

We hope that the information provided in this monthly report is acceptable and should you have any questions regarding this report please contact the undersigned at 403-450-8843 or by e-mail at jim.millard@baffinland.com.

Regards,

Jim Millard
Senior Environmental Superintendent

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

Attach: Tables 1, 2 and 3 (three pages)
Cc: Andrew Keim, INAC, Stephen Bathory QIA

Baffinland Iron Mines Corporation

Suite 1016 120 Adelaide Street West, Toronto, ON Canada M5H 1T1
Tel: +1 (416) 364-8820 • Fax: +1 (416) 364-0193
www.baffinland.com

Table 1: SNP Water Sampling Summary

SNP Station	Sampling Date	Lab ID#	Comment
MRY-1			Volume reported daily
MRY-2			N/A for August
MRY-3			N/A for August
MRY-4	10-Aug-09 31-Aug-09	735606, 735509 741119, 740983	Volume reported daily
MRY-4b MRY-4b01	23-Aug-09 23-Aug-09	739153, 739183 739154, 739184	Pre-discharge sample. MRY4b01 is a field duplicate of above.
MRY-4b	27-Aug-09 29-Aug-09 31-Aug-09	740376, 740389, 740382 740885, 740889 740932, 740982 740931	Volume reported daily
MRY-4c	18-Aug-09	738260, 738269	Pre-discharge sample
MRY-4c	23-Aug-09 24-Aug-09	739152 739408, 739456, 739409	Volume reported daily
MRY-5			N/A for August
MRY-6			N/A for August
MRY-7 Batch 3b	4-Aug-09	734502	
MRY-8 / 9			Run off was not observed during the August surveys.
MRY-10	18-Aug-09	738367	
MRY-11			Run off was not observed during the August surveys.
MRY-12			Run off was not observed during the August surveys.

Table 2. Water Chemistry Results - August 2009						
Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
735606	MRY-4	10-Aug-09	Faecal Coliforms	<10	ct/100 ml	Exova Accutest
735509	MRY-4	10-Aug-09	Acute Toxicity	not lethal		Exova
741119	MRY-4	31-Aug-09	Biological Oxygen Demand	20	mg/L	Exova Accutest
741119	MRY-4	31-Aug-09	pH	7.83	pH units	Exova Accutest
741119	MRY-4	31-Aug-09	Total Suspended Solids	23	mg/L	Exova Accutest
741119	MRY-4	31-Aug-09	Oil and Grease	1	mg/L	Exova Accutest
740983	MRY-4	31-Aug-09	Faecal Coliforms	0	ct/100 ml	Exova Accutest
739153	MRY-4b	23-Aug-09	Biological Oxygen Demand	6	mg/L	Exova Accutest
739153	MRY-4b	23-Aug-09	pH	7.44	pH units	Exova Accutest
739153	MRY-4b	23-Aug-09	Total Suspended Solids	13	mg/L	Exova Accutest
739153	MRY-4b	23-Aug-09	Oil and Grease	<1	mg/L	Exova Accutest
739183	MRY-4b	23-Aug-09	Faecal Coliforms	<10	ct/100 ml	Exova Accutest
739154	MRY-4b01	23-Aug-09	Biological Oxygen Demand	5	mg/L	Exova Accutest
739154	MRY-4b01	23-Aug-09	pH	7.47	pH units	Exova Accutest
739154	MRY-4b01	23-Aug-09	Total Suspended Solids	9	mg/L	Exova Accutest
739154	MRY-4b01	23-Aug-09	Oil and Grease	<1	mg/L	Exova Accutest
739184	MRY-4b01	23-Aug-09	Faecal Coliforms	<10	ct/100 ml	Exova Accutest
740376	MRY-4b	27-Aug-09	Biological Oxygen Demand	8	mg/L	Exova Accutest
740376	MRY-4b	27-Aug-09	pH	7.58	pH units	Exova Accutest
740376	MRY-4b	27-Aug-09	Total Suspended Solids	10	mg/L	Exova Accutest
740376	MRY-4b	27-Aug-09	Oil and Grease	<1	mg/L	Exova Accutest
740380	MRY-4b	27-Aug-09	Faecal Coliforms	<10	ct/100 ml	Exova Accutest
740382	MRY-4b	27-Aug-09	Acute Toxicity	not lethal		Exova
740885	MRY-4b	29-Aug-09	Biological Oxygen Demand	8	mg/L	Exova Accutest
740885	MRY-4b	29-Aug-09	pH	7.45	pH units	Exova Accutest
740885	MRY-4b	29-Aug-09	Total Suspended Solids	11	mg/L	Exova Accutest
740885	MRY-4b	29-Aug-09	Oil and Grease	2	mg/L	Exova Accutest
740889	MRY-4b	29-Aug-09	Faecal Coliforms	<10	ct/100 ml	Exova Accutest
740932	MRY-4b	31-Aug-09	Biological Oxygen Demand	8	mg/L	Exova Accutest
740932	MRY-4b	31-Aug-09	pH	7.56	pH units	Exova Accutest
740932	MRY-4b	31-Aug-09	Total Suspended Solids	16	mg/L	Exova Accutest
740932	MRY-4b	31-Aug-09	Oil and Grease	<1	mg/L	Exova Accutest
740982	MRY-4b	31-Aug-09	Faecal Coliforms	0	ct/100 ml	Exova Accutest
740931	MRY-4b	31-Aug-09	Acute Toxicity	not lethal		Exova
738260	MRY-4c	18-Aug-09	Biological Oxygen Demand	5	mg/L	Exova Accutest
738260	MRY-4c	18-Aug-09	pH	7.57	pH units	Exova Accutest
738260	MRY-4c	18-Aug-09	Total Suspended Solids	13	mg/L	Exova Accutest
738260	MRY-4c	18-Aug-09	Oil and Grease	<1	mg/L	Exova Accutest
738269	MRY-4c	18-Aug-09	Faecal Coliforms	0	ct/100 ml	Exova Accutest
739152	MRY-4c	23-Aug-09	Biological Oxygen Demand	4	mg/L	Exova Accutest
739152	MRY-4c	23-Aug-09	pH	7.54	pH units	Exova Accutest
739152	MRY-4c	23-Aug-09	Total Suspended Solids	10	mg/L	Exova Accutest
739152	MRY-4c	23-Aug-09	Oil and Grease	<1	mg/L	Exova Accutest
739408	MRY-4c	24-Aug-09	Biological Oxygen Demand	6	mg/L	Exova Accutest
739408	MRY-4c	24-Aug-09	pH	7.87	pH units	Exova Accutest
739408	MRY-4c	24-Aug-09	Total Suspended Solids	7	mg/L	Exova Accutest
739408	MRY-4c	24-Aug-09	Oil and Grease	<1	mg/L	Exova Accutest
739456	MRY-4c	24-Aug-09	Faecal Coliforms	<10	ct/100 ml	Exova Accutest
739409	MRY-4c	24-Aug-09	Acute Toxicity	not lethal		Exova
734502	MRY-7 Batch 3b	4-Aug-09	Ethylbenzene	<0.5	ug/L	Exova Accutest
734502	MRY-7 Batch 3b	4-Aug-09	Toluene	<0.5	ug/L	Exova Accutest
734502	MRY-7 Batch 3b	4-Aug-09	Benzene	<0.5	ug/L	Exova Accutest
734502	MRY-7 Batch 3b	4-Aug-09	Oil & Grease	8.0000	mg/L	Exova Accutest
734500	MRY-7 Batch 3b	4-Aug-09	Lead	<0.001	mg/L	Exova Accutest
738367	MRY-10	18-Aug-09	Total Arsenic	<0.10	ug/L	Exova Accutest
738367	MRY-10	18-Aug-09	Total Copper	1.37	ug/L	Exova Accutest
738367	MRY-10	18-Aug-09	Total Lead	0.27	ug/L	Exova Accutest
738367	MRY-10	18-Aug-09	Total Nickel	1.53	ug/L	Exova Accutest
738367	MRY-10	18-Aug-09	Total Zinc	1.6	ug/L	Exova Accutest
738367	MRY-10	18-Aug-09	Total Suspended Solids	2	mg/L	Exova Accutest
738367	MRY-10	18-Aug-09	Oil and Grease	no sheen		Field
738367	MRY-10	18-Aug-09	pH	7.75	pH units	Exova Accutest

Notes: Samples MRY-4b and MRY-4c correspond to Mary River Camp PWSP No. 2, and PWSP No. 3, respectively.

Table 3: Flow and Volume Measurements-Part I Item 7 - August 2009

DATE	Camp Lake Freshwater Use (Mary River Camp) - Daily Potable Water (m ³) - MRY-1	Camp Lake Daily Freshwater Use for Other Purposes - (m3) - MRY-1	Treated Sewage Effluent (m ³) from WWTF to PWSP at Mary River Camp - MRY-4	Sewage Sludge Removed (m ³) from Mary River WWTP	Daily Drill Water Use (m ³) - Exploration	Treated Sewage Effluent (m ³) from PWSP to Sheardown Lake (MRY-4a,b,c)	Treated Sewage Effluent (m ³) from PWSP to Milne Inlet (MRY-5a)
1-Aug	29.4	0.0	29.4	0	44.3	0.0	0.0
2-Aug	0.0	0.0	0.0	0	31.6	0.0	0.0
3-Aug	0.0	0.0	0.0	0	71.3	0.0	0.0
4-Aug	0.0	0.0	0.0	0	76.8	0.0	0.0
5-Aug	28.4	0.0	28.4	0	66.9	0.0	0.0
6-Aug	0.0	0.0	0.0	0	55.5	0.0	0.0
7-Aug	0.0	0.0	0.0	0	60.6	0.0	0.0
8-Aug	0.0	0.0	0.0	0	70.1	0.0	0.0
9-Aug	25.1	0.0	25.1	0	65.6	0.0	0.0
10-Aug	0.0	0.0	0.0	0	75.1	0.0	0.0
11-Aug	0.0	0.0	0.0	0	33.0	0.0	0.0
12-Aug	0.0	0.0	0.0	0	20.1	0.0	0.0
13-Aug	13.7	0.0	13.7	0	61.7	0.0	0.0
14-Aug	0.0	0.0	0.0	0	59.9	0.0	0.0
15-Aug	31.0	0.0	31.0	0	60.1	0.0	0.0
16-Aug	0.0	0.0	0.0	0	57.3	0.0	0.0
17-Aug	16.6	0.0	16.6	0	38.2	0.0	0.0
18-Aug	0.0	0.0	0.0	0	22.7	0.0	0.0
19-Aug	16.1	0.0	16.1	0	0.0	0.0	0.0
20-Aug	0.0	0.0	0.0	0	26.3	0.0	0.0
21-Aug	0.0	0.0	0.0	0	73.0	0.0	0.0
22-Aug	23.0	0.0	23.0	0	80.5	470.1	0.0
23-Aug	0.0	0.0	0.0	0	87.4	392.9	0.0
24-Aug	0.0	0.0	0.0	0	79.2	545.1	0.0
25-Aug	25.5	0.0	25.5	0	79.7	56.8	0.0
26-Aug	0.0	0.0	0.0	0	10.6	0.0	0.0
27-Aug	25.3	0.0	25.3	0	36.6	397.5	0.0
28-Aug	0.0	0.0	0.0	0	76.4	340.7	0.0
29-Aug	0.0	0.0	0.0	0	71.2	262.3	0.0
30-Aug	0.0	0.0	0.0	0	72.7	155.0	0.0
31-Aug	31.3	0.0	31.3	0	0.0	237.3	0.0
Total	234.0	0.0	234.0	0	1664.4	2857.7	0.0

Notes:

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