



February 28, 2017

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 Licence 2AM-MRY1325 Monthly SNP Report – January 2017

The following is the monthly report for January 2017 as required under Part I, Item 21 Water Licence 2AM-MRY1325. Part I, Item 21 of the above referenced Water Licence states:

"The Licensee shall submit to the Board, within thirty (30) days following the month being reported, a Monthly Monitoring Report. The Report shall include:

- a. All data and information required by this Part and generated by the Monitoring Program in the tables of Schedule I;*
- b. An assessment of data to identified area of non-compliance with regulated discharge parameters referred to in Part F"*

Monitoring Program

During the month of January 2017, water samples were collected as part of the Water Licence Monitoring Program.

Table 1 presents a list of samples/monitoring required under the Water Licences and the details concerning which water quality samples were collected along with sample date/lab identification number as appropriate. Analytical water quality testing results received are presented in Table 2. Volumes consumed for domestic and industrial water purposes and the volumes of effluent discharged at the Mary River Mine Site and Milne Port Camp are presented in the attached Table 3.

Monitoring Program Results

A) Water Sampling and Analysis Results

Table 2 provides the analytical results related to the Monitoring Program sampling requirements for January 2017.

B) Flow and Volume Measurements

Table 3 provides a breakdown of volume measurements as requested in Part I, Item 9 of the Water Licence for January 2017. Daily flow data for runoff and seepage sites are being collected and will be provided in the annual report.

We hope that the information provided in this monthly report is acceptable and should you have any questions regarding this report please contact Allan Knight or William Bowden at 416-364-8820 ext 6016.

Regards,

Reviewed by:

Allan Knight,
Environmental Superintendent

William Bowden,
Environmental Superintendent

Attach: Tables 1, 2 and 3

Cc: Erik Allain, Jonathon Mesher, Sarah Forte (INAC); Todd Burlingame, Wayne McPhee, Sylvain Proulx, Robert Gagne, (Baffinland); Stephen Bathory (QIA)

Table 1: Monitoring Program Water Sampling Summary for January 2017

Monitoring Program Station	Sampling Date	Lab ID#	Comment
Milne Port			
MP-01 (Sewage Treatment Facility)	3-Jan-17	L1876935-1	Discharge volume reported daily
MP-01A (Milne Port PWSP)	N/A	N/A	Volume reported daily during discharge
MP-MRY-3 (Freshwater Intake from Km 32 Lake - Winter)	N/A	N/A	Volume reported daily during discharge
MP-MRY-04 (RBC at Exploration Camp)	N/A	N/A	Facility Inactive
MP-03 (Bulk Fuel Storage Facility Stormwater)	N/A	N/A	Volume reported daily during discharge
MP-04 (Landfarm Facility & Snow Containment Facility)	N/A	N/A	Volume reported daily during discharge
MP-05 (Ore Stockpile Sedimentation Pond (East))	N/A	N/A	Volume reported daily during discharge
MP-06 (Ore Stockpile Sedimentation Pond (West))	N/A	N/A	Volume reported daily during discharge
MP-MRY-12 (Bulk Sample Stockpile Area Seepage)	N/A	N/A	No flow, location is being retired due to lack of flow.
MP-C-A (Downstream of Construction Area)	N/A	N/A	No flow, location is being retired due to lack of flow.
MP-C-B (Downstream of Construction Area)	N/A	N/A	No flow during the month of January
MP-C-B01 (Downstream of Construction Area)	N/A	N/A	No flow during the month of January
MP-C-D (Downstream of Construction Area)	N/A	N/A	No flow during the month of January
MP-C-E (Downstream of Construction Area)	N/A	N/A	No flow during the month of January
MP-C-F (Downstream of Construction Area)	N/A	N/A	No flow during the month of January
MP-C-H (Downstream of Construction Area)	N/A	N/A	No flow during the month of January
MP-Q1-01 (Downstream of Q1 Quarry)	N/A	N/A	No flow during the month of January
MP-Q1-02 (Downstream of Q1 Quarry)	N/A	N/A	No flow during the month of January
Mary River Mine Site			

Monitoring Program Station	Sampling Date	Lab ID#	Comment
MS-01 (Sewage Treatment Facility)	3-Jan-17	L1876933-1	Discharge volume reported daily
MS-MRY-1 (Freshwater Intake from Camp Lake)	N/A	N/A	Withdrawal volume reported daily
MS-MRY-04 (Exploration Camp RBC)	N/A	N/A	Facility Inactive
MS-03 (Milne Site Bulk Fuel Storage Facility Stormwater)	N/A	N/A	Volume reported daily during discharge
MS-06 (Ore Stockpile Pond Stormwater)	N/A	N/A	Volume reported daily during discharge
MS-08 (Mine Waste Rock Stockpile pond)	N/A	N/A	Volume reported daily during discharge
MS-MRY-6 (Exploration Camp Bladder Farm Stormwater)	N/A	N/A	Volume reported daily during discharge
MS-MRY-09 (Bulk Sample Pit)	N/A	N/A	No flow during the month of January
MS-MRY-10 (Weathered Ore Bulk Sample Stockpile)	N/A	N/A	No flow during the month of January
MS-MRY-11 (Processing Bulk Sample Stockpile)	N/A	N/A	Area is being retired due to lack of flows
MS-MRY-13A (Downstream Non-Hazardous Landfill)	N/A	N/A	No flow during the month of January
MS-MRY-13B (Downstream Non-Hazardous Landfill)	N/A	N/A	No flow during the month of January
MS-C-A (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of January
MS-C-B (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of January
MS-C-C (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of January
MS-C-D (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of January
MS-C-E (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of January
MS-C-F (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of January
MS-C-G (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of January

Monitoring Program Station	Sampling Date	Lab ID#	Comment
MS-C-H (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow during the month of January
MQ-C-A (Downstream of QMR2 Quarry)	N/A	N/A	No flow during the month of January
MQ-C-B (Downstream of QMR2 Quarry)	N/A	N/A	No flow during the month of January
MQ-C-D (Downstream of QMR2 Quarry)	N/A	N/A	No flow during the month of January
MQ-C-E (Downstream of D1Q2 Quarry)	N/A	N/A	No flow during the month of January
Steensby Port			
Steensby Exploration Camp is presently not active.			

Table 2. Water Chemistry Results - January 2017						
Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
MILNE PORT SITE						
L1876935-1	MP-01	3-Jan-17	pH	7.58	pH units	ALS
L1876935-1	MP-01	3-Jan-17	Total Suspended Solids	8.7	mg/L	ALS
L1876935-1	MP-01	3-Jan-17	Ammonia, Total (as N)	0.243	mg/L	ALS
L1876935-1	MP-01	3-Jan-17	Total Phosphorus	11.2	mg/L	ALS
L1876935-1	MP-01	3-Jan-17	Fecal Coliforms	0	CFU/100mL	ALS
L1876935-1	MP-01	3-Jan-17	Biochemical Oxygen Demand	2.8	mg/L	ALS
L1876935-1	MP-01	3-Jan-17	Oil & Grease - Total	<2.0	mg/L	ALS
MARY RIVER MINE SITE						
L1876933-1	MS-01	3-Jan-17	pH	7.65	pH units	ALS
L1876933-1	MS-01	3-Jan-17	Total Suspended Solids	2.9	mg/L	ALS
L1876933-1	MS-01	3-Jan-17	Ammonia, Total (as N)	0.068	mg/L	ALS
L1876933-1	MS-01	3-Jan-17	Total Phosphorus	1.02	mg/L	ALS
L1876933-1	MS-01	3-Jan-17	Fecal Coliforms	2	CFU/100mL	ALS
L1876933-1	MS-01	3-Jan-17	Biochemical Oxygen Demand	3	mg/L	ALS
L1876933-1	MS-01	3-Jan-17	Oil & Grease - Total	<2.0	mg/L	ALS
Notes:						

Table 3: Flow and Volume Measurements-Part I Item 11 - January 2017

DATE	Camp Lake Freshwater Use (Mine Site Camp) - Daily Potable Water (m³) MS-MRY-1	Km 32 Lake Milne Port Camp Daily Potable Water (m³) MP-MRY-3	Treated Sewage Effluent (m³) from MS-01 to Discharge Location #1	Sewage Sludge Removed (m³) from Mine Site WWTP to Incinerator	Sewage Sludge Removed (m³) from Mine Site WWTP to PWSP at Mine Site - MS- MRY-4a	Sewage Sludge Removed (m³) from Lift Stations to PWSP at Mine Site - MS-MRY-4a	Treated Sewage Effluent (m³) from MP-01 to Milne Port	Sewage Sludge Removed (m³) from Milne Port WWTP to Incinerator	Sewage Removed (m³) from Lift Stations to PWSP at Milne Port - MP-01a
1-Jan	44.4	34.8	44.4	0.5	0.0	0.0	34.8	0.2	4.6
2-Jan	55.1	17.4	55.1	0.5	0.0	0.0	17.4	0.0	0.0
3-Jan	63.3	17.4	63.3	0.5	0.0	0.0	17.4	0.2	0.0
4-Jan	49.8	17.4	49.8	0.4	0.0	0.0	17.4	0.2	0.0
5-Jan	60.9	17.4	60.9	0.4	0.0	0.0	17.4	0.3	0.0
6-Jan	75.2	34.8	75.2	0.3	0.0	0.0	34.8	0.3	0.0
7-Jan	31.2	17.4	31.2	0.3	0.0	0.0	17.4	0.5	0.0
8-Jan	90.0	34.8	90.0	0.0	0.0	3.0	34.8	0.0	0.0
9-Jan	74.9	17.4	74.9	0.0	5.0	3.0	17.4	0.7	0.0
10-Jan	76.8	34.8	76.8	0.4	0.0	0.0	34.8	0.7	0.0
11-Jan	49.2	0.0	49.2	0.2	0.0	2.0	0.0	0.7	0.0
12-Jan	62.2	49.2	62.2	0.0	0.0	3.0	49.2	0.0	0.0
13-Jan	84.7	17.4	84.7	0.0	0.0	3.0	17.4	0.3	0.0
14-Jan	37.7	17.4	37.7	0.4	0.0	0.0	17.4	0.3	0.0
15-Jan	53.9	17.4	53.9	0.3	0.0	0.0	17.4	0.4	0.0
16-Jan	71.8	17.4	71.8	0.3	0.0	0.0	17.4	0.3	0.0
17-Jan	42.0	17.4	42.0	0.4	0.0	0.0	17.4	0.3	0.0
18-Jan	44.9	0.0	44.9	0.4	0.0	0.0	0.0	0.4	0.0
19-Jan	42.4	52.2	42.4	0.0	0.0	0.0	52.2	0.3	0.0
20-Jan	58.3	34.8	58.3	0.4	0.0	0.0	34.8	0.2	0.0
21-Jan	82.8	17.4	82.8	0.4	0.0	0.0	17.4	0.1	0.0
22-Jan	62.4	0.0	62.4	0.4	0.0	0.0	0.0	0.2	0.0
23-Jan	39.1	52.2	39.1	0.3	0.0	0.0	52.2	0.1	0.0
24-Jan	73.1	34.8	73.1	0.5	0.0	0.0	34.8	0.0	0.0
25-Jan	50.4	34.8	50.4	0.4	0.0	0.0	34.8	0.3	0.0
26-Jan	35.0	34.8	35.0	0.4	0.0	0.0	34.8	0.3	0.0
27-Jan	67.3	34.8	67.3	0.4	0.0	0.0	34.8	0.3	0.0
28-Jan	57.8	52.2	57.8	0.4	0.0	0.0	52.2	0.3	0.0
29-Jan	83.1	52.2	83.1	0.5	0.0	0.0	52.2	0.3	0.0
30-Jan	54.6	34.8	54.6	0.4	0.0	3.1	34.8	0.3	0.0
31-Jan	50.9	52.2	50.9	0.5	0.0	0.0	52.2	0.2	0.0
Total	1824.9	867.6	1824.9	10.1	5.0	17.1	867.6	8.7	4.6

Notes:

WWTP - Waste Water Treatment Plant

PWSP - Polishing Waste Stabilization Pond