



July 29, 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 – June 2014

The following is the monthly report for June 2014 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 June 2014, samples were collected at MP-01, MS-01, MS-MRY-04, MS-MRY-6, 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 June 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 June 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 June 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: Justin Hack, Erik Allain (AANDC), Stephen Bathory QIA

Table 1: Monitoring Program Water Sampling Summary for June 2014

Monitoring Program Station	Sampling Date	Lab ID#	Comment
Milne Port			
MP-01 (Sewage Treatment Facility)	June 3, 2014 June 17, 2014 June 24, 2014	1108314, 1108316 1111938, 1111941 1114119, 1114128	Discharge volume reported daily
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-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)	June 23, 2014 June 30, 2014	1114150 1115665	
MP-C-B (Downstream of Quarry Area)	June 23, 2014 June 30, 2014	1114151 1115666	
MP-C-B01 (Downstream of Quarry Area)	June 23, 2014 June 30, 2014	1114152 1115667, 1115683	
MP-C-B0101 (Duplicate of MP-C-B01)	June 23, 2014	1114153	
MP-C-F (Downstream of Construction Area)	June 30, 2014	1115669	
MP-C-H (Downstream of Construction Area)	June 23, 2014 June 30, 2014	1114154 1115668	
MP-Q1-01 (Downstream of Q1 Quarry)	June 23, 2014 June 30, 2014	1114148 1115662	
MP-Q1-0101 (Duplicate of MP-Q1-01)	June 30, 2014	1115663	
MP-Q1-02 (Downstream of Q1 Quarry)	June 23, 2014 June 30, 2014	1114149 1115664	
Mary River Mine Site			
MS-01 (Sewage Treatment Facility)	June 3, 2014 June 10, 2014 June 17, 2014 June 24, 2014	1108606, 1108608 1110137, 1110164 1111938, 1111941 1114121, 1114129	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)	June 10, 2014 June 18, 2014 June 19, 2014 June 21, 2014	1110145, 1110159 1110146, 1110160 1110147, 1110161 1112814, 1112817 1114117 1114115, 1114116	Volume Reported Daily during discharge

Monitoring Program Station	Sampling Date	Lab ID#	Comment
MS-MRY-6 (Exploration Camp Bladder Farm Stormwater)	June 16, 2014 June 24, 2014 June 30, 2014	1111979 1114721 1115656	Volume Reported Daily during discharge
MS-MRY-09 (Bulk Sample Pit)	N/A	N/A	No flow, frozen conditions
MS-MRY-10 (Weathered Ore Bulk Sample Stockpile)	N/A	N/A	No flow, location is being retired due to lack of flow.
MS-MRY-13A (Downstream Non-Hazardous Landfill)	June 18, 2014 June 23, 2014 June 30, 2014	1112820 1114220, 1114222 1115777, 1115779	
MS-MRY-13B (Downstream Non-Hazardous Landfill)	June 18, 2014 June 23, 2014 June 30, 2014	1112821 1114221, 1114223 1115778, 1115780	
MS-C-A (Downstream of Construction and Borrow Areas)	June 23, 2014 June 30, 2014	1114177 1115678	
MS-C-B (Downstream of Construction and Borrow Areas)	June 23, 2014 June 30, 2014	1114176 1115677	
MS-C-C (Downstream of Construction and Borrow Areas)	June 23, 2014	1114175	
MS-C-D (Downstream of Construction and Borrow Areas)	June 23, 2014 June 30, 2014	1114174 1115675	
MS-C-E (Downstream of Construction and Borrow Areas)	June 23, 2014 June 30, 2014	1114172 1115673	
MS-C-E-DS (Downstream of Construction and Borrow Areas)	June 23, 2014	1114173	
MS-C-F (Downstream of Construction and Borrow Areas)	June 23, 2014 June 30, 2014	1114178 1115674	
MQ-C-A (Downstream of QMR2 Quarry)	June 23, 2014 June 30, 2014	1114171 1115672	
MQ-C-B (Downstream of QMR2 Quarry)	June 23, 2014 June 30, 2014	1114169 1115670	
MQ-C-D (Downstream of QMR2 Quarry)	June 23, 2014 June 30, 2014	1114170 1115671	
Steensby Port			
Steensby Exploration Camp closed for the season			

Table 2. Water Chemistry Results - June 2014

Sample Number	Sample ID	Date Sampled	Parameter Name	Result	Units	Lab
MILNE PORT						
1108314	MP-01	3-Jun-14	Biochemical Oxygen Demand	3	mg/L	Exova
1108316	MP-01	3-Jun-14	Faecal Coliforms	2	ct/100mL	Exova
1108314	MP-01	3-Jun-14	Total Kjeldahl Nitrogen	1.12	mg/L	Exova
1108314	MP-01	3-Jun-14	N-NH3 (Ammonia)	0.33	mg/L	Exova
1108314	MP-01	3-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1108314	MP-01	3-Jun-14	Total Suspended Solids	8	mg/L	Exova
1108314	MP-01	3-Jun-14	pH	7.78	pH units	Exova
1111938	MP-01	17-Jun-14	Biochemical Oxygen Demand	2	mg/L	Exova
1111941	MP-01	17-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1111938	MP-01	17-Jun-14	Total Kjeldahl Nitrogen	0.63	mg/L	Exova
1111938	MP-01	17-Jun-14	N-NH3 (Ammonia)	0.33	mg/L	Exova
1111938	MP-01	17-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1111938	MP-01	17-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1111938	MP-01	17-Jun-14	pH	7.80	pH units	Exova
1114119	MP-01	24-Jun-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1114128	MP-01	24-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1114119	MP-01	24-Jun-14	Total Kjeldahl Nitrogen	1.55	mg/L	Exova
1114119	MP-01	24-Jun-14	N-NH3 (Ammonia)	0.39	mg/L	Exova
1114119	MP-01	24-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114119	MP-01	24-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114119	MP-01	24-Jun-14	pH	7.67	pH units	Exova
1114148	MP-Q1-01	23-Jun-14	Conductivity	104	uS/cm	Exova
1114148	MP-Q1-01	23-Jun-14	N-NO3	0.4	mg/L	Exova
1114148	MP-Q1-01	23-Jun-14	pH	7.75	pH units	Exova
1114148	MP-Q1-01	23-Jun-14	Total Suspended Solids	9	mg/L	Exova
1114148	MP-Q1-01	23-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1114148	MP-Q1-01	23-Jun-14	N-NH3 (Ammonia)	0.15	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	Conductivity	128	uS/cm	Exova
1115662	MP-Q1-01	30-Jun-14	N-NO3	0.16	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	pH	7.94	pH units	Exova
1115662	MP-Q1-01	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	Oil & Grease - Total	6	mg/L	Exova
1115662	MP-Q1-01	30-Jun-14	N-NH3 (Ammonia)	<0.02	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	Conductivity	128	uS/cm	Exova
1115663	MP-Q1-0101	30-Jun-14	N-NO3	0.12	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	pH	7.94	pH units	Exova
1115663	MP-Q1-0101	30-Jun-14	Total Suspended Solids	2	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	Oil & Grease - Total	<0.02	mg/L	Exova
1115663	MP-Q1-0101	30-Jun-14	N-NH3 (Ammonia)	3	mg/L	Exova
1114149	MP-Q1-02	23-Jun-14	Conductivity	203	uS/cm	Exova
1114149	MP-Q1-02	23-Jun-14	N-NO3	0.4	mg/L	Exova
1114149	MP-Q1-02	23-Jun-14	pH	7.97	pH units	Exova
1114149	MP-Q1-02	23-Jun-14	Total Suspended Solids	18	mg/L	Exova
1114149	MP-Q1-02	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114149	MP-Q1-02	23-Jun-14	N-NH3 (Ammonia)	0.92	mg/L	Exova
1115664	MP-Q1-02	30-Jun-14	Conductivity	391	uS/cm	Exova
1115664	MP-Q1-02	30-Jun-14	N-NO3	13.2	mg/L	Exova
1115664	MP-Q1-02	30-Jun-14	pH	7.92	pH units	Exova
1115664	MP-Q1-02	30-Jun-14	Total Suspended Solids	290	mg/L	Exova
1115664	MP-Q1-02	30-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1115664	MP-Q1-02	30-Jun-14	N-NH3 (Ammonia)	3.76	mg/L	Exova
1114150	MP-C-A	23-Jun-14	Conductivity	490	uS/cm	Exova
1114150	MP-C-A	23-Jun-14	N-NO3	0.54	mg/L	Exova
1114150	MP-C-A	23-Jun-14	pH	8.35	pH units	Exova
1114150	MP-C-A	23-Jun-14	Total Suspended Solids	5	mg/L	Exova
1114150	MP-C-A	23-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1114150	MP-C-A	23-Jun-14	N-NH3 (Ammonia)	0.17	mg/L	Exova
1115665	MP-C-A	30-Jun-14	Conductivity	1960	uS/cm	Exova
1115665	MP-C-A	30-Jun-14	N-NO3	12.2	mg/L	Exova
1115665	MP-C-A	30-Jun-14	pH	8.02	pH units	Exova
1115665	MP-C-A	30-Jun-14	Total Suspended Solids	6	mg/L	Exova
1115665	MP-C-A	30-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1115665	MP-C-A	30-Jun-14	N-NH3 (Ammonia)	1.17	mg/L	Exova
1114151	MP-C-B	23-Jun-14	Conductivity	244	uS/cm	Exova
1114151	MP-C-B	23-Jun-14	N-NO3	0.36	mg/L	Exova
1114151	MP-C-B	23-Jun-14	pH	8.3	pH units	Exova
1114151	MP-C-B	23-Jun-14	Total Suspended Solids	5	mg/L	Exova
1114151	MP-C-B	23-Jun-14	Oil & Grease - Total	3	mg/L	Exova
1114151	MP-C-B	23-Jun-14	N-NH3 (Ammonia)	0.1	mg/L	Exova
1115666	MP-C-B	30-Jun-14	Conductivity	200	uS/cm	Exova
1115666	MP-C-B	30-Jun-14	N-NO3	0.36	mg/L	Exova
1115666	MP-C-B	30-Jun-14	pH	8.37	pH units	Exova
1115666	MP-C-B	30-Jun-14	Total Suspended Solids	4	mg/L	Exova
1115666	MP-C-B	30-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1115666	MP-C-B	30-Jun-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	Conductivity	184	uS/cm	Exova
1114152	MP-C-B01	23-Jun-14	N-NO3	0.55	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	pH	8.22	pH units	Exova
1114152	MP-C-B01	23-Jun-14	Total Suspended Solids	11	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1114152	MP-C-B01	23-Jun-14	N-NH3 (Ammonia)	0.1	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	Conductivity	183	uS/cm	Exova
1114153	MP-C-B0101	23-Jun-14	N-NO3	0.56	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	pH	8.21	pH units	Exova
1114153	MP-C-B0101	23-Jun-14	Total Suspended Solids	6	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1114153	MP-C-B0101	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1115667	MP-C-B01	30-Jun-14	Conductivity	184	uS/cm	Exova
1115667	MP-C-B01	30-Jun-14	N-NO3	0.39	mg/L	Exova
1115667	MP-C-B01	30-Jun-14	pH	8.36	pH units	Exova
1115667	MP-C-B01	30-Jun-14	Total Suspended Solids	3	mg/L	Exova

1115667	MP-C-B01	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115667	MP-C-B01	30-Jun-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1115683	MP-C-B01	30-Jun-14	Toxicity*	Non Lethal	mortality %	Exova
1115669	MP-C-F	30-Jun-14	Conductivity	855	uS/cm	Exova
1115669	MP-C-F	30-Jun-14	N-NO3	6.64	mg/L	Exova
1115669	MP-C-F	30-Jun-14	pH	8.04	pH units	Exova
1115669	MP-C-F	30-Jun-14	Total Suspended Solids	38	mg/L	Exova
1115669	MP-C-F	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115669	MP-C-F	30-Jun-14	N-NH3 (Ammonia)	1.37	mg/L	Exova
1114154	MP-C-H	23-Jun-14	Conductivity	111	uS/cm	Exova
1114154	MP-C-H	23-Jun-14	N-NO3	<0.1	mg/L	Exova
1114154	MP-C-H	23-Jun-14	pH	7.99	pH units	Exova
1114154	MP-C-H	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114154	MP-C-H	23-Jun-14	Oil & Grease - Total	3	mg/L	Exova
1114154	MP-C-H	23-Jun-14	N-NH3 (Ammonia)	0.07	mg/L	Exova
1115668	MP-C-H	30-Jun-14	Conductivity	120	uS/cm	Exova
1115668	MP-C-H	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115668	MP-C-H	30-Jun-14	pH	8.00	pH units	Exova
1115668	MP-C-H	30-Jun-14	Total Suspended Solids	2	mg/L	Exova
1115668	MP-C-H	30-Jun-14	Oil & Grease - Total	22 (no sheen)	mg/L	Exova
1115668	MP-C-H	30-Jun-14	N-NH3 (Ammonia)	<0.02	mg/L	Exova
MARY RIVER MINE SITE						
1108608	MS-01	3-Jun-14	Biochemical Oxygen Demand	1	mg/L	Exova
1108606	MS-01	3-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1108608	MS-01	3-Jun-14	Total Kjeldahl Nitrogen	1.36	mg/L	Exova
1108608	MS-01	3-Jun-14	N-NH3 (Ammonia)	0.31	mg/L	Exova
1108608	MS-01	3-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1108608	MS-01	3-Jun-14	Total Phosphorus	0.64	mg/L	Exova
1108608	MS-01	3-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1108608	MS-01	3-Jun-14	pH	7.63	pH units	Exova
1110164	MS-01	10-Jun-14	Biochemical Oxygen Demand	2	mg/L	Exova
1110137	MS-01	10-Jun-14	Faecal Coliforms	1	ct/100mL	Exova
1110164	MS-01	10-Jun-14	Total Kjeldahl Nitrogen	0.28	mg/L	Exova
1110164	MS-01	10-Jun-14	N-NH3 (Ammonia)	0.26	mg/L	Exova
1110164	MS-01	10-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1110164	MS-01	10-Jun-14	Total Phosphorus	0.14	mg/L	Exova
1110164	MS-01	10-Jun-14	Total Suspended Solids	2	mg/L	Exova
1110164	MS-01	10-Jun-14	pH	7.60	pH units	Exova
1111938	MS-01	17-Jun-14	Biochemical Oxygen Demand	<1	mg/L	Exova
1111941	MS-01	17-Jun-14	Faecal Coliforms	2	ct/100mL	Exova
1111938	MS-01	17-Jun-14	Total Kjeldahl Nitrogen	0.57	mg/L	Exova
1111938	MS-01	17-Jun-14	N-NH3 (Ammonia)	0.33	mg/L	Exova
1111938	MS-01	17-Jun-14	Oil & Grease - Total	1	mg/L	Exova
1111938	MS-01	17-Jun-14	Total Phosphorus	0.82	mg/L	Exova
1111938	MS-01	17-Jun-14	Total Suspended Solids	6	mg/L	Exova
1111938	MS-01	17-Jun-14	pH	7.82	pH units	Exova
1114121	MS-01	24-Jun-14	Biochemical Oxygen Demand	2	mg/L	Exova
1114129	MS-01	24-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1114121	MS-01	24-Jun-14	Total Kjeldahl Nitrogen	2.59	mg/L	Exova
1114121	MS-01	24-Jun-14	N-NH3 (Ammonia)	0.67	mg/L	Exova
1114121	MS-01	24-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114121	MS-01	24-Jun-14	Total Phosphorus	1.78	mg/L	Exova
1114121	MS-01	24-Jun-14	Total Suspended Solids	20	mg/L	Exova
1114121	MS-01	24-Jun-14	pH	7.64	pH units	Exova
1110159	MS-MRY-4C	10-Jun-14	Biochemical Oxygen Demand	3	mg/L	Exova
1110145	MS-MRY-4C	10-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1110159	MS-MRY-4C	10-Jun-14	Total Kjeldahl Nitrogen	1.45	mg/L	Exova
1110159	MS-MRY-4C	10-Jun-14	N-NH3 (Ammonia)	0.43	mg/L	Exova
1110159	MS-MRY-4C	10-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1110159	MS-MRY-4C	10-Jun-14	Total Phosphorus	0.081	mg/L	Exova
1110159	MS-MRY-4C	10-Jun-14	Total Suspended Solids	7	mg/L	Exova
1110159	MS-MRY-4C	10-Jun-14	pH	7.36	pH units	Exova
1110131	MS-MRY-4C	10-Jun-14	Toxicity*	Non lethal	mortality %	Exova
1110160	MS-MRY-4C	10-Jun-14	Biochemical Oxygen Demand	4	mg/L	Exova
1110146	MS-MRY-4C	10-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1110160	MS-MRY-4C	10-Jun-14	Total Kjeldahl Nitrogen	1.37	mg/L	Exova
1110160	MS-MRY-4C	10-Jun-14	N-NH3 (Ammonia)	0.41	mg/L	Exova
1110160	MS-MRY-4C	10-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1110160	MS-MRY-4C	10-Jun-14	Total Phosphorus	0.148	mg/L	Exova
1110160	MS-MRY-4C	10-Jun-14	Total Suspended Solids	6	mg/L	Exova
1110160	MS-MRY-4C	10-Jun-14	pH	7.23	pH units	Exova
1110161	MS-MRY-4C	10-Jun-14	Biochemical Oxygen Demand	4	mg/L	Exova
1110147	MS-MRY-4C	10-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1110161	MS-MRY-4C	10-Jun-14	Total Kjeldahl Nitrogen	1.38	mg/L	Exova
1110161	MS-MRY-4C	10-Jun-14	N-NH3 (Ammonia)	0.41	mg/L	Exova
1110161	MS-MRY-4C	10-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1110161	MS-MRY-4C	10-Jun-14	Total Phosphorus	0.159	mg/L	Exova
1110161	MS-MRY-4C	10-Jun-14	Total Suspended Solids	5	mg/L	Exova
1110161	MS-MRY-4C	10-Jun-14	pH	7.21	pH units	Exova
1112814	MS-MRY-4C	18-Jun-14	Biochemical Oxygen Demand	6	mg/L	Exova
1112817	MS-MRY-4C	18-Jun-14	Faecal Coliforms	0	ct/100mL	Exova
1112814	MS-MRY-4C	18-Jun-14	Total Kjeldahl Nitrogen	1.76	mg/L	Exova
1112814	MS-MRY-4C	18-Jun-14	N-NH3 (Ammonia)	0.34	mg/L	Exova
1112814	MS-MRY-4C	18-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1112814	MS-MRY-4C	18-Jun-14	Total Phosphorus	0.158	mg/L	Exova
1112814	MS-MRY-4C	18-Jun-14	Total Suspended Solids	12	mg/L	Exova
1112814	MS-MRY-4C	18-Jun-14	pH	7.23	pH units	Exova
1114117	MS-MRY-4C	19-Jun-14	Total Phosphorus	0.12	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	Biochemical Oxygen Demand	11	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	Total Kjeldahl Nitrogen	3.64	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	N-NH3 (Ammonia)	0.34	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	Total Phosphorus	0.121	mg/L	Exova

1114115	MS-MRY-4C	21-Jun-14	Total Suspended Solids	22	mg/L	Exova
1114115	MS-MRY-4C	21-Jun-14	pH	7.3	pH units	Exova
1114116	MS-MRY-4C	21-Jun-14	Biochemical Oxygen Demand	13	mg/L	Exova
1114116	MS-MRY-4C	21-Jun-14	Total Kjeldahl Nitrogen	2.54	mg/L	Exova
1114116	MS-MRY-4C	21-Jun-14	N-NH3 (Ammonia)	0.34	mg/L	Exova
1114116	MS-MRY-4C	21-Jun-14	Total Phosphorus	0.184	mg/L	Exova
1114116	MS-MRY-4C	21-Jun-14	Total Suspended Solids	16	mg/L	Exova
1114116	MS-MRY-4C	21-Jun-14	pH	7.2	pH units	Exova
1111979	MS-MRY-6	16-Jun-14	Benzene	<0.5	ug/L	Exova
1111979	MS-MRY-6	16-Jun-14	Ethylbenzene	<0.5	ug/L	Exova
1111979	MS-MRY-6	16-Jun-14	Toluene	<0.5	ug/L	Exova
1111979	MS-MRY-6	16-Jun-14	Total Lead	0.011	mg/L	Exova
1111979	MS-MRY-6	16-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1111981	MS-MRY-6	17-Jun-14	Total Suspended Solids	2	mg/L	Exova
1111981	MS-MRY-6	17-Jun-14	pH	8.85	pH units	Exova
1114721	MS-MRY-6	24-Jun-14	Benzene	<0.5	ug/L	Exova
1114721	MS-MRY-6	24-Jun-14	Ethylbenzene	<0.5	ug/L	Exova
1114721	MS-MRY-6	24-Jun-14	Toluene	<0.5	ug/L	Exova
1114721	MS-MRY-6	24-Jun-14	Total Lead	0.004	mg/L	Exova
1114721	MS-MRY-6	24-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115656	MS-MRY-6	30-Jun-14	Benzene	<0.5	ug/L	Exova
1115656	MS-MRY-6	30-Jun-14	Ethylbenzene	<0.5	ug/L	Exova
1115656	MS-MRY-6	30-Jun-14	Toluene	<0.5	ug/L	Exova
1115656	MS-MRY-6	30-Jun-14	Total Lead	<0.001	mg/L	Exova
1115656	MS-MRY-6	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1112820	MS-MRY-13A	18-Jun-14	pH	7.53	pH units	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Arsenic	0.14	ug/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Copper	2.05	ug/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Lead	0.25	ug/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Nickel	4.8	ug/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Zinc	3.5	ug/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1112820	MS-MRY-13A	18-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114220	MS-MRY-13A	23-Jun-14	pH	7.78	pH units	Exova
1114222	MS-MRY-13A	23-Jun-14	Total Arsenic	0.15	ug/L	Exova
1114222	MS-MRY-13A	23-Jun-14	Total Copper	2.43	ug/L	Exova
1114222	MS-MRY-13A	23-Jun-14	Total Lead	0.09	ug/L	Exova
1114222	MS-MRY-13A	23-Jun-14	Total Nickel	6.39	ug/L	Exova
1114222	MS-MRY-13A	23-Jun-14	Total Zinc	4.6	ug/L	Exova
1114220	MS-MRY-13A	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114220	MS-MRY-13A	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115777	MS-MRY-13A	30-Jun-14	pH	-	pH units	Exova
1115779	MS-MRY-13A	30-Jun-14	Total Arsenic	0.15	ug/L	Exova
1115779	MS-MRY-13A	30-Jun-14	Total Copper	1.69	ug/L	Exova
1115779	MS-MRY-13A	30-Jun-14	Total Lead	<0.05	ug/L	Exova
1115779	MS-MRY-13A	30-Jun-14	Total Nickel	8.66	ug/L	Exova
1115779	MS-MRY-13A	30-Jun-14	Total Zinc	4.9	ug/L	Exova
1115777	MS-MRY-13A	30-Jun-14	Total Suspended Solids	-	mg/L	Exova
1115777	MS-MRY-13A	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1112821	MS-MRY-13B	18-Jun-14	pH	7.60	pH units	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Arsenic	0.16	ug/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Copper	2.93	ug/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Lead	0.56	ug/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Nickel	4.25	ug/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Zinc	5.6	ug/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1112821	MS-MRY-13B	18-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114221	MS-MRY-13B	23-Jun-14	pH	7.90	pH units	Exova
1114223	MS-MRY-13B	23-Jun-14	Total Arsenic	0.13	ug/L	Exova
1114223	MS-MRY-13B	23-Jun-14	Total Copper	1.76	ug/L	Exova
1114223	MS-MRY-13B	23-Jun-14	Total Lead	<0.05	ug/L	Exova
1114223	MS-MRY-13B	23-Jun-14	Total Nickel	5.92	ug/L	Exova
1114223	MS-MRY-13B	23-Jun-14	Total Zinc	<3.0	ug/L	Exova
1114221	MS-MRY-13B	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114221	MS-MRY-13B	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115778	MS-MRY-13B	30-Jun-14	pH	7.98	pH units	Exova
1115780	MS-MRY-13B	30-Jun-14	Total Arsenic	0.14	ug/L	Exova
1115780	MS-MRY-13B	30-Jun-14	Total Copper	1.67	ug/L	Exova
1115780	MS-MRY-13B	30-Jun-14	Total Lead	<0.05	ug/L	Exova
1115780	MS-MRY-13B	30-Jun-14	Total Nickel	6.77	ug/L	Exova
1115780	MS-MRY-13B	30-Jun-14	Total Zinc	<3.0	ug/L	Exova
1115778	MS-MRY-13B	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115778	MS-MRY-13B	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114171	MQ-C-A	23-Jun-14	Conductivity	115	uS/cm	Exova
1114171	MQ-C-A	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114171	MQ-C-A	23-Jun-14	pH	7.91	pH units	Exova
1114171	MQ-C-A	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114171	MQ-C-A	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114171	MQ-C-A	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1115672	MQ-C-A	30-Jun-14	Conductivity	97	uS/cm	Exova
1115672	MQ-C-A	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115672	MQ-C-A	30-Jun-14	pH	7.9	pH units	Exova
1115672	MQ-C-A	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115672	MQ-C-A	30-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1115672	MQ-C-A	30-Jun-14	N-NH3 (Ammonia)	0.05	mg/L	Exova
1114169	MQ-C-B	23-Jun-14	Conductivity	92	uS/cm	Exova
1114169	MQ-C-B	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114169	MQ-C-B	23-Jun-14	pH	7.71	pH units	Exova
1114169	MQ-C-B	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114169	MQ-C-B	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114169	MQ-C-B	23-Jun-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1115670	MQ-C-B	30-Jun-14	Conductivity	121	uS/cm	Exova
1115670	MQ-C-B	30-Jun-14	N-NO3	0.1	mg/L	Exova
1115670	MQ-C-B	30-Jun-14	pH	7.92	pH units	Exova
1115670	MQ-C-B	30-Jun-14	Total Suspended Solids	3	mg/L	Exova
1115670	MQ-C-B	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115670	MQ-C-B	30-Jun-14	N-NH3 (Ammonia)	0.05	mg/L	Exova

1115680	MQ-C-B	1-Jul-14	Toxicity*	Non Lethal	mortality %	Exova
1114170	MQ-C-D	23-Jun-14	Conductivity	105	uS/cm	Exova
1114170	MQ-C-D	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114170	MQ-C-D	23-Jun-14	pH	7.83	pH units	Exova
1114170	MQ-C-D	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114170	MQ-C-D	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114170	MQ-C-D	23-Jun-14	N-NH3 (Ammonia)	0.03	mg/L	Exova
1115671	MQ-C-D	30-Jun-14	Conductivity	104	uS/cm	Exova
1115671	MQ-C-D	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115671	MQ-C-D	30-Jun-14	pH	7.84	pH units	Exova
1115671	MQ-C-D	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115671	MQ-C-D	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115671	MQ-C-D	30-Jun-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1114177	MS-C-A	23-Jun-14	Conductivity	69	uS/cm	Exova
1114177	MS-C-A	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114177	MS-C-A	23-Jun-14	pH	7.73	pH units	Exova
1114177	MS-C-A	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114177	MS-C-A	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114177	MS-C-A	23-Jun-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1115678	MS-C-A	30-Jun-14	Conductivity	86	uS/cm	Exova
1115678	MS-C-A	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115678	MS-C-A	30-Jun-14	pH	7.77	pH units	Exova
1115678	MS-C-A	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115678	MS-C-A	30-Jun-14	Oil & Grease - Total	2	mg/L	Exova
1115678	MS-C-A	30-Jun-14	N-NH3 (Ammonia)	0.08	mg/L	Exova
1114176	MS-C-B	23-Jun-14	Conductivity	80	uS/cm	Exova
1114176	MS-C-B	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114176	MS-C-B	23-Jun-14	pH	7.76	pH units	Exova
1114176	MS-C-B	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114176	MS-C-B	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114176	MS-C-B	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1115677	MS-C-B	30-Jun-14	Conductivity	91	uS/cm	Exova
1115677	MS-C-B	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115677	MS-C-B	30-Jun-14	pH	7.77	pH units	Exova
1115677	MS-C-B	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115677	MS-C-B	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115677	MS-C-B	30-Jun-14	N-NH3 (Ammonia)	0.1	mg/L	Exova
1114175	MS-C-C	23-Jun-14	Conductivity	543	uS/cm	Exova
1114175	MS-C-C	23-Jun-14	N-NO3	15.9	mg/L	Exova
1114175	MS-C-C	23-Jun-14	pH	7.88	pH units	Exova
1114175	MS-C-C	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114175	MS-C-C	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114175	MS-C-C	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1114174	MS-C-D	23-Jun-14	Conductivity	207	uS/cm	Exova
1114174	MS-C-D	23-Jun-14	N-NO3	4.29	mg/L	Exova
1114174	MS-C-D	23-Jun-14	pH	7.93	pH units	Exova
1114174	MS-C-D	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114174	MS-C-D	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114174	MS-C-D	23-Jun-14	N-NH3 (Ammonia)	0.12	mg/L	Exova
1115675	MS-C-D	30-Jun-14	Conductivity	318	uS/cm	Exova
1115675	MS-C-D	30-Jun-14	N-NO3	4.65	mg/L	Exova
1115675	MS-C-D	30-Jun-14	pH	8.4	pH units	Exova
1115675	MS-C-D	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115675	MS-C-D	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115675	MS-C-D	30-Jun-14	N-NH3 (Ammonia)	0.09	mg/L	Exova
1114172	MS-C-E	23-Jun-14	Conductivity	117	uS/cm	Exova
1114172	MS-C-E	23-Jun-14	N-NO3	0.32	mg/L	Exova
1114172	MS-C-E	23-Jun-14	pH	7.92	pH units	Exova
1114172	MS-C-E	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114172	MS-C-E	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114172	MS-C-E	23-Jun-14	N-NH3 (Ammonia)	0.05	mg/L	Exova
1114173	MS-C-E-DS	23-Jun-14	Conductivity	83	uS/cm	Exova
1114173	MS-C-E-DS	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114173	MS-C-E-DS	23-Jun-14	pH	7.81	pH units	Exova
1114173	MS-C-E-DS	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114173	MS-C-E-DS	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114173	MS-C-E-DS	23-Jun-14	N-NH3 (Ammonia)	0.11	mg/L	Exova
1115673	MS-C-E	30-Jun-14	Conductivity	204	uS/cm	Exova
1115673	MS-C-E	30-Jun-14	N-NO3	0.6	mg/L	Exova
1115673	MS-C-E	30-Jun-14	pH	8.04	pH units	Exova
1115673	MS-C-E	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115673	MS-C-E	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115673	MS-C-E	30-Jun-14	N-NH3 (Ammonia)	0.06	mg/L	Exova
1114178	MS-C-F	23-Jun-14	Conductivity	71	uS/cm	Exova
1114178	MS-C-F	23-Jun-14	N-NO3	<0.10	mg/L	Exova
1114178	MS-C-F	23-Jun-14	pH	7.70	pH units	Exova
1114178	MS-C-F	23-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1114178	MS-C-F	23-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1114178	MS-C-F	23-Jun-14	N-NH3 (Ammonia)	0.1	mg/L	Exova
1115674	MS-C-F	30-Jun-14	Conductivity	90	uS/cm	Exova
1115674	MS-C-F	30-Jun-14	N-NO3	<0.10	mg/L	Exova
1115674	MS-C-F	30-Jun-14	pH	7.76	pH units	Exova
1115674	MS-C-F	30-Jun-14	Total Suspended Solids	<2	mg/L	Exova
1115674	MS-C-F	30-Jun-14	Oil & Grease - Total	<1	mg/L	Exova
1115674	MS-C-F	30-Jun-14	N-NH3 (Ammonia)	0.1	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)

Area of Non-Compliance:

Sample Station MP-Q1-02 (Mine Port quarry runoff) showed a non-compliance for total suspended solids on June 30, 2014 (290 mg/L). Silt fences were erected and upstream work was completed to minimize impacts. Subsequent sampling of this location on July 7, 2014 resulted in a TSS value of 2 mg/L.

Table 3: Flow and Volume Measurements-Part I Item 11 - June 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) MRY-3	Km 32 Lake Milne Port Camp Fresh Water Use for Other Purposes (m3) 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 Sheardown Lake (MRY-4c)	Treated Oily Water (m3) from Mine Site Camp Fuel Storage Facility to Tundra (MRY-6)	Milne Port Daily Drill Use (m3) - Thermistor
1-Jun	41.6	7.6	45.4	0.0	41.6	0.0	45.4	0.0	0.0	0.0	0.0
2-Jun	58.9	9.5	30.3	0.0	58.9	1.0	30.3	0.0	0.0	0.0	0.0
3-Jun	28.3	9.5	30.3	0.0	28.3	0.0	30.3	0.0	0.0	0.0	0.0
4-Jun	30.1	7.6	30.3	0.0	30.1	1.0	30.3	0.5	0.0	0.0	0.0
5-Jun	37.2	11.4	30.3	0.0	37.2	0.0	30.3	0.0	0.0	0.0	0.0
6-Jun	59.4	11.4	30.3	0.0	59.4	0.0	30.3	0.0	0.0	0.0	0.0
7-Jun	44.9	11.4	30.3	0.0	44.9	0.0	30.3	0.5	0.0	0.0	0.0
8-Jun	38.5	9.5	30.3	0.0	38.5	1.0	30.3	0.0	0.0	0.0	0.0
9-Jun	58.3	9.5	45.4	0.0	58.3	0.0	45.4	0.0	0.0	0.0	0.0
10-Jun	19.2	11.4	30.3	0.0	19.2	0.5	30.3	0.5	0.0	0.0	0.0
11-Jun	76.8	0.0	30.3	0.0	76.8	0.5	30.3	0.5	0.0	0.0	0.0
12-Jun	40.1	0.0	30.3	15.1	40.1	0.0	30.3	0.0	0.0	0.0	0.0
13-Jun	64.0	0.0	30.3	0.0	64.0	0.5	30.3	0.0	0.0	0.0	0.0
14-Jun	39.2	0.0	45.4	0.0	39.2	0.5	45.4	0.5	0.0	0.0	0.0
15-Jun	57.9	0.0	30.3	0.0	57.9	0.5	30.3	0.0	0.0	0.0	0.0
16-Jun	21.7	0.0	30.3	15.1	21.7	0.5	30.3	0.0	0.0	0.0	0.0
17-Jun	63.7	0.0	30.3	0.0	63.7	0.5	30.3	0.5	1.9	0.0	0.0
18-Jun	48.1	0.0	30.3	0.0	48.1	0.5	30.3	0.0	319.0	0.0	0.0
19-Jun	40.1	0.0	30.3	0.0	40.1	0.5	30.3	0.8	273.5	0.0	0.0
20-Jun	31.2	0.0	45.4	0.0	31.2	0.5	45.4	0.0	337.2	21.6	0.0
21-Jun	54.5	0.0	30.3	0.0	54.5	0.5	30.3	0.3	313.0	148.4	0.0
22-Jun	72.2	0.0	30.3	15.1	72.2	0.0	30.3	0.5	0.0	121.1	0.0
23-Jun	98.7	0.0	30.3	0.0	98.7	0.5	30.3	0.0	0.0	50.3	0.0
24-Jun	104.4	0.0	30.3	0.0	104.4	0.0	30.3	0.0	0.0	93.1	0.0
25-Jun	62.8	0.0	30.3	0.0	62.8	0.5	30.3	0.5	0.0	113.2	0.0
26-Jun	111.0	0.0	29.3	15.1	111.0	0.0	29.3	0.0	0.0	18.2	1.0*
27-Jun	86.5	0.0	43.4	15.1	86.5	0.5	43.4	0.5	0.0	40.5	2.0*
28-Jun	104.0	0.0	44.4	0.0	104.0	0.0	44.4	0.5	0.0	0.0	1.0*
29-Jun	108.9	0.0	43.4	0.0	108.9	0.0	43.4	0.0	0.0	0.0	2.0*
30-Jun	70.3	0.0	45.4	0.0	70.3	0.5	45.4	0.8	0.0	0.0	0.0
Total	1772.5	98.4	1023.5	75.7	1772.5	10.5	1023.5	6.8	1244.6	606.4	6.1

Notes:

WWTP - Waste Water Treatment Plant
PWSP - Polishing Waste Stabilization Pond
*Daily Milne Thermistor Drill Water taken from MRY-3