



June 30, 2015

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

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

RE: Water License 2AM-MRY1325 Monthly SNP Report – May 2015

The following is the monthly report for May 2015 as required under Part I, Item 21 Water License 2AM-MRY1325. Part I, Item 21 of the above referenced Water Licence state:

"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 May 2015, samples were collected at MP-01 and MS-01 as part of the Water Licence Monitoring Program.

Due to frozen conditions, samples were not collected downstream of construction areas and quarry monitoring locations at the Mine Site (MS-C and MQ-C sites) and Milne Port (MP-C and MP-Q1 sites) as part of the Aquatics Effects and Monitoring Program under Schedule I of Water Licence 2AM-MRY1325 in May 2015.

Table 1 presents a list of samples/monitoring required under the Water Licenses 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 are presented in Table 2. Volumes consumed for domestic water purposes and the volumes of treated sewage effluent and sewage sludge discharged at Mary River Mine Site and Milne Port Camp are presented in 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 May 2015.

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 2015. 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 the undersigned or Allan Knight at 647-253-0596 ext: 6010 or Jim Millard at ext: 6016.

Regards,

A handwritten signature in black ink, appearing to read "Trevor Myers".

Trevor Myers, B.A.(Hon.), M.Sc.
Environmental Superintendent

Reviewed by:

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

Attach: Tables 1, 2 and 3

Cc: Justin Hack, Erik Allain (AANDC), Justin Buller (QIA)

Table 1: Monitoring Program Water Sampling Summary for May 2015

Monitoring Program Station	Sampling Date	Lab ID#	Comment
Milne Port			
MP-01 (Sewage Treatment Facility)	May 6, 2015 May 20, 2015	L1608003-1 L1614440-1	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	Withdrawal volume Reported Daily
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-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 Quarry Area)	N/A	N/A	No flow, frozen conditions
MP-C-B01 (Downstream of Quarry Area)	N/A	N/A	No flow, frozen conditions
MP-C-B0101 (Duplicate of MP-C-B01)	N/A	N/A	No flow, frozen conditions
MP-C-H (Downstream of Construction Area)	N/A	N/A	No flow, frozen conditions
MP-Q1-01 (Downstream of Q1 Quarry)	N/A	N/A	No flow, frozen conditions
MP-Q1-02 (Downstream of Q1 Quarry)	N/A	N/A	No flow, frozen conditions
Mary River Mine Site			
MS-01 (Sewage Treatment Facility)	May 6, 2015 May 20, 2015	L1607559-1 L1614435-1	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-MRY-04A (Exploration Camp PWSP #1)	N/A	N/A	Volume Reported Daily during discharge
MS-03 (Milne Site Bulk Fuel Storage Facility Stormwater)	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, frozen conditions

Monitoring Program Station	Sampling Date	Lab ID#	Comment
MS-MRY-10 (Weathered Ore Bulk Sample Stockpile)	N/A	N/A	No flow, frozen conditions
MS-MRY-11 (Processing Bulk Sample Stockpile)	N/A	N/A	No flow, frozen conditions
MS-MRY-13A (Downstream Non-Hazardous Landfill)	N/A	N/A	No flow, frozen conditions
MS-MRY-13B (Downstream Non-Hazardous Landfill)	N/A	N/A	No flow, frozen conditions
MS-C-A (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-B (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-C (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-D (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-E (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-F (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-G (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MS-C-H (Downstream of Construction and Borrow Areas)	N/A	N/A	No flow, frozen conditions
MQ-C-A (Downstream of QMR2 Quarry)	N/A	N/A	No flow, frozen conditions
MQ-C-B (Downstream of QMR2 Quarry)	N/A	N/A	No flow, frozen conditions
MQ-C-D (Downstream of QMR2 Quarry)	N/A	N/A	No flow, frozen conditions
Steensby Port			
Steensby Exploration Camp closed for the season			

Table 2. Water Chemistry Results - May 2015

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
MILNE PORT SITE						
L1608003-1	MP-01	6-May-15	pH	7.36	mg/L	ALS
L1608003-1	MP-01	6-May-15	Total Suspended Solids	<2.0	mg/L	ALS
L1608003-1	MP-01	6-May-15	N-NH3 (Ammonia)	0.057	mg/L	ALS
L1608003-1	MP-01	6-May-15	Total Kjeldahl Nitrogen	<0.15	mg/L	ALS
L1608003-1	MP-01	6-May-15	Total Phosphorus	13.3	mg/L	ALS
L1608003-1	MP-01	6-May-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1608003-1	MP-01	6-May-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1608003-1	MP-01	6-May-15	Oil & Grease - Total	<4.0	mg/L	ALS
L1614440-1	MP-01	20-May-15	pH	7.53	mg/L	ALS
L1614440-1	MP-01	20-May-15	Total Suspended Solids	<2.0	mg/L	ALS
L1614440-1	MP-01	20-May-15	N-NH3 (Ammonia)	0.052	mg/L	ALS
L1614440-1	MP-01	20-May-15	Total Kjeldahl Nitrogen	1.16	mg/L	ALS
L1614440-1	MP-01	20-May-15	Total Phosphorus	14.2	mg/L	ALS
L1614440-1	MP-01	20-May-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1614440-1	MP-01	20-May-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1614440-1	MP-01	20-May-15	Oil & Grease - Total	<6.0	mg/L	ALS
MARY RIVER MINE SITE						
L1607559-1	MS-01	6-May-15	pH	7.20	mg/L	ALS
L1607559-1	MS-01	6-May-15	Total Suspended Solids	<2.0	mg/L	ALS
L1607559-1	MS-01	6-May-15	N-NH3 (Ammonia)	0.228	mg/L	ALS
L1607559-1	MS-01	6-May-15	Total Kjeldahl Nitrogen	0.41	mg/L	ALS
L1607559-1	MS-01	6-May-15	Total Phosphorus	0.826	mg/L	ALS
L1607559-1	MS-01	6-May-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1607559-1	MS-01	6-May-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1607559-1	MS-01	6-May-15	Oil & Grease - Total	<6.0	mg/L	ALS
L1614435-1	MS-01	20-May-15	pH	7.13	mg/L	ALS
L1614435-1	MS-01	20-May-15	Total Suspended Solids	<2.0	mg/L	ALS
L1614435-1	MS-01	20-May-15	N-NH3 (Ammonia)	0.361	mg/L	ALS
L1614435-1	MS-01	20-May-15	Total Kjeldahl Nitrogen	1.41	mg/L	ALS
L1614435-1	MS-01	20-May-15	Total Phosphorus	0.277	mg/L	ALS
L1614435-1	MS-01	20-May-15	Faecal Coliforms	0	CFU/100 mL	ALS
L1614435-1	MS-01	20-May-15	Biochemical Oxygen Demand	<2.0	mg/L	ALS
L1614435-1	MS-01	20-May-15	Oil & Grease - Total	<6.0	mg/L	ALS

Notes:

Table 3: Flow and Volume Measurements-Part I Item 11 - May 2015

DATE	Camp Lake Freshwater Use (Mine Site Camp) - Daily Potable Water (m3) - MRY- 1	Camp Lake Daily Freshwater Use for Other Purposes - (m ³) - MRY-1	Km 32 Lake Milne Port Camp Daily Potable Water (m3) MP-MRY-3	Km 32 Lake Milne Port Camp Fresh Water Use for Other Purposes (m3) MP-MRY-3	Treated Sewage Effluent (m ³) from MS-01 to Discharge Location #1	Sewage Sludge Removed (m3) from Mine Site WWTP	Treated Sewage Effluent (m3) from MP-01 to Milne Port	Sewage Sludge Removed (m3) from Milne Port WWTP
1-May	30.2	0.0	30.3	0.0	30.2	0.3	30.3	0.0
2-May	72.9	0.0	30.3	0.0	72.9	0.2	30.3	0.3
3-May	42.5	0.0	30.3	0.0	42.5	0.3	30.3	0.0
4-May	41.1	0.0	37.9	0.0	41.1	0.3	37.9	0.4
5-May	67.0	0.0	45.4	0.0	67.0	0.3	45.4	0.0
6-May	35.2	0.0	45.4	0.0	35.2	0.3	45.4	0.3
7-May	54.3	0.0	41.6	0.0	54.3	0.3	41.6	0.0
8-May	35.2	0.0	30.3	0.0	35.2	0.4	30.3	0.3
9-May	58.6	0.0	37.9	0.0	58.6	0.4	37.9	0.0
10-May	31.2	0.0	7.6	0.0	31.2	0.4	7.6	0.3
11-May	38.5	0.0	30.3	0.0	38.5	0.4	30.3	0.3
12-May	102.0	0.0	30.3	0.0	102.0	0.4	30.3	0.0
13-May	56.6	0.0	30.3	0.0	56.6	0.4	30.3	0.3
14-May	45.1	0.0	45.4	0.0	45.1	0.4	45.4	0.0
15-May	49.8	0.0	15.1	0.0	49.8	0.4	15.1	0.0
16-May	64.6	0.0	60.6	0.0	64.6	0.4	60.6	0.3
17-May	51.2	0.0	15.1	0.0	51.2	0.4	15.1	0.0
18-May	104.0	0.0	45.4	0.0	104.0	0.4	45.4	0.3
19-May	27.8	0.0	30.3	0.0	27.8	0.6	30.3	0.0
20-May	106.3	0.0	45.4	0.0	106.3	0.6	45.4	0.0
21-May	64.1	0.0	30.3	0.0	64.1	0.4	30.3	0.3
22-May	41.8	0.0	45.4	0.0	41.8	0.3	45.4	0.0
23-May	56.8	0.0	45.4	0.0	56.8	0.4	45.4	0.0
24-May	79.5	0.0	41.6	0.0	79.5	0.4	41.6	0.3
25-May	48.2	0.0	45.4	0.0	48.2	0.4	45.4	0.3
26-May	89.5	0.5	45.4	0.0	89.5	0.3	45.4	0.0
27-May	55.3	0.0	45.4	0.0	55.3	0.3	45.4	0.3
28-May	50.3	0.0	45.4	0.0	50.3	0.3	45.4	0.3
29-May	38.4	0.0	45.4	0.0	38.4	0.3	45.4	0.0
30-May	73.6	0.0	30.3	0.0	73.6	0.3	30.3	0.3
31-May	75.4	0.0	30.3	0.0	75.4	0.3	30.3	0.0
Total	1787.0	0.5	1135.6	0.0	1787.0	10.1	1135.6	4.6

Notes:

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