



January 28, 2012

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-MRY1114 Monthly SNP Report – December 2012

The following is the monthly report for December 2012 as required under Part I, Item 19 of Water License 2BB-MRY1114.

SNP Sampling

During the month of December 2012, samples were collected at MRY-4 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 and the volumes of treated sewage effluent discharged at Mary River Camp 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 December 2012.

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 December 2012.

We trust 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'.

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

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

Cc: Melissa Joy (AANDC), Stephen Bathory and Joel Fortier (QIA)

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Table 1: SNP Water Sampling Summary for December 2012

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	November 13	1003890, 1003907	Volume reported daily
MRY-401	November 13	1003891, 1003908	Field Duplicate for MRY-4
MRY-402	November 13	1003892, 1003909	Field Blank for MRY-4
MRY-403	November 13	1003893, 1003910	Travel Blank for MRY-4
MRY-5	N/A	N/A	N/A - RBC not operating
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-8/9 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-11-TP1 corresponds to a crusher pit constructed sump.

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

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

Table 2. Water Chemistry Results - December 2012

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Unit	Lab
1003907	MRY - 4	13-Dec-12	Biochemical Oxygen Demand	<1	mg/L	Exova Accutest
1003907	MRY - 4	13-Dec-12	Chemical Oxygen Demand	10	mg/L	Exova Accutest
1003890	MRY - 4	13-Dec-12	Faecal Coliforms	0	mg/L	Exova Accutest
1003907	MRY - 4	13-Dec-12	Oil & Grease - Total	<1	mg/L	Exova Accutest
1003907	MRY - 4	13-Dec-12	Total Suspended Solids	5	mg/L	Exova Accutest
1003907	MRY - 4	13-Dec-12	pH	8.01	pH units	Exova Accutest
1003908	MRY - 401	13-Dec-12	Biochemical Oxygen Demand	<1	mg/L	Exova Accutest
1003908	MRY - 401	13-Dec-12	Chemical Oxygen Demand	8	mg/L	Exova Accutest
1003891	MRY - 401	13-Dec-12	Faecal Coliforms	0	mg/L	Exova Accutest
1003908	MRY - 401	13-Dec-12	Oil & Grease - Total	<1	mg/L	Exova Accutest
1003908	MRY - 401	13-Dec-12	Total Suspended Solids	4	mg/L	Exova Accutest
1003908	MRY - 401	13-Dec-12	pH	8.06	pH units	Exova Accutest
1003910	MRY - 402	13-Dec-12	Biochemical Oxygen Demand	<1	mg/L	Exova Accutest
1003910	MRY - 402	13-Dec-12	Chemical Oxygen Demand	<5	mg/L	Exova Accutest
1003892	MRY - 402	13-Dec-12	Faecal Coliforms	0	mg/L	Exova Accutest
1003910	MRY - 402	13-Dec-12	Oil & Grease - Total	<1	mg/L	Exova Accutest
1003910	MRY - 402	13-Dec-12	Total Suspended Solids	<2	mg/L	Exova Accutest
1003910	MRY - 402	13-Dec-12	pH	7.94	pH units	Exova Accutest
1003911	MRY - 403	13-Dec-12	Biochemical Oxygen Demand	<1	mg/L	Exova Accutest
1003911	MRY - 403	13-Dec-12	Chemical Oxygen Demand	<5	mg/L	Exova Accutest
1003893	MRY - 403	13-Dec-12	Faecal Coliforms	0	mg/L	Exova Accutest
1003911	MRY - 403	13-Dec-12	Oil & Grease - Total	<1	mg/L	Exova Accutest
1003911	MRY - 403	13-Dec-12	Total Suspended Solids	<2	mg/L	Exova Accutest
1003911	MRY - 403	13-Dec-12	pH	7.34	pH units	Exova Accutest

Notes: MRY-401 is a field duplicate of MRY-4
MRY-402 is a field blank of MRY-4
MRY-403 is a travel blank of MRY-4

Table 3: Flow and Volume Measurements-Part I Item 7 - December 2012

DATE	Camp Lake Freshwater Use (Mary River Camp) - Daily Potable Water (m ³) - MRY-1	Camp Lake Daily Freshwater Use for Other Purposes - (m ³) - MRY-1	Three Km Lake Steensby Inlet Daily Potable Water (m ³)	Km 32 Lake Milne Inlet Camp Daily Potable Water (m ³) MRY-3	Treated Sewage Effluent (m ³) from WWTF to PWSP at Mary River Camp - MRY-4	Sewage Sludge Removed (m ³) from Mary River WWTP	Treated Sewage Effluent (m ³) from PWSP to Sheardown Lake (MRY-4a,b,c)
1-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6-Dec	31.7	0.0	0.0	0.0	31.7	0.0	0.0
7-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11-Dec	8.1	0.0	0.0	0.0	8.1	0.0	0.0
12-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27-Dec	28.4	3.8	0.0	0.0	28.4	0.0	0.0
28-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31-Dec	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	68.1	3.8	0.0	0.0	68.1	0.0	0.0

Notes:

WWTP - Waste Water Treatment Plant

PWSP - Polishing Waste Stabilization Pond