



June 30, 2013

Manager of Licensing  
Nunavut Water Board  
P.O. Box 119  
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Water Resources Officer, AANDC  
Nunavut District, Nunavut Region  
P.O. Box 100  
Iqaluit, NU X0A 0H0

**RE: Water License 2BB-MRY1114 Monthly SNP Report – May 2013**

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The following is the monthly report for May 2013 as required under Part I, Item 19 of Water License 2BB-MRY1114.

**SNP Sampling**

During the month of May 2013, samples were collected at MRY-4 as part of the SNP sampling program. The Milne Port RBC was in start-up mode during the latter part of May and the off spec treated sewage was discharged to PWSP No. 1 at the Mary River Mine Site. 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 and the volumes of treated sewage effluent discharged at Mary River Mine Site and Milne Inlet Site are attached in Table 3.

**SNP Results**

**A) Water Sampling and Analysis Results**

Table 2 provides the analytical results related to SNP sampling requirements for May 2013.

**B) Flow and Volume Measurements**

Table 3 provides a breakdown of volume measurements as requested in Part I, Item 9 of the water license for May 2013.

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(cell) / 647-693-9447(site) or by e-mail at jim.millard@baffinland.com.

Regards,

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

James Millard, M.Sc., P.Geo.  
Environmental Manager

Attach: Tables 1, 2 and 3 (three pages)

Cc: Andrew Keim (AANDC) and Stephen Bathory and Joel Fortier (QIA)

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**Table 1: SNP Water Sampling Summary for May 2013**

SNP Station	Sampling Date	Lab ID#	Comment
MRY-1	N/A	N/A	Volume reported daily
MRY-2	N/A	N/A	N/A – Water take location not active
MRY-3	N/A	N/A	N/A – Water take location not active
MRY-4	May 9, 2013	1027964, 1027960	Volume reported daily
MRY-401	May 9, 2013	1027965, 1027961	Volume reported daily
MRY-5	N/A	N/A	N/A - RBC in start-up mode
MRY-6	N/A	N/A	No discharge, frozen conditions
MRY-7	N/A	N/A	No discharge, frozen conditions
MRY-9	N/A	N/A	N/A – Frozen Conditions, no flow
MRY-10	N/A	N/A	N/A – Frozen Conditions, no flow
MRY-11	N/A	N/A	N/A – Frozen Conditions, no flow
MRY-12	N/A	N/A	N/A – Frozen Conditions, no flow
MRY-13A	N/A	N/A	N/A – Frozen Conditions, no flow
MRY-13B	N/A	N/A	N/A – Frozen Conditions, no flow

**Notes:**

MRY-9 is downstream of bulk sample pit/bench.

MRY-10 is downstream of bulk sample weathered ore/waste rock pile.

MRY-11 is downstream of bulk sample crusher area.

MRY-12 is downstream of bulk ore stockpile area at Milne Inlet.

MRY-13A and B are downstream of non-hazardous landfill facility.

MRY-401 is a duplicate sample of MRY-4 for QA/QC purposes.

**Table 2. Water Chemistry Results - May 2013**

<b>Sample Number</b>	<b>Sample ID</b>	<b>Date Sampled</b>	<b>Parameter Name</b>	<b>Result</b>	<b>Unit</b>	<b>Lab</b>
1027960	MRY - 4	09-May-13	Biochemical Oxygen Demand	6	mg/L	Exova Accutest
1027960	MRY - 4	09-May-13	Chemical Oxygen Demand	41	mg/L	Exova Accutest
1027964	MRY - 4	09-May-13	Faecal Coliforms	<10	mg/L	Exova Accutest
1027960	MRY - 4	09-May-13	Oil & Grease - Total	<1	mg/L	Exova Accutest
1027960	MRY - 4	09-May-13	Total Suspended Solids	10	mg/L	Exova Accutest
1027960	MRY - 4	09-May-13	pH	7.37	pH units	Exova Accutest
1027961	MRY - 401	09-May-13	Biochemical Oxygen Demand	6	mg/L	Exova Accutest
1027961	MRY - 401	09-May-13	Chemical Oxygen Demand	39	mg/L	Exova Accutest
1027965	MRY - 401	09-May-13	Faecal Coliforms	<10	mg/L	Exova Accutest
1027961	MRY - 401	09-May-13	Oil & Grease - Total	<1	mg/L	Exova Accutest
1027961	MRY - 401	09-May-13	Total Suspended Solids	8	mg/L	Exova Accutest
1027961	MRY - 401	09-May-13	pH	7.36	pH units	Exova Accutest

**Table 3: Flow and Volume Measurements-Part I Item 7 - May 2013**

DATE	Camp Lake Freshwater Use (Mary River Camp) - Daily Potable Water (m <sup>3</sup> ) - MRY-1	Camp Lake Daily Freshwater Use for Other Purposes - (m <sup>3</sup> ) - MRY-1	Camp Lake Freshwater Use (Trucked to Milne Inlet) - Daily Potable Water (m <sup>3</sup> ) - MRY- 1	Three Km Lake Steensby Inlet Daily Potable Water (m <sup>3</sup> )	Km 32 Lake Milne Inlet Camp Daily Potable Water (m <sup>3</sup> ) MRY-3	Treated Sewage Effluent (m <sup>3</sup> ) from WWTF to PWSP at Mary River Camp - MRY-4	Sewage Sludge Removed (m <sup>3</sup> ) from Mary River WWTP	Treated Sewage Effluent (m <sup>3</sup> ) from MRY-5 to PWSP1 at Mary River	Treated Sewage Effluent (m <sup>3</sup> ) from PWSP to Sheardown Lake (MRY-4a,b,c)
1-May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3-May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4-May	38.6	0.0	0.0	0.0	0.0	38.6	0.0	0.0	0.0
5-May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-May	18.5	0.0	0.0	0.0	0.0	18.5	0.0	0.0	0.0
7-May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-May	12.5	0.0	8.7	0.0	0.0	12.5	0.0	0.0	0.0
9-May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-May	24.6	0.0	8.2	0.0	0.0	24.6	0.0	0.0	0.0
12-May	0.0	0.0	7.6	0.0	8.2	0.0	0.0	0.0	0.0
13-May	0.0	0.0	0.0	0.0	8.2	0.0	0.0	0.0	0.0
14-May	27.3	0.0	0.0	0.0	8.2	27.3	0.0	0.0	0.0
15-May	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-May	0.0	3.8	0.0	0.0	8.2	0.0	0.0	0.0	0.0
17-May	26.1	3.8	0.0	0.0	0.0	26.1	0.0	0.0	0.0
18-May	30.7	9.5	0.0	0.0	8.2	30.7	0.0	0.0	0.0
19-May	0.0	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-May	15.9	9.5	0.0	0.0	8.2	15.9	0.0	0.0	0.0
21-May	6.4	11.4	0.0	0.0	0.0	6.4	0.0	8.2	0.0
22-May	0.0	11.4	0.0	0.0	0.0	0.0	8.0	8.2	0.0
23-May	0.0	11.4	0.0	0.0	8.2	0.0	0.0	8.2	0.0
24-May	25.7	11.4	0.0	0.0	0.0	25.7	8.0	8.2	0.0
25-May	15.1	11.4	0.0	0.0	8.2	15.1	0.0	8.2	0.0
26-May	0.0	11.4	0.0	0.0	8.2	0.0	0.0	8.2	0.0
27-May	17.0	9.5	0.0	0.0	8.2	17.0	0.0	8.2	0.0
28-May	0.0	7.6	0.0	0.0	0.0	0.0	0.0	8.2	0.0
29-May	22.0	9.5	16.4	0.0	0.0	22.0	0.0	8.2	0.0
30-May	0.0	5.7	8.2	0.0	0.0	0.0	0.0	8.2	0.0
31-May	0.0	0.0	16.4	0.0	0.0	0.0	0.0	8.2	0.0
<b>Total</b>	<b>280.5</b>	<b>136.3</b>	<b>65.5</b>	<b>0.0</b>	<b>82.0</b>	<b>280.5</b>	<b>16.0</b>	<b>90.2</b>	<b>0.0</b>

Notes:

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