



October 30, 2014

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 – September 2014

The following is the monthly report for September 2014 as required under Part I, Item 21 Water License 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 September 2014, samples were collected at MP-01, MP-01A, MS-01, MS-MRY-09, MS-MRY-10, MS-MRY-11 and MS-MRY-13A & B as part of the Water Licence Monitoring Program.

In addition, samples were 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 September 2014.

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 September 2014.

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 September 2014. 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 Jim Millard at 902-403-1337(cell) / 647-253-0596 ext:6016 (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

Cc: Robert Savard, Justin Hack, and Erik Allain (AANDC), Stephen Bathory (QIA)

Table 1: Monitoring Program Water Sampling Summary for September 2014

Monitoring Program Station	Sampling Date	Lab ID#	Comment
Milne Port			
MP-01 (Sewage Treatment Facility)	September 2, 2014 September 9, 2014 September 16, 2014 September 23, 2014 September 30, 2014	1130366, 1130371 1132587, 1132591 1134120, 1134123 1135624, 1135626 1137191, 1137193	Discharge volume reported daily
MP-0101	September 9, 2014	1132588, 1132592	
MP-0102	September 16, 2014	1134121, 1134124	
MP-0103	September 9, 2014	1132589, 1132593	
MP-01A (Milne Port PWSP)	August 27, 2014 September 7, 2014	1129680 1132598, 1132599	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)	September 1, 2014 September 8, 2014	1130468 1132571, LH14-041-12	
MP-C-B01 (Downstream of Quarry Area)	September 1, 2014 September 8, 2014	1130469 1132572	
MP-C-B0101 (Duplicate of MP-C-B01)	September 1, 2014	1130470	
MP-C-H (Downstream of Construction Area)	September 1, 2014 September 8, 2014	1130471 1132570	
MP-Q1-01 (Downstream of Q1 Quarry)	September 1, 2014 September 8, 2014	1130466 1132568	
MP-Q1-02 (Downstream of Q1 Quarry)	September 1, 2014 September 8, 2014	1130467 1132569	
Mary River Mine Site			
MS-01 (Sewage Treatment Facility)	September 2, 2014 September 16, 2014 September 23, 2014 September 30, 2014	1130380, 1130382 1134113, 1134115 1135584, 1135586 1137184, 1137188	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 #2)	N/A	N/A	Volume Reported Daily during discharge

Monitoring Program Station	Sampling Date	Lab ID#	Comment
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)	September 1, 2014	1130530, 1130579	
MS-MRY-10 (Weathered Ore Bulk Sample Stockpile)	September 1, 2014	1130531, 1130580	
MS-MRY-11 (Processing Bulk Sample Stockpile)	September 1, 2014	1130532, 1130581 LH14-041-11	
MS-MRY-13A (Downstream Non-Hazardous Landfill)	September 1, 2014	1130514, 1130520	
MS-MRY-13B (Downstream Non-Hazardous Landfill)	September 1, 2014	1130514, 1130521	
MS-C-A (Downstream of Construction and Borrow Areas)	September 1, 2014 September 8, 2014	1130450 1132574	
MS-C-B (Downstream of Construction and Borrow Areas)	September 1, 2014 September 8, 2014	1130451 1132575	
MS-C-C (Downstream of Construction and Borrow Areas)	September 1, 2014 September 8, 2014	1130452 1132576	
MS-C-D (Downstream of Construction and Borrow Areas)	September 1, 2014 September 8, 2014	1130453 1132577	
MS-C-E (Downstream of Construction and Borrow Areas)	September 1, 2014 September 8, 2014 September 15, 2014	1130454 1132578 1134106	
MS-C-F (Downstream of Construction and Borrow Areas)	September 1, 2014 September 8, 2014	1130455 1132579	
MS-C-F-01 (Duplicate of MS-C-F)	September 1, 2014	1130458	
MS-C-G (Downstream of Construction and Borrow Areas)	September 1, 2014 September 8, 2014 September 15, 2014	1130456 1132580 1134107	
MS-C-G-01 (Duplicate of MS-C-G)	September 8, 2014	1132582	
MS-C-H (Downstream of Construction and Borrow Areas)	September 1, 2014 September 8, 2014	1130457 1132581	
MQ-C-A (Downstream of QMR2 Quarry)	September 1, 2014 September 8, 2014	1130357 1132583	
MQ-C-B (Downstream of QMR2 Quarry)	September 1, 2014 September 8, 2014	1130358, LH14-041-10 1132584	
MQ-C-D (Downstream of QMR2 Quarry)	September 1, 2014 September 8, 2014	1130359 1132584	
Steensby Port			
Steensby Exploration Camp closed for the season			

Table 2. Water Chemistry Results - September 2014

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
MILNE PORT						
1130371	MP-01	2-Sep-14	Biochemical Oxygen Demand	3	mg/L	Exova
1130366	MP-01	2-Sep-14	Faecal Coliforms	7	ct/100mL	Exova
1130371	MP-01	2-Sep-14	Total Kjeldahl Nitrogen	2.3	mg/L	Exova
1130371	MP-01	2-Sep-14	N-NH3 (Ammonia)	0.56	mg/L	Exova
1130371	MP-01	2-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130371	MP-01	2-Sep-14	Total Suspended Solids	5	mg/L	Exova
1130371	MP-01	2-Sep-14	pH	7.31	pH units	Exova
1132591	MP-01	9-Sep-14	Biochemical Oxygen Demand	1	mg/L	Exova
1132587	MP-01	9-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132591	MP-01	9-Sep-14	Total Kjeldahl Nitrogen	5.34	mg/L	Exova
1132591	MP-01	9-Sep-14	N-NH3 (Ammonia)	3.90	mg/L	Exova
1132591	MP-01	9-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132591	MP-01	9-Sep-14	Total Suspended Solids	2	mg/L	Exova
1132591	MP-01	9-Sep-14	pH	7.86	pH units	Exova
1134123	MP-01	16-Sep-14	Biochemical Oxygen Demand	4	mg/L	Exova
1134120	MP-01	16-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1134123	MP-01	16-Sep-14	Total Kjeldahl Nitrogen	0.83	mg/L	Exova
1134123	MP-01	16-Sep-14	N-NH3 (Ammonia)	0.38	mg/L	Exova
1134123	MP-01	16-Sep-14	Oil & Grease - Total	3	mg/L	Exova
1134123	MP-01	16-Sep-14	Total Suspended Solids	4	mg/L	Exova
1134123	MP-01	16-Sep-14	pH	7.55	pH units	Exova
1135624	MP-01	23-Sep-14	Biochemical Oxygen Demand	5	mg/L	Exova
1135626	MP-01	23-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1135624	MP-01	23-Sep-14	Total Kjeldahl Nitrogen	1.13	mg/L	Exova
1135624	MP-01	23-Sep-14	N-NH3 (Ammonia)	0.27	mg/L	Exova
1135624	MP-01	23-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1135624	MP-01	23-Sep-14	Total Suspended Solids	4	mg/L	Exova
1135624	MP-01	23-Sep-14	pH	7.71	pH units	Exova
1137193	MP-01	30-Sep-14	Biochemical Oxygen Demand	1	mg/L	Exova
1137190	MP-01	30-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1137193	MP-01	30-Sep-14	Total Kjeldahl Nitrogen	1.45	mg/L	Exova
1137193	MP-01	30-Sep-14	N-NH3 (Ammonia)	0.21	mg/L	Exova
1137193	MP-01	30-Sep-14	Oil & Grease - Total	1	mg/L	Exova
1137193	MP-01	30-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1137193	MP-01	30-Sep-14	pH	7.83	pH units	Exova
1132592	MP-0101	9-Sep-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1132588	MP-0101	9-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132592	MP-0101	9-Sep-14	Total Kjeldahl Nitrogen	5.70	mg/L	Exova
1132592	MP-0101	9-Sep-14	N-NH3 (Ammonia)	4.02	mg/L	Exova
1132592	MP-0101	9-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132592	MP-0101	9-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132592	MP-0101	9-Sep-14	pH	7.83	pH units	Exova
1134124	MP-0102	16-Sep-14	Biochemical Oxygen Demand	<2	mg/L	Exova
1134121	MP-0102	16-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1134124	MP-0102	16-Sep-14	Total Kjeldahl Nitrogen	0.14	mg/L	Exova
1134124	MP-0102	16-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1134124	MP-0102	16-Sep-14	Oil & Grease - Total	2	mg/L	Exova
1134124	MP-0102	16-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1134124	MP-0102	16-Sep-14	pH	6.04	pH units	Exova
1132593	MP-0103	9-Sep-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1132589	MP-0103	9-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132593	MP-0103	9-Sep-14	Total Kjeldahl Nitrogen	<0.10	mg/L	Exova
1132593	MP-0103	9-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1132593	MP-0103	9-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132593	MP-0103	9-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132593	MP-0103	9-Sep-14	pH	6.10	pH units	Exova
1129680	MP-01a	27-Aug-14	Biochemical Oxygen Demand	82	mg/L	Exova
1129680	MP-01a	27-Aug-14	Total Kjeldahl Nitrogen	19.5	mg/L	Exova
1129680	MP-01a	27-Aug-14	N-NH3 (Ammonia)	0.32	mg/L	Exova
1129680	MP-01a	27-Aug-14	Oil & Grease - Total	<1	mg/L	Exova
1129680	MP-01a	27-Aug-14	Total Suspended Solids	104	mg/L	Exova
1132599	MP-01a	7-Sep-14	Biochemical Oxygen Demand	36	mg/L	Exova
1132598	MP-01a	7-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1132599	MP-01a	7-Sep-14	Total Kjeldahl Nitrogen	20.2	mg/L	Exova
1132599	MP-01a	7-Sep-14	N-NH3 (Ammonia)	0.41	mg/L	Exova
1132599	MP-01a	7-Sep-14	Oil & Grease - Total	2	mg/L	Exova
1132599	MP-01a	7-Sep-14	Total Suspended Solids	112	mg/L	Exova
1132599	MP-01a	7-Sep-14	pH	9.37	pH units	Exova
1130466	MP-Q1-01	1-Sep-14	pH	8.1	pH units	Exova
1130466	MP-Q1-01	1-Sep-14	Total Suspended Solids	2	mg/L	Exova
1130466	MP-Q1-01	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132568	MP-Q1-01	8-Sep-14	Conductivity	352	uS/cm	Exova
1132568	MP-Q1-01	8-Sep-14	N-NO3	0.62	mg/L	Exova
1132568	MP-Q1-01	8-Sep-14	pH	8.15	pH units	Exova
1132568	MP-Q1-01	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132568	MP-Q1-01	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova

1132568	MP-Q1-01	8-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1130467	MP-Q1-02	1-Sep-14	pH	8.06	pH units	Exova
1130467	MP-Q1-02	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130467	MP-Q1-02	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132569	MP-Q1-02	8-Sep-14	Conductivity	513	uS/cm	Exova
1132569	MP-Q1-02	8-Sep-14	N-NO3	11.4	mg/L	Exova
1132569	MP-Q1-02	8-Sep-14	pH	8.09	pH units	Exova
1132569	MP-Q1-02	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132569	MP-Q1-02	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132569	MP-Q1-02	8-Sep-14	N-NH3 (Ammonia)	0.81	mg/L	Exova
1130468	MP-C-B	1-Sep-14	pH	8.29	pH units	Exova
1130468	MP-C-B	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130468	MP-C-B	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132571	MP-C-B	8-Sep-14	Conductivity	485	uS/cm	Exova
1132571	MP-C-B	8-Sep-14	N-NO3	0.98	mg/L	Exova
1132571	MP-C-B	8-Sep-14	pH	8.27	pH units	Exova
1132571	MP-C-B	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132571	MP-C-B	8-Sep-14	Oil & Grease - Total	4	mg/L	Exova
1132571	MP-C-B	8-Sep-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
LH14-041-12	MP-C-B	8-Sep-14	Toxicity	non-lethal*	mg/L	Exova
1130469	MP-C-B01	1-Sep-14	pH	8.30	pH units	Exova
1130469	MP-C-B01	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130469	MP-C-B01	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130470	MP-C-B0101	1-Sep-14	pH	8.3	pH units	Exova
1130470	MP-C-B0101	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130470	MP-C-B0101	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132572	MP-C-B01	8-Sep-14	Conductivity	452	uS/cm	Exova
1132572	MP-C-B01	8-Sep-14	N-NO3	1.38	mg/L	Exova
1132572	MP-C-B01	8-Sep-14	pH	8.29	pH units	Exova
1132572	MP-C-B01	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132572	MP-C-B01	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132572	MP-C-B01	8-Sep-14	N-NH3 (Ammonia)	0.05	mg/L	Exova
1130471	MP-C-H	1-Sep-14	pH	8.31	pH units	Exova
1130471	MP-C-H	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130471	MP-C-H	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1126114	MP-C-H	8-Sep-14	Conductivity	301	uS/cm	Exova
1126114	MP-C-H	8-Sep-14	N-NO3	0.15	mg/L	Exova
1126114	MP-C-H	8-Sep-14	pH	8.24	pH units	Exova
1126114	MP-C-H	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1126114	MP-C-H	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1126114	MP-C-H	8-Sep-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
MARY RIVER MINE SITE						
1130382	MS-01	2-Sep-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1130380	MS-01	2-Sep-14	Faecal Coliforms	1	ct/100mL	Exova
1130382	MS-01	2-Sep-14	Total Kjeldahl Nitrogen	0.99	mg/L	Exova
1130382	MS-01	2-Sep-14	N-NH3 (Ammonia)	0.35	mg/L	Exova
1130382	MS-01	2-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130382	MS-01	2-Sep-14	Total Phosphorus	0.71	mg/L	Exova
1130382	MS-01	2-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130382	MS-01	2-Sep-14	pH	7.58	pH units	Exova
1134115	MS-01	16-Sep-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1134113	MS-01	16-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1134115	MS-01	16-Sep-14	Total Kjeldahl Nitrogen	2.12	mg/L	Exova
1134115	MS-01	16-Sep-14	N-NH3 (Ammonia)	0.32	mg/L	Exova
1134115	MS-01	16-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1134115	MS-01	16-Sep-14	Total Phosphorus	0.88	mg/L	Exova
1134115	MS-01	16-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1134115	MS-01	16-Sep-14	pH	7.23	pH units	Exova
1135584	MS-01	23-Sep-14	Biochemical Oxygen Demand	1	mg/L	Exova
1135586	MS-01	23-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1135584	MS-01	23-Sep-14	Total Kjeldahl Nitrogen	0.50	mg/L	Exova
1135584	MS-01	23-Sep-14	N-NH3 (Ammonia)	0.27	mg/L	Exova
1135584	MS-01	23-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1135584	MS-01	23-Sep-14	Total Phosphorus	0.29	mg/L	Exova
1135584	MS-01	23-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1135584	MS-01	23-Sep-14	pH	7.50	pH units	Exova
1137188	MS-01	30-Sep-14	Biochemical Oxygen Demand	2	mg/L	Exova
1137184	MS-01	30-Sep-14	Faecal Coliforms	0	ct/100mL	Exova
1137188	MS-01	30-Sep-14	Total Kjeldahl Nitrogen	1.33	mg/L	Exova
1137188	MS-01	30-Sep-14	N-NH3 (Ammonia)	0.36	mg/L	Exova
1137188	MS-01	30-Sep-14	Oil & Grease - Total	1	mg/L	Exova
1137188	MS-01	30-Sep-14	Total Phosphorus	0.31	mg/L	Exova
1137188	MS-01	30-Sep-14	Total Suspended Solids	5	mg/L	Exova
1137188	MS-01	30-Sep-14	pH	7.59	pH units	Exova
1130530	MS-MRY-9	1-Sep-14	pH	7.46	pH units	Exova
1130579	MS-MRY-9	1-Sep-14	Total Arsenic	<0.1	ug/L	Exova

1130579	MS-MRY-9	1-Sep-14	Total Copper	0.6	ug/L	Exova
1130579	MS-MRY-9	1-Sep-14	Total Lead	0.16	ug/L	Exova
1130579	MS-MRY-9	1-Sep-14	Total Nickel	<0.5	ug/L	Exova
1130579	MS-MRY-9	1-Sep-14	Total Zinc	3	ug/L	Exova
1130530	MS-MRY-9	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130530	MS-MRY-9	1-Sep-14	Oil & Grease - Total	-	mg/L	Exova
1130531	MS-MRY-10	1-Sep-14	pH	8.06	pH units	Exova
1130580	MS-MRY-10	1-Sep-14	Total Arsenic	<0.1	ug/L	Exova
1130580	MS-MRY-10	1-Sep-14	Total Copper	0.8	ug/L	Exova
1130580	MS-MRY-10	1-Sep-14	Total Lead	0.06	ug/L	Exova
1130580	MS-MRY-10	1-Sep-14	Total Nickel	<0.5	ug/L	Exova
1130580	MS-MRY-10	1-Sep-14	Total Zinc	5	ug/L	Exova
1130531	MS-MRY-10	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130531	MS-MRY-10	1-Sep-14	Oil & Grease - Total	-	mg/L	Exova
1130534	MS-MRY-11-TP3	1-Sep-14	pH	8.20	pH units	Exova
1130583	MS-MRY-11-TP3	1-Sep-14	Total Arsenic	<0.1	ug/L	Exova
1130583	MS-MRY-11-TP3	1-Sep-14	Total Copper	1	ug/L	Exova
1130583	MS-MRY-11-TP3	1-Sep-14	Total Lead	<0.05	ug/L	Exova
1130583	MS-MRY-11-TP3	1-Sep-14	Total Nickel	0.9	ug/L	Exova
1130583	MS-MRY-11-TP3	1-Sep-14	Total Zinc	<3	ug/L	Exova
1130534	MS-MRY-11-TP3	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130534	MS-MRY-11-TP3	1-Sep-14	Oil & Grease - Total	-	mg/L	Exova
LH14-041-11	MS-MRY-11-TP3	1-Sep-14	Toxicity	non-lethal*	mg/L	Exova
1130514	MS-MRY-13A	1-Sep-14	pH	8.24	pH units	Exova
1130520	MS-MRY-13A	1-Sep-14	Total Arsenic	0.2	ug/L	Exova
1130520	MS-MRY-13A	1-Sep-14	Total Copper	2.2	ug/L	Exova
1130520	MS-MRY-13A	1-Sep-14	Total Lead	0.15	ug/L	Exova
1130520	MS-MRY-13A	1-Sep-14	Total Nickel	11.4	ug/L	Exova
1130520	MS-MRY-13A	1-Sep-14	Total Zinc	3	ug/L	Exova
1130514	MS-MRY-13A	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130514	MS-MRY-13A	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130515	MS-MRY-13B	1-Sep-14	pH	8.27	pH units	Exova
1130521	MS-MRY-13B	1-Sep-14	Total Arsenic	<0.1	ug/L	Exova
1130521	MS-MRY-13B	1-Sep-14	Total Copper	1.4	ug/L	Exova
1130521	MS-MRY-13B	1-Sep-14	Total Lead	<0.05	ug/L	Exova
1130521	MS-MRY-13B	1-Sep-14	Total Nickel	6.3	ug/L	Exova
1130521	MS-MRY-13B	1-Sep-14	Total Zinc	<3	ug/L	Exova
1130515	MS-MRY-13B	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130515	MS-MRY-13B	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130357	MQ-C-A	1-Sep-14	pH	7.45	pH units	Exova
1130357	MQ-C-A	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130357	MQ-C-A	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132583	MQ-C-A	8-Sep-14	Conductivity	310	uS/cm	Exova
1132583	MQ-C-A	8-Sep-14	N-NO3	<0.10	mg/L	Exova
1132583	MQ-C-A	8-Sep-14	pH	8.22	pH units	Exova
1132583	MQ-C-A	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132583	MQ-C-A	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132583	MQ-C-A	8-Sep-14	N-NH3 (Ammonia)	0.14	mg/L	Exova
1130358	MQ-C-B	1-Sep-14	pH	8.02	pH units	Exova
1130358	MQ-C-B	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130358	MQ-C-B	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
LH14-041-10	MQ-C-B	1-Sep-14	Toxicity	non-lethal*	mg/L	Exova
1132584	MQ-C-B	8-Sep-14	Conductivity	507	uS/cm	Exova
1132584	MQ-C-B	8-Sep-14	N-NO3	1.31	mg/L	Exova
1132584	MQ-C-B	8-Sep-14	pH	8.15	pH units	Exova
1132584	MQ-C-B	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132584	MQ-C-B	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132584	MQ-C-B	8-Sep-14	N-NH3 (Ammonia)	0.48	mg/L	Exova
1130359	MQ-C-D	1-Sep-14	pH	8.09	pH units	Exova
1130359	MQ-C-D	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130359	MQ-C-D	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132585	MQ-C-D	8-Sep-14	Conductivity	429	uS/cm	Exova
1132585	MQ-C-D	8-Sep-14	N-NO3	1.19	mg/L	Exova
1132585	MQ-C-D	8-Sep-14	pH	8.18	pH units	Exova
1132585	MQ-C-D	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132585	MQ-C-D	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132585	MQ-C-D	8-Sep-14	N-NH3 (Ammonia)	0.56	mg/L	Exova
1130450	MS-C-A	1-Sep-14	pH	8.18	pH units	Exova
1130450	MS-C-A	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130450	MS-C-A	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132574	MS-C-A	8-Sep-14	Conductivity	175	uS/cm	Exova
1132574	MS-C-A	8-Sep-14	N-NO3	0.18	mg/L	Exova
1132574	MS-C-A	8-Sep-14	pH	7.95	pH units	Exova
1132574	MS-C-A	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132574	MS-C-A	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132574	MS-C-A	8-Sep-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1130451	MS-C-B	1-Sep-14	pH	7.96	pH units	Exova
1130451	MS-C-B	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130451	MS-C-B	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova

1132575	MS-C-B	8-Sep-14	Conductivity	189	uS/cm	Exova
1132575	MS-C-B	8-Sep-14	N-NO3	0.4	mg/L	Exova
1132575	MS-C-B	8-Sep-14	pH	7.90	pH units	Exova
1132575	MS-C-B	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132575	MS-C-B	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132575	MS-C-B	8-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1130452	MS-C-C	1-Sep-14	pH	8.11	pH units	Exova
1130452	MS-C-C	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130452	MS-C-C	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132576	MS-C-C	8-Sep-14	Conductivity	625	uS/cm	Exova
1132576	MS-C-C	8-Sep-14	N-NO3	7.98	mg/L	Exova
1132576	MS-C-C	8-Sep-14	pH	8.06	pH units	Exova
1132576	MS-C-C	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132576	MS-C-C	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132576	MS-C-C	8-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova
1130453	MS-C-D	1-Sep-14	pH	8.39	pH units	Exova
1130453	MS-C-D	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130453	MS-C-D	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132577	MS-C-D	8-Sep-14	Conductivity	642	uS/cm	Exova
1132577	MS-C-D	8-Sep-14	N-NO3	10.1	mg/L	Exova
1132577	MS-C-D	8-Sep-14	pH	8.30	pH units	Exova
1132577	MS-C-D	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132577	MS-C-D	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132577	MS-C-D	8-Sep-14	N-NH3 (Ammonia)	0.07	mg/L	Exova
1130454	MS-C-E	1-Sep-14	pH	8.22	pH units	Exova
1130454	MS-C-E	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130454	MS-C-E	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132578	MS-C-E	8-Sep-14	Conductivity	419	uS/cm	Exova
1132578	MS-C-E	8-Sep-14	N-NO3	3.55	mg/L	Exova
1132578	MS-C-E	8-Sep-14	pH	8.15	pH units	Exova
1132578	MS-C-E	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132578	MS-C-E	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132578	MS-C-E	8-Sep-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1134106	MS-C-E	15-Sep-14	pH	7.90	pH units	Exova
1134106	MS-C-E	15-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1134106	MS-C-E	15-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1130455	MS-C-F	1-Sep-14	pH	8.13	pH units	Exova
1130455	MS-C-F	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130455	MS-C-F	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132579	MS-C-F	8-Sep-14	Conductivity	189	uS/cm	Exova
1132579	MS-C-F	8-Sep-14	N-NO3	0.2	mg/L	Exova
1132579	MS-C-F	8-Sep-14	pH	8.09	pH units	Exova
1132579	MS-C-F	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132579	MS-C-F	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132579	MS-C-F	8-Sep-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1130458	MS-C-F-01	1-Sep-14	pH	8.08	pH units	Exova
1130458	MS-C-F-01	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130458	MS-C-F-01	1-Sep-14	Oil & Grease - Total	3	mg/L	Exova
1130456	MS-C-G	1-Sep-14	pH	7.94	pH units	Exova
1130456	MS-C-G	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130456	MS-C-G	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132580	MS-C-G	8-Sep-14	Conductivity	191	uS/cm	Exova
1132580	MS-C-G	8-Sep-14	N-NO3	0.11	mg/L	Exova
1132580	MS-C-G	8-Sep-14	pH	7.97	pH units	Exova
1132580	MS-C-G	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132580	MS-C-G	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132580	MS-C-G	8-Sep-14	N-NH3 (Ammonia)	0.16	mg/L	Exova
1134107	MS-C-G	15-Sep-14	pH	7.88	pH units	Exova
1134107	MS-C-G	15-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1134107	MS-C-G	15-Sep-14	Oil & Grease - Total	2	mg/L	Exova
1132582	MS-C-G-01	8-Sep-14	Conductivity	189	uS/cm	Exova
1132582	MS-C-G-01	8-Sep-14	N-NO3	<0.10	mg/L	Exova
1132582	MS-C-G-01	8-Sep-14	pH	8.08	pH units	Exova
1132582	MS-C-G-01	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132582	MS-C-G-01	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132582	MS-C-G-01	8-Sep-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1130457	MS-C-H	1-Sep-14	pH	8.22	pH units	Exova
1130457	MS-C-H	1-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1130457	MS-C-H	1-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132581	MS-C-H	8-Sep-14	Conductivity	232	uS/cm	Exova
1132581	MS-C-H	8-Sep-14	N-NO3	<0.10	mg/L	Exova
1132581	MS-C-H	8-Sep-14	pH	8.16	pH units	Exova
1132581	MS-C-H	8-Sep-14	Total Suspended Solids	<2	mg/L	Exova
1132581	MS-C-H	8-Sep-14	Oil & Grease - Total	<1	mg/L	Exova
1132581	MS-C-H	8-Sep-14	N-NH3 (Ammonia)	0.04	mg/L	Exova

Note: Acute lethality to Rainbow trout, *Oncorhynchus mykiss* (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/13)
Acute lethality to *Daphnia magna* (as per Environment Canada's Environmental Protection Series Method EPS/1/RM/14)

Table 3: Flow and Volume Measurements-Part I Item 11 - September 2014

DATE	Camp Lake Freshwater Use (Mine Site Camp) - Daily Potable Water (m3) - MRY-1	Camp Lake Daily Freshwater Use for Other Purposes - (m³) - 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	Milne Pond Fresh Water Use for Construction Purposes (m3) MP-MRY-3	Treated Sewage Effluent (m³) 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	Treated Sewage Effluent (m³) from PWSP to Ocean (MP-01a)
1-Sep	49.1	15.1	45.4	0.0	30.3	49.1	0.5	45.4	0.0	0.0
2-Sep	40.7	7.6	30.3	0.0	30.3	40.7	0.5	30.3	0.2	0.0
3-Sep	50.6	15.1	30.3	0.0	30.3	50.6	0.5	30.3	0.0	0.0
4-Sep	59.1	14.0	45.4	0.0	30.3	59.1	0.5	45.4	0.0	0.0
5-Sep	86.5	34.4	56.8	3.8	30.3	86.5	1.0	56.8	0.0	0.0
6-Sep	41.0	0.9	60.6	0.0	30.3	41.0	0.0	60.6	0.2	96.0
7-Sep	56.4	14.6	45.4	0.0	30.3	56.4	0.5	45.4	0.2	353.0
8-Sep	53.7	18.4	45.4	0.0	30.3	53.7	0.5	45.4	0.2	135.0
9-Sep	49.5	0.0	45.4	0.0	30.3	49.5	0.0	45.4	0.3	0.0
10-Sep	59.2	0.0	45.4	0.0	30.3	59.2	0.0	45.4	0.3	0.0
11-Sep	52.8	12.9	30.3	0.0	30.3	52.8	0.0	30.3	0.3	0.0
12-Sep	42.5	0.0	45.4	0.0	30.3	42.5	0.0	45.4	0.3	0.0
13-Sep	47.8	19.3	30.3	0.0	30.3	47.8	0.5	30.3	0.4	0.0
14-Sep	35.6	0.0	75.7	0.0	30.3	35.6	0.8	75.7	0.3	0.0
15-Sep	57.6	0.0	45.4	0.0	30.3	57.6	0.0	45.4	0.4	0.0
16-Sep	19.5	12.4	45.4	0.0	15.1	19.5	0.8	45.4	0.3	0.0
17-Sep	56.3	12.5	60.6	0.0	15.1	56.3	0.5	60.6	0.3	0.0
18-Sep	56.8	3.8	58.7	1.9	15.1	56.8	0.0	58.7	0.3	0.0
19-Sep	46.7	11.4	15.1	0.0	30.3	46.7	0.5	15.1	0.0	0.0
20-Sep	51.3	0.0	45.4	0.0	30.3	51.3	0.5	45.4	0.0	0.0
21-Sep	44.2	0.0	60.6	0.0	30.3	44.2	0.5	60.6	0.0	0.0
22-Sep	50.4	30.3	60.6	0.0	30.3	50.4	0.5	60.6	0.3	0.0
23-Sep	27.0	0.0	43.5	1.9	30.3	27.0	0.5	43.5	0.3	0.0
24-Sep	49.7	0.0	60.6	0.0	30.3	49.7	0.5	60.6	0.3	0.0
25-Sep	29.6	0.0	60.6	0.0	30.3	29.6	0.5	60.6	0.6	0.0
26-Sep	47.1	6.1	45.4	0.0	30.3	47.1	0.5	45.4	0.3	0.0
27-Sep	40.1	0.0	60.6	0.0	30.3	40.1	0.5	60.6	0.3	0.0
28-Sep	53.8	0.0	60.6	0.0	30.3	53.8	0.5	60.6	0.0	0.0
29-Sep	63.7	18.9	60.6	0.0	30.3	63.7	0.5	60.6	0.0	0.0
30-Sep	71.8	0.0	45.4	0.0	30.3	71.8	0.5	45.4	0.3	0.0
Total	1490.3	247.7	1461.2	7.6	863.1	1490.3	12.5	1461.2	6.3	584.0

Notes:

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