



July 25, 2019

Richard Dwyer  
Manager of Licencing  
Nunavut Water Board  
PO Box 119  
Gjoa Haven, NU  
X0B 1J0

**Re: June 2019 Monthly Monitoring Report for Water Licence 2AM-BRP1831**

Dear Richard,

This report is provided by Sabina Gold and Silver Corp. (Sabina) to address the requirements of Part I, Item 18 of the Back River Project (the Project) Type A water licence 2AM-BRP1831 (the Licence).

These requirements include:

- All data and information required by Part I and Tables of Schedule I;
- An assessment of data to identify areas of non-compliance with regulated discharge parameters referred to in this Licence; and
- Documentation of conditions during spring freshet, major rain events, and periods of sustained precipitation including flow measurements, photographs, and notes.

Clauses under Part I of the Licence specifically applicable to monthly monitoring include Items 4, 8, 9, 12, and 20. These items are addressed individually below as are the tables of Schedule I. It is noted that, at this time, activities have not yet commenced under this Licence with the exception of winter ice road construction which was initiated in January of 2019 and completed in May 2019.

**Part I, Item 4 Monitoring Program as outlined in Schedule I Tables 1 and 2**

An overview of monitoring activity by station is provided in Table 1 located at the end of this report. The majority of the sampling required under Schedule I Table 2 of the Licence was not applicable this month as activities under this licence have not yet been initiated.

**Part I, Item 8 Monthly Volumes of Water Used and Discharge of Greywater, Sewage Sludge, Effluent and Contact Water**

In June of 2019 no water was withdrawn or discharged under this licence.

**Part I, Item 9 Monthly Quantity of Landfill, Landfarm, Waste Rock, Tailings Deposited and Ore Stockpiled and Processed**

No waste was deposited in the Landfarm this month. The landfill, waste rock piles, and tailings storage area have not been constructed at this time, and no ore has been mined under this Licence.

**Part I, Item 12 Monitoring During Discharge at BRP-15, 16, 43-45, 49, or 51**

Many of these facilities have not yet been constructed, no water was discharged from these stations this month. See details for each station in Table 1 of this report.

**Part I, Item 18 Assessment of Discharge Compliance and Documentation During Freshet and Major/Sustained Rain Events**

No water was discharged under this Licence this month. Sabina representatives were on site from June 19 - June 21 at Goose and from June 19 onward at the MLA this month to assess site conditions during freshet. Flow measurements were collected and well as photographs taken. No discharges or seepages were observed from any facilities during that time. Other aspects of Part I Item 18, namely the requirement to report monthly, are addressed by this report as a whole.

**Part I, Item 20 Additional Monitoring Imposed by Inspector**

No additional monitoring has been requested by the Inspector at this time.

Should you require any additional information please feel free to contact me.

Regards,

Merle Keefe  
Manager, Environmental Permitting  
Sabina Gold & Silver Corp.  
#1800 – 555 Burrard Street  
Vancouver, BC V7X 1M9

**Table 1 Monitoring Activity Overview by Station, June 2019**

Monitoring Program Station	Monitoring Type	Description	Mine Phase	Group Code*	Frequency	Monitoring Activity
BRP-G-01 to BRP-G-TBD	Regulated Monitoring	<b>General Site Runoff</b> Surficial runoff anywhere at both Goose Property and MLA, including quarries; monitoring for erosion and sedimentation.	Construction	C	Weekly if flow enters a waterbody	No flow entering a waterbody was observed this month
BRP-S-01 to BRP-S-TBD	General Monitoring	<b>General Seeps</b> Seepage or runoff from excavated and/or stockpiled material anywhere at both Goose Property and MLA, including quarries, that does not gather into a collection system or the site is reclaimed.	Construction and Operations	A, D	Monthly during flow, or as found	No seepage was observed this month
BRP-01	Regulated Monitoring	<b>Goose Lake Discharge</b> (discharge point for release of dewatering effluent with or without treatment)	Construction	A, B, G	Weekly during dewatering	N/A – dewatering activities have not been initiated
				D	Four times during dewatering, at the same time as the weekly samples	
				H	Once per month during dewatering, at the same time as Group D	
				I	One time during dewatering, at the same time as Group D	
BRP-02	General Monitoring	<b>Llama Lake</b> (intake point for dewatering, triggers need for treatment prior to discharge at BRP-01)	Construction	C (TSS only)	Weekly if treatment is required; no sample if treatment is not required	N/A – dewatering activities have not been initiated
BRP-03	Verification Monitoring	<b>Llama Pit</b> (representative of collected pit water prior to transfer to tailings management facility)	Operations Stage 1 to Operations Stage 2	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-04	General Monitoring	<b>Llama Pit Lake</b> (representative of flooded pit during flooding and before overflow to the downstream)	Closure* to Post-Closure	A, D	Twice per year	N/A – facility construction has not been initiated/ n/a mine phase
BRP-05	Verification Monitoring	<b>Llama WRSA Pond</b> (representative of collected water quality)	Operations Stage 1 to Closure	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-06	General Monitoring	<b>Umwelt Lake</b> (intake point for dewatering, triggers need for treatment prior to discharge at BRP-01)	Construction	C (TSS only)	Weekly if treatment is required; no sample if treatment is not required	N/A – dewatering activities have not been initiated
BRP-07	Verification Monitoring	<b>Umwelt Pit</b> (representative of collected pit water prior to transfer to tailings management facility)	Construction to Operations Stage 2	A, G	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-08	General Monitoring	<b>Umwelt Pit Lake</b> (representative of flooded pit during flooding and before overflow to the downstream environment)	Closure to Post-Closure	A, D	Twice per year	N/A – facility construction has not been initiated/ n/a mine phase

BRP-09	Verification Monitoring	<b>Umwelt WRSA Pond</b> (representative of collected water quality, including landfill seepage/runoff)	Construction to Closure (early)*	A, G	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-10	Verification Monitoring	<b>Primary Water Pond</b> (representative of collected water quality)	Construction to Closure (early)	A, D	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-11	Verification Monitoring	<b>Saline Water Pond</b> (representative of stored water quality)	Construction (late) to Closure (early)	A, D	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-12	General Monitoring	<b>Big Lake Intake</b> (intake point for potable and industrial water withdrawal)	Construction to Closure	A, D	Four times per year	N/A – facility construction has not been initiated
				B	Weekly	
BRP-13	Verification Monitoring	<b>Ore Stockpile Pond</b> (representative of collected water quality)	Construction to Closure (early)	A, D	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-14	Verification Monitoring	<b>ANFO Plant</b> (representative of collected water quality)	Construction to Closure	A, E	At Licensee's discretion	N/A – facility construction has not been initiated
BRP-15	Regulated Monitoring	<b>Goose Fuel Tank Farm</b> (representative of collected water quality)	Construction to Closure	A, E	Prior to discharge or transfer of water	N/A – facility construction has not been initiated
BRP-16	Regulated Monitoring	<b>Goose Hazardous Waste Management Area</b> (representative of collected water quality)	Construction to Closure	A, E	Prior to discharge or transfer of water	N/A – facility construction has not been initiated
BRP-17	Regulated Monitoring	<b>Goose Property Sewage Treatment Plant</b> (discharge point for treated sewage onto land)	Construction to Closure	A, F	Prior to discharge	N/A – facility construction has not been initiated
BRP-17A	Regulated Monitoring	<b>Goose Property Sewage Treatment Plant</b> (discharge point for treated sewage into Tailings Storage Facility or Tailing Facility)	Construction to Closure*	A, F	Prior to discharge	N/A – facility construction has not been initiated
BRP-18	General Monitoring	<b>Llama Watershed Outflow</b> (representative of non-contact water, PN04 from Water and Load Balance)	Operations Stage 1 to Closure	A, D	Once during freshet	N/A- wrong mine phase
BRP-19	General Monitoring	<b>Echo Outflow</b> (representative of non-contact water). PN09 from water and load balance	Operations Stage 1 to Closure	A, D	Once during freshet	N/A- wrong mine phase
BRP-20	Verification Monitoring	<b>Echo Pit</b> (representative of collected pit water prior to transfer to tailings management facility)	Operations Stage 2	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-21	General Monitoring	<b>Echo Pit Lake</b> (representative of flooded pit during flooding and before overflow to the downstream environment)	Closure to Post-Closure	A, D	Twice per year	N/A – facility construction has not been initiated/ n/a mine phase
BRP-22	Verification Monitoring	<b>Echo WRSA Pond</b> (representative of collected water quality)	Operations Stage 2 to Closure (early)	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-23	General Monitoring	<b>Gander Pond Outflow</b> (representative of non-contact water, PN07 from Water and Load Balance)	Operations Stage 1 to Closure	A, D	Once during freshet	N/A mine phase
BRP-24	General Monitoring	<b>Goose Lake Intake</b> (intake point for potable and industrial water withdrawal)	Operations Stage 1 to Closure (early)	B	Weekly	N/A- no water withdrawn

BRP-25	Verification Monitoring	Goose Pit (representative of collected pit water prior to transfer to tailings management facility)	Operations Stage 1 to Operations Stage 2	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-26	General Monitoring	Goose Pit Lake (representative of flooded pit during flooding and before overflow to the downstream environment)	Closure* to Post-Closure	A, D	Twice per year	N/A – facility construction has not been initiated/ n/a mine phase
BRP-27	Verification Monitoring	Goose Main Tailings Facility (intake point for water treatment, represents pre-treatment water quality)	Operations Stage 3 to Closure	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-28	Verification Monitoring	Goose Main Tailings Facility (discharge point for water treatment, represents post-treatment water quality)	Operations Stage 3 to Closure	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-29	Verification Monitoring	TSF WRSA Pond (representative of collected water quality, including landfill seepage/runoff)	Operations Stage 1 to Closure	A, G	At Licensee's discretion	N/A – facility construction has not been initiated/ n/a mine phase
BRP-30	General Monitoring	Goose Southeast Inflow (representative of non-contact water, PN06 from Water and Load Balance)	Operations Stage 1 to Closure	A, D	Once during freshet	N/A mine phase
BRP-40	General Monitoring	Bathurst Inlet Intake (intake point in marine environment for potable and industrial water withdrawal)	Construction to Closure	A, D, B	At Licensee's discretion	N/A – water was not desalinated under this Licence this month
BRP-41	General Monitoring	Bathurst Inlet Discharge (discharge point in marine environment for effluent from desalinization plant)	Construction to Closure	A, J	At Licensee's discretion	N/A – water was not desalinated under this Licence this month
BRP-42	Regulated Monitoring	MLA Greywater (discharge point for treated greywater onto land)	Construction to Closure	A, F	Prior to discharge or transfer of water	N/A – Water was not discharged under this Licence this month.
BRP-43	Regulated Monitoring	MLA Fuel Tank Farm (representative of collected water quality)	Construction to Closure	A, E	Prior to discharge or transfer of water	N/A – facility construction has not been initiated
BRP-44	Regulated Monitoring	MLA Landfarm (representative of collected water quality)	Construction to Closure	A, E	Prior to discharge or transfer of water	N/A – facility construction has not been initiated
BRP-45	Regulated Monitoring	MLA Hazardous Waste Management Area (representative of collected water quality)	Construction to Closure	A, E	Prior to discharge or transfer of water	N/A – facility construction has not been initiated
BRP-49	Regulated Monitoring	MLA Temporary Fuel Storage Facility (representative of collected water quality)	Construction	A, E	Prior to discharge or transfer of water	N/A - no water was discharged from this facility this month
BRP-51	Regulated Monitoring	Goose Landfarm (representative of collected water quality)	Construction to Closure	A, E	Prior to discharge or transfer of water	N/A - no water was discharged from this facility this month
BRP-52	General Monitoring	MLA Pond S1 (intake point for potable and industrial water withdrawal)	Construction to Closure	A, D	Once per quarter when in use	N/A - water was not withdrawn from this location this month
				B	Weekly when in use	
BRP-53	General Monitoring	MLA Pond S2 (intake point for potable and industrial water withdrawal)	Construction to Closure	A, D	Once per quarter when in use	N/A - water was not withdrawn from this location this month
				B	Weekly when in use	
BRP-54	General	MLA Lake 3 (intake point for potable and industrial water	Construction to	A, D	Once per quarter when in use	N/A - water was not withdrawn from this

BRP-54	Monitoring	potable and industrial water withdrawal)	Closure	B	Weekly when in use	withdrawn from this location this month
BRP-55	General Monitoring	MLA Lake 4 (intake point for potable and industrial water withdrawal)	Construction to Closure	A, D	Once per quarter when in use	N/A - water was not withdrawn from this location this month
				B	Weekly when in use	
BRP-I-01 to BRP-I-TBD	General Monitoring	Interconnection Winter Ice Road Proximal Water Bodies (intake points for fresh water used in the construction of the Interconnection Winter Ice Road)	Construction to Closure	B	Weekly when in use	No water was used for ice road construction this month

\* Refers to Group Code from Water Licence 2AM-BRP1831 Schedule I Table 1