



December 22, 2020

Manager of Licensing  
Nunavut Water Board  
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Resource Management Officer, CIRNAC  
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**RE: Water Licence 2AM-MRY1325 Monthly Surveillance Network Program (SNP) Report  
November 2020**

The following is the monthly report for November 2020 as required under Part I, Item 21 of the Type 'A' Water Licence 2AM-MRY1325 (the Licence) which 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 identify areas of non-compliance with regulated discharge parameters referred to in Part F"*

**Monitoring Program**

During the month of November 2020, water samples were collected as part of the Water Licence SNP.

Table 1.1 presents a list of samples/monitoring required under the Licence and the details concerning which water quality samples were collected along with sample date/laboratory identification number as appropriate. Analytical water quality testing results received are presented in Tables 2.1 – 2.4. Water volumes consumed for domestic and industrial water purposes and the volumes of effluent discharged at the Mary River Mine Site and Milne Port are presented in Table 3.1.

**Monitoring Program Results**

*Water Sampling and Analysis Results*

Tables 2.1 – 2.4 provide the analytical results related to the SNP sampling requirements for November 2020. There were no water quality exceedances of the site specific daily grab or monthly average samples in November.

*Flow and Volume Measurements*

Table 3.1 provides a breakdown of volume measurements for November 2020 as required by Part I, Item 9 of the Licence. There were no exceedances of the source specific daily volume withdrawal limits in November.

We trust that the information provided in this monthly report is acceptable and should you have any questions regarding this report please contact the undersigned.

Prepared by:

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

Aaron MacDonell  
Environmental Superintendent

Reviewed by:

A handwritten signature in black ink, appearing to read "C. Murray".

Christopher Murray  
Environmental & Regulatory Compliance Manager

cc: Justin Hack, Jeremy Fraser (CIRNAC)  
Jared Ottenhof, Chris Spencer (QIA)  
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**Attachments**

Attachments – Monthly Water Sampling Results: Table 1.1, Tables 2.1 – 2.4, Table 3.1

## **Attachments**

### **Monthly Water Sampling Results**

**Table 1.1: Monitoring Program Water Sampling Summary for November 2020**

| Monitoring Program Station   | Sampling Date | Lab ID Number | Comment                                |
|--|---------------|---------------|--|
| <b>Milne Port</b>  |               |               |  |
| MP-01<br>(Sewage Treatment Facility)                                       | 2020-11-04    | L2526083-2    | Volume reported daily during discharge |
| MP-0101<br>(Field Duplicate of MP-01)                                      | 2020-11-04    | L2526083-3    |  |
| MP-01A<br>(Polishing Waste Stabilization Pond)                             | N/A           | N/A           | No discharge                           |
| MP-01B<br>(Sewage Treatment Facility)                                      | 2020-11-04    | L2526112-2    | Volume reported daily during discharge |
| MP-MRY-2<br>(Freshwater Intake at Phillips Creek)                          | N/A           | N/A           | No water withdrawal                    |
| MP-MRY-3<br>(Freshwater Intake from Km 32 Lake)                            | N/A           | N/A           | Withdrawal volume recorded daily       |
| MP-02<br>(Milne Port Maintenance Shop)                                     | N/A           | N/A           | No discharge                           |
| MP-03<br>(Bulk Fuel Storage Facility Stormwater)                           | N/A           | N/A           | No discharge                           |
| MP-04<br>(Landfarm Facility & Snow Containment Facility)                   | N/A           | N/A           | No discharge                           |
| MP-04A<br>(Treated Oily Water from Milne Port Snowdump Facility to Tundra) | N/A           | N/A           | No discharge                           |
| MP-05<br>Ore Stockpile Sedimentation Pond (East)                           | N/A           | N/A           | No discharge                           |
| MP-06<br>Ore Stockpile Sedimentation Pond (West)                           | N/A           | N/A           | No discharge                           |
| MP-C-A<br>(Downstream of Construction Area)                                | N/A           | N/A           | No flow                                |
| MP-C-B<br>(Downstream of Construction Area)                                | N/A           | N/A           | No flow                                |
| MP-C-B01<br>(Downstream of Construction Area)                              | N/A           | N/A           | No flow                                |
| MP-C-C<br>(Downstream of Construction Area)                                | N/A           | N/A           | No flow                                |
| MP-C-D<br>(Downstream of Construction Area)                                | N/A           | N/A           | No flow                                |

| Monitoring Program Station                                  | Sampling Date | Lab ID Number | Comment                          |
|---|---------------|---------------|----------------------------------|
| MP-C-E<br>(Downstream of Construction Area)                 | N/A           | N/A           | No flow                          |
| MP-C-F<br>(Downstream of Construction Area)                 | N/A           | N/A           | No flow                          |
| MP-C-G<br>(Downstream of Construction Area)                 | N/A           | N/A           | No flow                          |
| MP-C-H<br>(Downstream of Construction Area)                 | N/A           | N/A           | No flow                          |
| MP-C-J<br>(Downstream of Construction Area)                 | N/A           | N/A           | No flow                          |
| MP-Q1-01<br>(Downstream of Q1 Quarry)                       | N/A           | N/A           | No flow                          |
| MP-Q1-02<br>(Downstream of Q1 Quarry)                       | N/A           | N/A           | No flow                          |
| <b>Mary River Mine Site</b>                                 |               |               |                                  |
| MS-01<br>(Sewage Treatment Facility)                        | 2020-11-04    | L2526115-1    | Discharge volume reported daily  |
| MS-0101<br>(Field Duplicate of MS-01)                       | 2020-11-04    | L2526115-3    |                                  |
| MS-01A<br>(Mine Site Polishing Waste Stabilization Pond)    | N/A           | N/A           | No discharge                     |
| MS-01B<br>(Sewage Treatment Facility)                       | 2020-11-04    | L2526128-1    | Discharge volume reported daily  |
| MS-02<br>(Mine Site Maintenance Shop)                       | N/A           | N/A           | No discharge                     |
| MS-MRY-1<br>(Freshwater Intake Camp Lake)                   | N/A           | N/A           | Withdrawal volume recorded daily |
| MS-MRY-04A<br>(Polishing Waste Stabilization Pond)          | N/A           | N/A           | No discharge                     |
| MS-MRY-04B<br>(Polishing Waste Stabilization Pond)          | N/A           | N/A           | No discharge                     |
| MS-MRY-04C<br>(Polishing Waste Stabilization Pond)          | N/A           | N/A           | No discharge                     |
| MS-03<br>(Mine Site Bulk Fuel Storage Facility Stormwater)  | N/A           | N/A           | No discharge                     |
| MS-03B<br>(Mine Site Bulk Fuel Storage Facility Stormwater) | N/A           | N/A           | No discharge                     |
| MS-04<br>(Mine Site Fuel Unloading Station Stormwater)      | N/A           | N/A           | No discharge                     |

| Monitoring Program Station   | Sampling Date | Lab ID Number | Comment         |
|--|---------------|---------------|-----------------|
| MS-05<br>(Mine Site Landfarm Facility)                               | N/A           | N/A           | Not constructed |
| MS-06<br>(Ore Stockpile Pond Stormwater)                             | N/A           | N/A           | No discharge    |
| MS-07<br>(Run of Mine Ore Stockpile Pond Stormwater)                 | N/A           | N/A           | Not constructed |
| MS-08<br>(Mine Waste Rock Stockpile Pond)                            | N/A           | N/A           | No discharge    |
| MS-09<br>(Waste Rock Stockpile East Pond)                            | N/A           | N/A           | No discharge    |
| MS-MRY-6<br>(Exploration Camp Bulk Fuel Storage Facility Stormwater) | N/A           | N/A           | No discharge    |
| MS-MRY-09<br>(Deposit 1 Surface Water Drainage)                      | N/A           | N/A           | No flow         |
| MS-MRY-10<br>(Deposit 1 Surface Water Drainage)                      | N/A           | N/A           | No flow         |
| MS-MRY-13A<br>(Downstream Non-Hazardous Landfill)                    | N/A           | N/A           | No flow         |
| MS-MRY-13B<br>(Downstream Non-Hazardous Landfill)                    | N/A           | N/A           | No flow         |
| MS-C-A<br>(Downstream of Construction and Borrow Areas)              | N/A           | N/A           | No flow         |
| MS-C-B<br>(Downstream of Construction and Borrow Areas)              | N/A           | N/A           | No flow         |
| MS-C-C<br>(Downstream of Construction and Borrow Areas)              | N/A           | N/A           | No flow         |
| MS-C-D<br>(Downstream of Construction and Borrow Areas)              | N/A           | N/A           | No flow         |
| MS-C-E<br>(Downstream of Construction and Borrow Areas)              | N/A           | N/A           | No flow         |
| MS-C-F<br>(Downstream of Construction and Borrow Areas)              | N/A           | N/A           | No flow         |

| Monitoring Program Station                              | Sampling Date | Lab ID Number | Comment |
|---|---------------|---------------|---------|
| MS-C-G<br>(Downstream of Construction and Borrow Areas) | N/A           | N/A           | No flow |
| MS-C-H<br>(Downstream of Construction and Borrow Areas) | N/A           | N/A           | No flow |
| MQ-C-A<br>(Downstream of QMR2 Quarry)                   | N/A           | N/A           | No flow |
| MQ-C-B<br>(Downstream of QMR2 Quarry)                   | N/A           | N/A           | No flow |
| MQ-C-D<br>(Downstream of QMR2 Quarry)                   | N/A           | N/A           | No flow |
| <b>Steensby Port</b>                                    |               |               |         |
| Steensby Exploration Camp is presently inactive.        | N/A           | N/A           | N/A     |

**Table 2.1: Water Quality Results for Water Licence Monitoring Location - MP-01**

| Analyte                 | Sample ID                |       |                       | MP-01            | MP-0101          |
|-------------------------|--------------------------|-------|-----------------------|------------------|------------------|
|                         | ALS Laboratory Sample ID |       |                       | L2526083-2       | L2526083-3       |
|                         | Sample Date & Time       |       |                       | 2020-11-04 13:30 | 2020-11-04 13:30 |
|                         | QA/QC Sample Type        |       |                       | N/A              | Field Duplicate  |
|                         | Units                    | LOR   | Criteria <sup>1</sup> |                  |                  |
| pH                      | pH units                 | 0.10  | 6.0 - 9.5             | 7.69             | 7.75             |
| Total Suspended Solids  | mg/L                     | 3.0   | 120                   | <3.0             | <3.0             |
| Ammonia, Total (as N)   | mg/L                     | 0.010 | -                     | 0.020            | 0.020            |
| Total Kjeldahl Nitrogen | mg/L                     | 0.050 | -                     | 1.34             | 1.19             |
| Phosphorus, Total       | mg/L                     | 0.030 | -                     | 9.30             | 9.18             |
| Fecal Coliforms         | CFU/100 mL               | -     | 10,000                | 0                | 0                |
| BOD                     | mg/L                     | 2.0   | 100                   | <2.0             | <2.0             |
| Oil and Grease, Total   | mg/L                     | 2.0   | -                     | <2.0             | <2.0             |
|                         | -                        | -     | No Visible Sheen      | No Visible Sheen | No Visible Sheen |
| Toxicity                | -                        | -     | Not Acutely Toxic     | -                | -                |

**Notes:**

Bold highlight indicates result that exceeded the applicable water quality criteria.

<sup>1</sup> Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 5: Effluent Quality Discharge Limits for Sewage Treatment Facilities to the Ocean.



**Table 2.2: Water Quality Results for Water Licence Monitoring Location - MP-01B**

| Analyte                 | Sample ID                |       |                       | MP-01B           |
|-------------------------|--------------------------|-------|-----------------------|------------------|
|                         | ALS Laboratory Sample ID |       |                       | L2526112-2       |
|                         | Sample Date & Time       |       |                       | 2020-11-04 13:45 |
|                         | QA/QC Sample Type        |       |                       | N/A              |
|                         | Units                    | LOR   | Criteria <sup>1</sup> |                  |
| pH                      | pH units                 | 0.10  | 6.0 - 9.5             | 8.62             |
| Total Suspended Solids  | mg/L                     | 3.0   | 120                   | <3.0             |
| Ammonia, Total (as N)   | mg/L                     | 0.010 | -                     | 0.156            |
| Total Kjeldahl Nitrogen | mg/L                     | 0.050 | -                     | 1.24             |
| Phosphorus, Total       | mg/L                     | 0.030 | -                     | 6.12             |
| Fecal Coliforms         | CFU/100 mL               | -     | 10,000                | 3                |
| BOD                     | mg/L                     | 2.0   | 100                   | <2.0             |
| Oil and Grease, Total   | mg/L                     | 2.0   | -                     | <2.0             |
|                         | -                        | -     | No Visible Sheen      | No Visible Sheen |
| Toxicity                | -                        | -     | Not Acutely Toxic     | -                |

**Notes:**

Bold highlight indicates result that exceeded the applicable water quality criteria.

<sup>1</sup> Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 5: Effluent Quality Discharge Limits for Sewage Treatment Facilities to the Ocean.

**Table 2.3: Water Quality Results for Water Licence Monitoring Location - MS-01**

| Analyte                 | Sample ID                |        |                       | MS-01            | MS-0101          |
|-------------------------|--------------------------|--------|-----------------------|------------------|------------------|
|                         | ALS Laboratory Sample ID |        |                       | L2526115-1       | L2526115-3       |
|                         | Sample Date & Time       |        |                       | 2020-11-04 15:00 | 2020-11-04 15:00 |
|                         | QA/QC Sample Type        |        |                       | N/A              | Field Duplicate  |
|                         | Units                    | LOR    | Criteria <sup>1</sup> |                  |                  |
| pH                      | pH units                 | 0.10   | 6.0 - 9.5             | 7.60             | 7.63             |
| Total Suspended Solids  | mg/L                     | 3.0    | 35                    | <3.0             | <3.0             |
| Ammonia, Total (as N)   | mg/L                     | 0.010  | 4.0                   | 0.100            | 0.103            |
| Total Kjeldahl Nitrogen | mg/L                     | 0.050  | -                     | 4.80             | 0.610            |
| Phosphorus, Total       | mg/L                     | 0.0030 | 4.0                   | 0.675            | 0.660            |
| Fecal Coliforms         | CFU/100 mL               | -      | 1000                  | 0                | 0                |
| BOD                     | mg/L                     | 2.0    | 30                    | <2.0             | <2.0             |
| Oil and Grease, Total   | mg/L                     | 5.0    | -                     | <5.0             | <5.0             |
|                         | -                        | -      | No Visible Sheen      | No Visible Sheen | No Visible Sheen |
| Toxicity                | -                        | -      | Not Acutely Toxic     | -                | -                |

**Notes:**

Bold highlight indicates result that exceeded the applicable water quality criteria.

<sup>1</sup>Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 4: Effluent Quality Discharge Limits for Sewage Treatment Facilities to Freshwater Receiving Environment.

**Table 2.4: Water Quality Results for Water Licence Monitoring Location - MS-01B**

| Analyte                 | Sample ID                |        |                       | MS-01B           |
|-------------------------|--------------------------|--------|-----------------------|------------------|
|                         | ALS Laboratory Sample ID |        |                       | L2526128-1       |
|                         | Sample Date & Time       |        |                       | 2020-11-04 15:30 |
|                         | QA/QC Sample Type        |        |                       | N/A              |
|                         | Units                    | LOR    | Criteria <sup>1</sup> |                  |
| pH                      | pH units                 | 0.10   | 6.0 - 9.5             | 7.93             |
| Total Suspended Solids  | mg/L                     | 3.0    | 35                    | <3.0             |
| Ammonia, Total (as N)   | mg/L                     | 0.010  | 4.0                   | 0.078            |
| Total Kjeldahl Nitrogen | mg/L                     | 0.050  | -                     | 0.840            |
| Phosphorus, Total       | mg/L                     | 0.0060 | 4.0                   | 1.06             |
| Fecal Coliforms         | CFU/100 mL               | -      | 1000                  | 1                |
| BOD                     | mg/L                     | 2.0    | 30                    | <2.0             |
| Oil and Grease, Total   | mg/L                     | 2.0    | -                     | <2.0             |
|                         | -                        | -      | No Visible Sheen      | No Visible Sheen |
| Toxicity                | -                        | -      | Not Acutely Toxic     | -                |

**Notes:**

Bold highlight indicates result that exceeded the applicable water quality criteria.

1 Type A Water Licence (2AM-MRY1325 - Amend. 1) - Table 4: Effluent Quality Discharge Limits for Sewage Treatment Facilities to Freshwater Receiving Environment.



Table 3.1: Flow and Volume Measurements-Part I Item 11 - November 2020

| DATE      | Camp Lake<br>Freshwater for<br>Domestic Use -<br>Daily Water MS-<br>MRY-1 (m³) | Camp Lake<br>Freshwater for<br>Industrial Use -<br>Daily Water MS-<br>MRY-1 (m³) | Treated Sewage<br>Effluent from MS-<br>01 to Discharge<br>Location #1 (m³) | Treated Sewage<br>Effluent from MS-<br>01B to Discharge<br>Location #1 (m³) | Sewage Sludge<br>Removed from<br>Mine Site WWTPs<br>to Incinerator or<br>Disposal Offsite by<br>Backhaul (m³) | Sewage<br>Sludge<br>Removed<br>from Mine<br>Site WWTP<br>to PWSP at<br>Mine Site<br>(m³) | Km 32 Lake<br>Milne Port<br>Camp Daily<br>Water Use for<br>Domestic<br>Purposes MP-<br>MRY-3 (m³) | Km 32 Lake Milne<br>Port Camp Fresh<br>Water Use for<br>Industrial Purposes<br>MP-MRY-3 (m³) | Treated<br>Sewage<br>Effluent from<br>MP-01 to<br>Milne Port<br>(m³) | Treated Sewage<br>Effluent from<br>MP-01B to<br>Milne Port (m³) | Sewage Sludge<br>Removed from Milne<br>Port WWTP to<br>Incinerator or<br>Disposal Offsite by<br>Backhaul (m³) |
|-----------|--|--|--|---|---|--|---|--|--|---|---|
| 1-Nov-20  | 122.4  | 6.0  | 37.0   | 76.1  | 0.9   | 0.0  | 83.9  | 0.0  | 25.0   | 25.7  | 0.3   |
| 2-Nov-20  | 130.5  | 3.4  | 37.0   | 67.5  | 1.2   | 0.0  | 53.9  | 0.0  | 25.0   | 21.1  | 0.0   |
| 3-Nov-20  | 104.6  | 2.2  | 36.0   | 89.4  | 1.2   | 0.0  | 94.6  | 0.0  | 24.0   | 25.7  | 0.2   |
| 4-Nov-20  | 112.5  | 4.3  | 36.0   | 81.1  | 1.1   | 0.0  | 40.9  | 0.0  | 25.0   | 23.9  | 0.0   |
| 5-Nov-20  | 139.5  | 5.2  | 37.0   | 74.0  | 1.1   | 0.0  | 86.0  | 1.3  | 26.0   | 23.5  | 1.0   |
| 6-Nov-20  | 127.2  | 4.3  | 37.0   | 74.0  | 1.1   | 0.0  | 62.7  | 0.0  | 26.0   | 20.4  | 0.5   |
| 7-Nov-20  | 142.7  | 3.4  | 37.0   | 79.2  | 1.1   | 0.0  | 58.1  | 31.8   | 23.0   | 20.0  | 0.3   |
| 8-Nov-20  | 117.7  | 2.6  | 41.0   | 80.6  | 1.0   | 0.0  | 66.6  | 0.0  | 25.0   | 22.3  | 0.3   |
| 9-Nov-20  | 136.8  | 8.6  | 41.0   | 87.1  | 1.1   | 0.0  | 70.4  | 0.0  | 25.0   | 20.3  | 1.5   |
| 10-Nov-20 | 102.0  | 2.6  | 36.0   | 91.6  | 1.2   | 0.0  | 72.3  | 0.0  | 21.0   | 28.6  | 0.3   |
| 11-Nov-20 | 124.9  | 10.6   | 36.0   | 86.1  | 1.2   | 0.0  | 83.2  | 0.0  | 25.0   | 15.3  | 1.0   |
| 12-Nov-20 | 113.2  | 5.2  | 40.0   | 76.2  | 1.1   | 11.0   | 84.8  | 0.0  | 25.0   | 28.8  | 0.0   |
| 13-Nov-20 | 124.0  | 2.6  | 43.0   | 84.2  | 1.2   | 22.0   | 70.9  | 0.0  | 21.0   | 25.0  | 1.5   |
| 14-Nov-20 | 95.2   | 2.6  | 38.0   | 77.3  | 1.0   | 11.0   | 81.9  | 0.0  | 21.0   | 11.6  | 0.3   |
| 15-Nov-20 | 96.0   | 2.6  | 34.0   | 70.9  | 1.5   | 0.0  | 59.8  | 0.0  | 25.0   | 27.5  | 1.3   |
| 16-Nov-20 | 106.0  | 3.4  | 36.0   | 69.7  | 1.2   | 0.0  | 46.5  | 0.0  | 25.0   | 24.2  | 0.3   |
| 17-Nov-20 | 129.8  | 3.4  | 36.0   | 60.7  | 1.2   | 0.0  | 49.5  | 0.0  | 25.0   | 24.3  | 0.3   |
| 18-Nov-20 | 113.9  | 3.4  | 36.0   | 75.5  | 1.2   | 0.0  | 54.7  | 0.0  | 25.0   | 24.1  | 0.0   |
| 19-Nov-20 | 124.0  | 7.7  | 43.0   | 88.9  | 1.0   | 0.0  | 48.0  | 0.0  | 25.0   | 14.1  | 0.3   |
| 20-Nov-20 | 107.5  | 4.3  | 46.0   | 86.6  | 1.0   | 0.0  | 33.4  | 0.0  | 26.0   | 26.9  | 0.3   |
| 21-Nov-20 | 109.9  | 0.0  | 44.0   | 90.2  | 1.0   | 0.0  | 41.1  | 0.0  | 25.0   | 8.6   | 0.3   |
| 22-Nov-20 | 80.2   | 7.7  | 41.0   | 85.8  | 1.0   | 0.0  | 30.8  | 0.0  | 20.0   | 14.4  | 0.3   |
| 23-Nov-20 | 117.0  | 0.0  | 40.0   | 79.3  | 1.2   | 0.0  | 36.6  | 0.0  | 17.0   | 23.3  | 0.3   |
| 24-Nov-20 | 90.7   | 8.6  | 38.0   | 75.5  | 1.2   | 0.0  | 40.0  | 0.0  | 10.0   | 6.2   | 0.3   |
| 25-Nov-20 | 123.4  | 0.0  | 34.0   | 75.5  | 1.2   | 0.0  | 48.1  | 0.0  | 25.0   | 23.7  | 1.2   |
| 26-Nov-20 | 103.4  | 12.9   | 22.0   | 96.8  | 1.2   | 0.0  | 40.1  | 0.0  | 25.0   | 14.8  | 0.3   |
| 27-Nov-20 | 117.9  | 1.3  | 33.0   | 86.9  | 1.0   | 0.0  | 39.6  | 0.0  | 21.0   | 13.9  | 0.3   |
| 28-Nov-20 | 97.2   | 7.7  | 13.0   | 83.4  | 1.0   | 0.0  | 42.9  | 0.0  | 25.0   | 13.9  | 0.2   |
| 29-Nov-20 | 111.0  | 7.7  | 22.0   | 85.4  | 1.0   | 0.0  | 36.2  | 0.0  | 25.0   | 12.7  | 0.2   |
| 30-Nov-20 | 99.7   | 17.2   | 36.0   | 84.7  | 0.3   | 0.0  | 48.4  | 0.0  | 19.0   | 16.0  | 0.2   |
| Total     | 3,420.7  | 151.6  | 1,086.0  | 2,420.2   | 33.0  | 44.0   | 1,705.9   | 33.1   | 700.0  | 600.6   | 12.7  |

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