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January 29, 2020

Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU
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Re: December 2019 – Monthly Monitoring Report for Water Licence 2AM-BOS1835

This report is comprised of monitoring requirements as set out in Part I Item 12 and Schedule I of water licence 2AM-BOS1835.

No activities were conducted under this licence in December.

Site Wide Water Quality Monitoring Program (Part I Item 3 and Schedule I)

Sampling locations monitored under this licence will be established with the Inspector as per Part I Item 3 once these facilities have been constructed.

Flow and Volume Measurements (Part F, Part I and Schedule I)

Table 1. Effluent discharge, December 2019

Facility	Station Code	Discharge Volume (m ³)	Exceedances of Discharge Criteria	Discharge Location	Licence Reference
Contact Water Ponds #1 and #2	BMS-1	0	0	Facility not yet constructed	Part F Item 18, 19(a)
Surge Pond	BMS-2	0	0	Facility not yet constructed	Part F Item 19(d)
Contact Water Treatment Plant	BMS-3	0	0	Facility not yet constructed	Part F Item 5, 21
Reclaim Line from TMAC Contact Water Pond	BMS-4	0	0	Facility not yet constructed	
Non-contact water pond	BMS-5	0	0	Facility not yet constructed	
Landfill Sump	BMS-7	0	0	Facility not yet constructed	Part F Item 19(a)
Sewage Treatment Plant, Effluent	BMS-8	0	0	Facility not yet constructed	Part F Item 4(b, e)
Sewage Treatment Plant, Sludge	NA	0	NA	Facility not yet constructed	Part I Item 5(f)
Landfarm Sump	BMS-9	0	0	Facility not yet constructed	Part F Item 19(b)
Fuel Storage Sump	BMS-11	0	0	Facility not yet constructed	Part F Item 19(b)

Records of visual monitoring of discharge to tundra are maintained on file as per Part I Item 11.

Table 2. Water usage, December 2019

Month	Aimoakatalok Lake					Total Usage
	Domestic Water (m³)	Surface Exploration (m³)	Industrial Usage (m³)	Dust Suppression (m³)	Winter Track (m³)	
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	0	0
May	0	0	0	0	0	0
June	0	0	0	0	0	0
July	0	0	0	0	0	0
August	0	0	0	0	0	0
September	0	0	0	0	0	0
October	0	0	0	0	0	0
November	0	0	0	0	0	0
December	0	0	0	0	0	0
Annual Total	0	0	0	0	0	0
Annual Allowance	33,000		450,000		20,000	503,000

As permitted by water licences Part E Item 1 and Part I Item 5(a-c).

Table 3. Volume of Reclaim Water from the Tailings Dewatering for Process Water, December 2019

Month	Reclaim Water (m³) *
January	0
February	0
March	0
April	0
May	0
June	0
July	0
August	0
September	0
October	0
November	0
December	0
Annual Cumulative	0

* As per Part E Item 4 and Part I Item 5(d)
 Numbers rounded to the nearest cubic meter.

Table 4. Waste Rock and Process Volumes, December 2019

Month	Waste Rock Management					Ore Processing and Tailings Management		
	Produced from Mining Activity (tonnes)	Backfilled Directly to Underground Stopes (tonnes)	Returned Underground from Temporary Waste Rock Pile* (tonnes)	Moved to Temporary Waste Rock Pile (tonnes)*	Cumulative on Temporary Waste Rock Pile (tonnes)*	Quantity of Ore Processed** (tonnes)	Total Area of Dry Tailings Placed in TIA** (m ²)	Total Dry Detoxified Tailings Placed Underground** (tonnes)
January	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0
Cumulative Total	0	0	0	0	0	0	0	0

* As per Part I Item 5(e)

** As per Part I Item 6

Waste Management (Part F Item 11 and 12)

No hazardous waste was generated and no waste was backhauled for offsite disposal under this licence in December.

Summary of Assessments of Water Balance and Water Quality Model (Part I Item 12(c))

Operations have not yet begun under this licence at this time. Average monthly water quality, hydrologic, and climatic monitoring data will be collected and used to assess the water and load balance model to allow comparison to model predictions once operations have begun under this licence.

Thermal Monitoring (Part I Item 7 and Schedule I)

Thermal monitoring undertaken as per Part I Item 7 and Schedule I is reported in the annual Geotechnical Report.

Site Freshet and Precipitation Conditions (Part I Item 12(d))

Infrastructure identified under this licence has not yet been constructed. No monitoring has been conducted at this time.

Incident Reporting

No incidents pertaining to this licence occurred this month.

Should there be any questions regarding this monthly report, please contact enviro@tmacresources.com.

Yours sincerely,



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