

Department of Energy, Mines & Resources PO Box 2703, Whitehorse, Yukon Y1A 2C6

File No: LQ00528

October 19, 2020

Tintina Mines Itd. 82 Richmond Street East Toronto, ON M5C 1P1

Dear Sir/Madam:

Re: Class 3 Quartz Mining Land Use Approval

Your application for a Class 3 approval has been approved and is subject to the attached conditions. The effective date of this approval will be October 19, 2020. All work, including restoration, must be completed by October 18, 2030. and inspected before full security and/or completion certificates can be applied for.

The attached 'Operational Guidelines' offer additional mitigations that would enable you to maximize the environmental performance of your program, but are not approval conditions.

Please ensure that pre-season and post-season reports are provided before and after each exploration season. Pre- and post-season reports assist the Mineral Resources Branch in monitoring exploration activity and reclamation. Not providing reports may result in additional security being required.

Please feel free to contact our office at 867-667-3107 should you have any questions.

Regards,

Bobbie Milnes

Chief of Mining Land Use

EMR Natural Resources Officer, Compliance Monitoring and Inspections cc: ENV Environmental Affairs, Environmental Protection Branch



MINING LANDS

MINERAL RESOURCES BRANCH GOVERNMENT OF YUKON

Pursuant to the Quartz Mining Act and Quartz Mining Land Use Regulation, the Chief, Mining Land Use hereby grants a Class 3 approval to:

Tintina Mines Ltd 82 Richmond Street East Toronto, ON M5C 1P1

APPROVAL NUMBER:	LQ00528
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PROPERTY NAME: Red Mountain

UNDERTAKING: Quartz

CLASS: Class 3 Approval

EFFECTIVE DATE: October 19, 2020

EXPIRY DATE: October 18, 2030

This approval shall be subject to the restrictions and conditions contained herein and to the restrictions and conditions contained in the Quartz Mining Act and the Quartz Mining Land Use Regulation made there under as proposed in Mining Land Use Application.

Dated this October 19, 2020

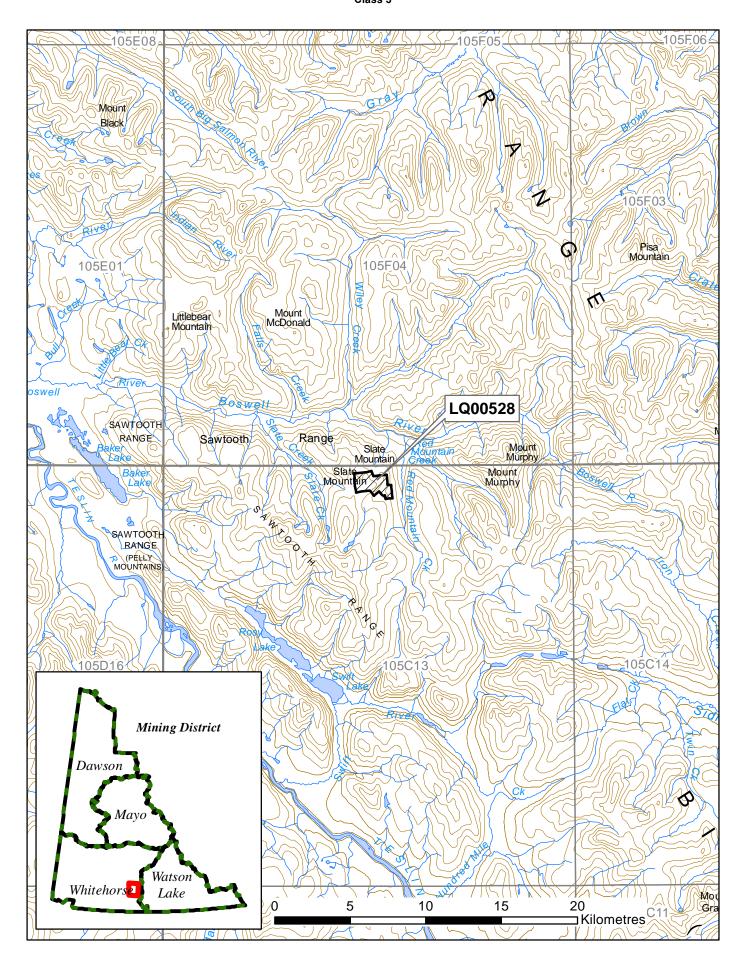
Bobbie Milnes

Chief of Mining Land Use

SCOPE OF APPRO	VAL:								
Claim Status Report ((Appendix A)								
Operating Season May 1 st to November 30 th									
PROJECT ACTIVIT	IES (ON-CLAI	M):							
USE OF VEHICLES	/EQUIPMENT								
Use of vehicles on existing roads or trails							∘ No • Yes		
Gross vehicle weight						oads: ore than 0 t	On-tra Le 20	ss than	
Off-road use of vehicles in summer							• No	∘ Yes	
Off-road use of vehic	les in winter						• No	o Yes	
NEW & EXISTING	ACCESS								
Upgrading of existing access				• Yes	Leng	th: 2 km	Width: 3 m		
New roads			o No	• Yes	Leng	th: 5 km	Width	n: 3 m	
New trails				o Yes	Length: 0 km		Width	n: 0 m	
New temporary trails			• No	o Yes	Leng	Length: 0 km Widt		n: 0 m	
Other new access: N/	Ά								
LINES & CORRIDO	RS								
Lines			o No	• Yes	Leng	th:20kms	Width	n: 1.5 m	
Corridors			• No	o Yes	Length: 0 km Width: 0		n: 0 m		
SITE PREPARATIO	N								
Number of clearings per claim: 10 Area: 2000 m ²									
Number of clearings for helicopter pads and camps: 0 Area: 0 m ²									
Removal of the veget	ative mat						o No	• Yes	
EXPLORATION TR	ENCHING & B	ULK SAMPLING							
Hand-dug							• No	∘ Yes	
Mechanized							• No	o Yes	
Number: 0	Length: 0 m	Width: 0 m	Depth: 0 m Total vo			Total volu	ume: 0 m³		
Bulk sampling •			• No	No ∘ Yes Amoun			/year: 0 tonnes		
Explosives • No · Yes				Total amount: 0 kg Max. in				30 days: 0 kg	
EXPLORATION DRILLING									
TYPE NUMBER OF					DEPTH (m)				
Reverse Circulation 40						1000	10000		
Diamond 40 10000					00				

FUEL STORAGE							
FUEL TYPE		GE TYPE & ACITY	TOTAL VOLUME				
Diesel	Envirotan	k 10,000 L	10,000 L				
Gasoline	Drum 205 L		2,050 L				
Propane	Tank 500 lb		1,000 lb				
FACILITIES & STRUCTURES							
Camp structures: Tent camp							
Number of persons in camp at any o	Number of person days: 1900						
Construction of underground structures ● No ○ Yes							
Amount per year: 0	Amount per program: 0						

All other applicable legislation, regulations, laws, by-laws and ordinances must be complied with. Additional authorizations or approvals may be required. Any doubt as to whether an additional authorization or approval is required should be verified by a duly authorized official at the appropriate government body or bodies.



DEFINITIONS

- "Act" means the Quartz Mining Act, S.Y. 2003, c.14;
- "Access road" means a road that provides access to a public highway or to a private road;
- "Adverse effects" of an exploration program means its adverse environmental or socioeconomic effects and any adverse effects it may have on the existing or asserted aboriginal or treaty rights of any First Nation;
- "Chief" means the Chief of Mining Land Use designated pursuant to the Act;
- "Clearing" means an area that is cleared of trees, brush or vegetative mat for the purpose of establishing a campsite or carrying out mining exploration, but does not include an area cleared for the purpose of establishing a corridor or trail; tr5
- "Corridor" means a path from which trees and brush have been cut to accommodate a water line, fuel line or power line;
- "Effective date" means the date this Approval comes into force as evidence by the date of the signature of the Chief;
- **"Exploration program"** means any activity or group of activities undertaken for the sole or principal purpose of assessing land for its suitability for the production of minerals;
- **"Foundation"** means the part of a structure that penetrates the ground and supports the structure;
- "Isolated road" means a road that does not provide access to a public highway directly or through a private road;
- "Inspector" means an inspector designated pursuant to the Act;
- "Line" means a line cut for the purpose of carrying out a geophysical, geological, or engineering survey:
- **"Low ground pressure vehicle"** means a vehicle that applies 35 kPa of pressure or less to the ground surface;
- "Operator" means a person who is engaging in an exploration program, or in development or production;
- "Person-day" in respect of the use of a campsite, means the use of the campsite by one person during a period of 24 hours;
- "Response" means a notice given by the Chief that indicates whether or not an exploration program may be carried out or that extends the time for the Chief's review of a Notification or operating plan;
- "Road" means a pathway for vehicular traffic the construction of which requires the movement of rock or earth;
- "Site" means the area bounded by the sum of the mineral claims described above under 'Scope of Approval';
- "Summer" means the period of a year that is not winter;
- "Trail" means an access to a site within a claim or lease that is constructed with little or no movement of rock or earth; and

- "Trenching" means excavation carried out on a mineral claim for the purpose of obtaining geological information;
- "Upgrading", in relation to a road, means re-establishing a road that has not been useable for more than five years by vehicles of a type the road was originally designed to serve, modifying a road to provide usability for vehicles that are of a different type than those for which the road was originally designed to serve and any other upgrading or modifying of a road, other than for maintenance or erosion control;
- "Vegetative mat" means the organic surface of soil, characterized by the accumulation of organic matter, or partly decomposed organic matter, derived mainly from leaves, twigs, and woody materials, and includes the root mass of living vegetation;
- "Winter" means the period of the year during which (a) the ground is frozen sufficiently to support a vehicle, other than a low ground pressure vehicle, without rutting or gouging of the surface; and (b) there is a sufficient amount of snow on the ground to produce a packed base of 10 cm.

PART ONE - GENERAL REQUIREMENTS

Duration of Approval

1.0 This approval is valid upon signature of the Chief until the expiry date. In the event that claims lapse, or that agreements to operate on claims are dissolved, the approval becomes null and void for that portion of the operating plan, where there is no right to the minerals.

Compliance with Operating Conditions

1.1 All mineral exploration activities must comply with the Operating Conditions contained in Schedule 1 of the Quartz Mining Land Use Regulation and within the approval. Where there is a difference between the operating conditions and approval, the terms of this approval shall prevail. These Operating Conditions are enforceable.

Reporting Requirements

Contact Information

1.2 Submissions and reports to the Chief should be made to both the following addresses:

Chief, Mining Land Use Mining Lands Officer

Box 2703, K-9 Room 102 - 300 Main Street
Whitehorse, Yukon Whitehorse, YT Y1A 2B5
Y1A 2C6 whitehorse.mining@gov.yk.ca

1.3 The contact for the operator will be:

Tintina Mines Ltd. 82 Richmond Street, E Toronto, ON, M5C 1P1

eferrari@tintinamines.com and dhernandez@tintinamines.com

Pre-season and Post-season Reporting

- 1.4 A pre-season report shall be submitted no later than March 31st outlining the exploration activities planned for the season including the proposed locations.
- 1.5 A post-season report shall be submitted no later than December 31st indicating exploration activities completed during that season. This report shall include but is not limited to:
 - detailed mapping of all areas worked;
 - location of new construction;
 - new areas of disturbance:
 - map data, in the form of SHP files or GIS compatible, of all new roads and trails;
 - map data, in the form of SHP files or GIS compatible, of all reclaimed roads and trails;
 - areas of permafrost encountered;
 - total disturbed area;

- pre-activity survey results, if applicable;
- reclamation activities; and
- documentation produced by environmental monitors.
- 1.6 The operator shall contact the Southern Lakes Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 456-3877 at least 14 days prior to commencing the field season.
- 1.7 The operator shall contact the Southern Lakes Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 456-3877 at least 14 days prior to leaving the site at the end of the operation.

Spill Reporting

- 1.8 All spills must be reported immediately to the 24-Hour Yukon Spill Reporting Line (867) 667-7244 and to the Southern Lakes Mining Inspections Office (Compliance, Monitoring and Inspections) at (867) 456-3877.
- 1.9 An operator who takes an emergency remedial measure shall, as soon as possible but not later than 10 days after taking it, send a written report to the Chief describing the duration, nature and extent of the emergency and the measures taken to respond to it.

Heritage Reporting

- 1.10 All paleontological resources uncovered during operations shall be reported to the Yukon Paleontology Program, Government of Yukon in Whitehorse at (867) 667-8089 or (867) 667-5386 and the Chief.
- 1.11 All archaeological resources uncovered during operations shall be reported to the Yukon Archaeology Program, Government of Yukon in Whitehorse at (867) 667-3771 or (867) 667-5386 and the Chief.
- 1.12 The report(s) developed for Section(s) 2.1, shall be submitted to Government of Yukon Heritage Resources Unit, Cultural Services Branch.

Wildlife Reporting

1.13 All incidents with wildlife shall be reported to the District Conservation Officer in Teslin at (867) 390-2685

PART TWO - PROJECT SPECIFIC OPERATING CONDITIONS

Schedule 1 Operating Conditions (Appendix B)

The operator is bound by the Schedule 1 Operating Conditions per the Quartz Mining Land Use Regulation. In addition to the Schedule 1 Operating Conditions, the operator must also comply with the following terms and conditions:

Heritage Resources

- 2.0 The Operator shall contact Heritage Resources Unit (867-456-6102) and Teslin Tlingit Council well in advance (during the early planning stages) of any off-claim road upgrades in order to determine whether there is potential for adverse effects to heritage resources.
- 2.1 A heritage resources impact assessment (HRIA) shall be completed in advance of ground-disturbing activities in areas with elevated potential for the presence of heritage resources. To effectively mitigate significant adverse effects to Teslin Tlingit Council, the Operator shall conduct the HRIA in consultation with Teslin Tlingit Council.
- 2.2 Upon discovery of a heritage resource within the project area, the Operator shall notify the Heritage Department of the Teslin Tlingit Council in addition to Government of Yukon, Chief of Mining Lands and Yukon Heritage.

Erosion Control and Permafrost

- 2.3 The operator shall insulate the ground surface beneath all temporary structures and temporary facilities used in the project where permafrost is present to:
 - a) prevent any vegetation from being removed; and
 - b) prevent the ground from settling or eroding.
- 2.4 The Operator shall implement effective temporary and permanent erosion and sedimentation measures on all disturbed areas within the Swift River and Sidney Creek drainage areas and monitor regularly to ensure successful reclamation and soil stability.

Trenching

- 2.5 Open trenches shall be sloped at one end to avoid entrapment of wildlife.
- 2.6 The operator must ensure that all employees and contractors working at the trench sites are aware of the operating conditions for trenching.

Solid Waste

2.7 The Operator shall store all attractants, including garbage, kitchen waste and strained solids from grey water in a container that prevents access by bears and other wildlife, until properly disposed of according to the Solid Waste Regulation or burned daily to ash by forced air and fuel fired incineration according to the Air Emissions Regulations.

- 2.8 The Operator shall install a portable electric fence around the perimeter of camp, or at the very minimum, around the kitchen, food preparation area, incinerator, and waste disposal area of the camp.
- 2.9 When burning kitchen waste on site it must be burned regularly to reduce odours that might attract wildlife and be burned to ash by forced air or fuel fired incineration.

Petroleum Fuel and Hazardous Substances

- 2.10 The operator shall, with indelible marker or paint, clearly identify the owner, the contents and the date on fuel drums to establish and manage ownership and responsibility.
- 2.11 All fuel cache(s) must be protected with an earthen berm or suitable barrier and flagged to prevent spills resulting from accidental contact with heavy equipment. Flags should be visible above the snow pack.
- 2.12 The location of any spills shall be clearly marked until cleanup has taken place. Location markings shall not be removed until directed in writing by an Inspector.

Drilling

2.13 The operator must ensure that all employees and contractors working at the drill sites are aware of the operating conditions for drilling.

Wildlife

- 2.14 Prior to commencing work in the project area, the Operator submit a Wildlife Management Plan for review and approval by the Chief, Mining Land Use. This plan shall be reviewed again by the Chief, Mining Land Use in year 5 for continued effectiveness. The Wildlife Management Plan shall include, but not be limited to: a. mitigation measures to prevent wildlife disturbance and mortality on claim and along the access road, and; b. monitoring, recording and reporting of wildlife sightings.
- 2.15 If caribou are observed within 1 km of active work areas, activities shall cease until the caribou have moved away on their own accord.

Mineral Lick

2.16 If a mineral lick is identified within the project area, the Operator shall contact the Chief, Mining Lands in Whitehorse for an appropriate set-back distance.

Access

2.17 Prior to creating any new access the Operator shall create an Access Management Plan for approval by regulators. The plan shall contain, but not be limited to, measures such as; a) erect and maintain on an as-needed basis, appropriate barriers at approximately Km 23

of the access road to prevent gate circumvention; b) restricting public and un-authorized access beyond Km 23 of the access road; c) develop a process to coordinate road use/maintenance with other authorization holders in the area.

PART THREE - RECLAMATION AND/OR DECOMMISSIONING

- 3.0 Reclamation and/or decommissioning shall be progressive in nature where possible and will occur prior to the expiry of the exploration program or prior to the expiry of this approval, whichever comes first, according to standards outlined in the operating conditions, unless otherwise specified by the Chief.
- 3.1 Upon completion of the project, the Operator shall ensure that the Red Mountain Road is effectively decommissioned and reclaimed in a manner that effectively prevents access created by the new portion of the road. Details of access prevention should be provided as part of a decommissioning and reclamation plan for the site and made subject to approval by regulators.
- 3.2 Reclamation and/or decommissioning of roads and trails shall be progressive in nature and shall be documented annually in the post-season report. Reclamation and/or decommissioning of roads and trails shall occur as soon as roads and trails are no longer needed for exploration activities unless the need is documented in the post- and pre-season reports. The status of roads and trails (i.e. active or inactive) including an attributed GPS track of all newly created roads and trails (i.e., road or trail width and surface material) and on-going/completed reclamation activities shall be reported to the Chief, Mining Land Use annually via post-season reports.
- 3.3 Debris, equipment, fuel barrels, scrap metal and other waste at the work site shall be completely disposed of, so as not to attract wildlife, by removal to an authorized disposal site at the cessation of the exploration program or prior to the expiry of the approval, whichever comes first.
- 3.4 Structures must be removed and the site restored at the end of the exploration program or prior to the expiry of this approval, whichever comes first, to a level of utility comparable to its previous level of utility.
- 3.5 If an amendment to this approval or new approval is granted, for the claims within the scope of this approval (Appendix A), all outstanding reclamation continues to be the responsibility of the operator.

PART FOUR - OTHER MATTERS

4.0 Security may be required at any time by the Chief.





Appendix 'A'

LQ00528

Claim Status Report

08 September 2020

Claim Name and Nbr.	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #'s	Grouping	Permit	Settlement Land
BUG 1 - 8	Y 98583 - Y 98590	2021/12/02	Tintina Mines Ltd.	100.00	105C13	HW07210		
BUG 9 - 14	Y 99304 - Y 99309	2021/12/02	Tintina Mines Ltd.	100.00	105C13	HW07210		
BUG 16	Y 99311	2021/12/02	Tintina Mines Ltd.	100.00	105C13	HW07210		
GUB 1 - 2	YA22209 - YA22210	2021/12/02	Tintina Mines Ltd.	100.00	105C13	HW07210		
GUB 42	YA22250	2021/12/02	Tintina Mines Ltd.	100.00	105C13	HW07210		
GUB 44	YA22252	2021/12/02	Tintina Mines Ltd.	100.00	105C13	HW07210		
GUB 46	YA22254	2021/12/02	Tintina Mines Ltd.	100.00	105C13	HW07210		
GUB 65 - 66	YA23648 - YA23649	2021/12/02	Tintina Mines Ltd.	100.00	105C13	HW07210		

Criteria(s) used for search:

CLAIM DISTRICT: WHITEHORSE CLAIM STATUS: ACTIVE & PENDING OWNER(S): TINTINA MINES LTD.

REGULATION TYPE: QUARTZ

Left column indicator legend:

R - Indicates the claim is on one or more pending renewal(s).

P - Indicates the claim is pending.

Right column indicator legend:

L - Indicates the Quartz Lease.

F - Indicates Full Quartz fraction (25+ acres)

P - Indicates Partial Quartz fraction (<25 acres)

D - Indicates Placer Discovery

C - Indicates Placer Codiscovery

B - Indicates Placer Fraction

APPENDIX B

Quartz Mining Land Use Regulation

Schedule 1 Operating Conditions

Removal of the Vegetative Mat

1. If the vegetative mat must be removed to carry out exploration activities, it must be removed so as to protect the seed and root stock contained within the mat and be stored separately from other overburden or bedrock removed for use in re-establishing the vegetative mat when the exploration program ceases.

Re-establishment of the Vegetative Mat

- 2. (1) All vegetated areas disturbed by exploration activities, including fuel and waste storage areas, clearings, corridors, temporary trails, camps and supporting infrastructure, and trenches and drill sites, must be left in a condition conducive to re-vegetation by native plant species or other species adaptable to the local environment to encourage re-vegetation comparable to similar, naturally occurring, environments in the area.
 - (2) Conditions conducive to re-vegetation include provision of adequate soil layer with moisture retaining ability, no soil contamination by hydrocarbons or other hazardous substances, provision of adequate seed or root stock, and contoured or otherwise stable slopes.
- 3. If adequate seed or root stock is not naturally available, re-seeding or transplanting of vegetation is required. Only non-invasive species may be used for re-seeding or transplanting. Consult with the Mining Inspector prior to seeding.

Erosion Control and Permafrost

- 4. All areas disturbed during an exploration program must be re-sloped, contoured or otherwise stabilized to prevent long-term soil erosion, slumping and subsidence.
- 5. All exploration activities must be carried out to avoid or minimize damage to and loss of permafrost.

Trenching

- 6. Trenching carried out by hand or using hand-held tools must be methodical. All trenches must be stabilized and marked to minimize risk to the public.
- 7. Trenches constructed with mechanized equipment must be back filled by first depositing any removed overburden and bedrock and then replacing the vegetative mat that was removed to construct the trench.

Historic Objects and Burial Grounds

- 8. Exploration activities must not be carried out within 30m of a known archeological site unless the Chief indicates, in writing, that such activities may be carried out.
- 9. Any sites containing archeological objects, paleontological objects or human remains or burial sites discovered in the course of carrying out an exploration program must be immediately marked and protected from further disturbance and, as soon as practicable, the discovery reported to the Chief. No further activities may be carried out within 30m of the site until the Chief indicates, in writing, that activities may be resumed.

Solid Waste

- 10. All solid waste, including debris, equipment, barrels, drums, and scrap metal, must be safely stored on the site of the exploration program while the program is carried out and must be disposed of in accordance with the Solid Waste Regulation when the program ceases.
- 11. Camps must be kept clean and tidy.

Petroleum Fuel and Hazardous Substances

- 12. If petroleum fuel storage capacity exceeds 4000 L, a secondary containment structure must be constructed. The containment structure must be made of a material impervious to petroleum products and:
 - a) if there is a single storage tank, be of sufficient size to accommodate at least 110% of the capacity of the storage tank; or
 - b) if there is more than one storage tank, be of sufficient size to accommodate 110% of the capacity of the largest storage tank or 10% of the total capacity of all the tanks, whichever is larger.
- 13. All petroleum products, including waste petroleum products, and any other hazardous substances must be stored in a secure fashion no less than 30m from the ordinary high water mark of any water body.
- 14. All petroleum products, including waste petroleum products, and any other hazardous substance, must be transferred and handled without spillage.
- 15. All petroleum products and any other hazardous substances must be removed from the site of the exploration program when the program ceases.
- 16. All waste petroleum products and any other special waste, as defined in the Special Waste Regulations, generated in the course of carrying out the exploration program must be disposed of in accordance with the Special Waste Regulations when the program ceases.

Spills and Spill Contingency Plans

- 17. A spill contingency plan for petroleum products and other hazardous waste must be prepared and posted in the camp and at all fuel handling locations used in carrying out the exploration program.
- 18. All spill clean-up equipment and material must be maintained in a state of readiness sufficient at all times to contain and clean-up any hazardous material spills.
- 19. If a spill occurs, the spill contingency plan must be immediately implemented and notice given to the 24-hour Yukon Spill Report Line. As soon as practicable, an inspector must be contacted. Whatever remedial action is required to clean-up the spill and reclaim the affected land and water must be taken.

Use of Vehicles

20. Vehicles must be maintained and operated to prevent spills of fuel, lubricants, coolants and oil.

Timber and Brush

- 21. Cut brush must not be piled so that it blocks movement of wildlife or people.
- 22. Leaning trees created by cutting of lines, corridors, temporary trails, and clearings must be felled.
- 23. When it is economically viable to do so, timber suitable for sale must be salvaged and stockpiled.
- 24. All risk of fire hazard must be avoided.

Drilling

- 25. All reasonable efforts must be made when drilling to minimize the impact on wildlife and the public.
- 26. Vegetation other than that within a drill sump, must not be covered with drill cuttings.
- 27. Core must be stored in a stable fashion.
- 28. Drill mud must be re-circulated when possible.
- 29. All drill fluids must be contained in a sump.
- 30. Drill holes that pose a hazard or that lead to ground water must be plugged to prevent flow of water to the surface.

- 31. The location of drill holes must be marked on the ground by flagging or other suitable means at the location of the drill hole.
- 32. Drilling waste, including fluid, cuttings and mud must not be left within 30m of a water body.

Roads, Trails, and Off-road Trail Use

- 33. All vehicles must be operated to avoid rutting and gouging of roads and trails.
- 34. Off road and trail routes must be reconnoitered and must be used in a way that minimizes ground disturbance, including damage to permafrost and sensitive wildlife habitat.
- 35. If rutting, gouging, ponding or permafrost degradation occurs off road or trail, vehicle use must be suspended or relocated to ground that is capable of bearing the weight of the vehicle without causing such damage.
- 36. Use of skids on permafrost or wet ground is only permitted outside of winter where it is not reasonable to use any other means of transporting equipment.
- 37. Routes for temporary trails must be reconnoitered and flagged.
- 38. In addition to any remedial action required in relation to item 2 of this schedule, temporary trails must be blocked to prevent further vehicular access.

Release of Sediment

39. All reasonable care must be taken in carrying out exploration activities near or adjacent to a water body to prevent sediment from entering a water body, unless otherwise permitted by law.

Use of Explosives

40. Explosives must be set off in a manner to minimize impact on wildlife and the public to ensure that forest fires, unplanned landslides, or artificial damming of water bodies does not occur.

Waste Rock

- 41. Waste rock piles must be located at least 30m from any water body and be physically stable.
- 42. Waste rock containing sulfides must be returned underground.
- 43. Access to underground openings must be blocked to prevent access by wildlife and people.

APPENDIX C

Proponent Commitments

- The Proponent further indicated that equipment mobilizing to the site will be clean and free of seeds.
- The Proponent will be setting aside the vegetative mat to reclaim disturbed areas.
- The Proponent will be leaving most areas un-vegetated and scarified to promote natural re-vegetation.
- The Proponent indicated that fuel storage will occur in a bermed and lined containment area located at a distance of at least 30 m away from any watercourse. The Proponent will be following a fuel spill plan where actions will be taken to prevent, reduce, clean and report fuel spills if the event occurs.
- The Proponent has indicated that topsoil and organic mats will be stockpiled for progressive reclamation, silt retention materials and water management structures will be used to mitigate and control erosion effects.
- The Proponent indicated that all best management practices for works near or instream will be followed (Environment Yukon 2019) if culvert removal and replacement is deemed necessary.
- The Proponent identified the following measures taken to complete road decommissioning activities.
 - Flow channels may need to be re-established by matching the undisturbed widths up and downstream of the pipe when removing bridges and culverts. Excavated materials will be incorporated into the surrounding areas while maintaining existing/natural slopes.
 - Existing roadway fill sections will be scarified to promote water infiltration and re-vegetation and re-contoured to approximate grade of its surrounding area.
 Where possible, stored organic materials and/or slash and debris will be spread across the old roadway. Generally seeding roadway sections will not be performed, as re-vegetation on scarified areas is favourable.
 - In deep fill areas, typically that lead to stream crossings where culverts will be removed, the road embankments will be reshaped to the approximate grade of the surrounding topography.

- Where roadway embankments reach approximately 4 m above the culvert crossing, these embankment slopes will be seeded for erosion protection after re-shaping. The Proponent notes that there are a total of 17 culvert crossings with 4 m or more or embankment (2 of these crossings are within the existing mining road up to Km 17.8).
- Areas of deep roadway cuts (up to 12 m), notably between Km 22.75 to Km 22.85 and Km 23.05 and Km 23.09 will be generally seeded for erosion protection seeding will take place in conjunction the active Natural Resource Officer and in reference to the Yukon Re-vegetation Manual (MPERG 2012), particularly in Scenario 2 (Steep Slopes) and Scenario 4 (Highway Right-of-Ways).
- The Proponent will be implementing sediment and erosion control per best practices, maintaining a buffer from the watercourse and implement erosion control measures prior to work starting, maintaining riparian buffers, minimizing watercourse crossings, and avoiding earthmoving works during spring melt of heavy rainfall. Removal of bridges and culverts will be done during low flow times, and outside of fish timing windows for Chinook salmon and Arctic grayling. Temporary diversions will be made to remove culverts in the dry and a qualified biologist will be on site to monitor bridge excavations and salvage fish prior to pumping (when removing culverts).
- The Proponent will be following best management practices as recommended by Government of Yukon (Preferred Practices for Works Affecting Yukon Waters, 2019).
- The Proponent has provided many project design features that reduce or prevent erosion and sedimentation from occurring throughout the temporal scope of the Project (of 10 years).
- The Proponent has committed to progressive reclamation, which ensures that adverse effects to moose from habitat loss and/or alteration are reversible in the medium term.
- The Proponent will be limiting their vehicular speed to 30 km/hr to reduce wildlifevehicular collisions and wildlife encountered along the Red Mountain Road will be given the right of way.
- The Proponent has provided a fuel spill contingency plan in their project proposal indicating how spills will be prevented, minimized, and how to respond to fuel spills when they do occur.
- The Proponent noted that all waste produced from the project will be managed in accordance with the Yukon Wildlife Act.

• The Proponent will be following measures to reduce incidental take of birds. They indicated that any vegetative clearing, particularly trees and shrubs, will be cleared outside of the migratory bird nesting season (May 1 to August 15). If clearing must occur within the migratory bird nest season, nest surveys will be completed by a qualified biologist prior to clearing. Vegetation clearing will occur only once the biologist has conducted the surveys and has indicated that work can proceed.

Operational Guidelines

Exploration activities

The Yukon Chamber of Mines has developed an informative Best Management Practices document that should be reviewed in the context of project activities. The operator should reference the following document when planning and conducting project activities:

 Yukon Mineral and Coal Exploration Best Management Practices and Regulatory Guide (https://www.yukonminers.org/index.php/all-docs/guidebooks/3-yukon-mineral-and-coal-exploration-best-management-practices-and-regulatory-guide/file).

Bears and other wildlife

To increase worker safety, reduce potential conflicts and prevent unnecessary wildlife mortality, the operator should implement pertinent components of:

- Guidelines for Industrial Activity in Bear Country for the Mineral Exploration, Placer Mining and Oil & Gas Industries (https://yukon.ca/sites/yukon.ca/files/env/env-quidelines-industrial-activity-bear-country.pdf).
- If an electric fence is an appropriate precaution, or a requirement, the operator should reference the following comprehensive and highly informative guide: Reducing Wildlife Conflict with Electric Fencing: A Beginner's Guide (https://yukon.ca/sites/yukon.ca/files/env/env-electric-fencing_en.pdf).

Invasive species

To minimize the risk and consequences of spreading invasive plant species the operator should:

 Become familiar with the Yukon invasive species and how to manage them by referring to the Yukon Invasive Species Council document, "Why Should I Care About Invasive Species" (https://www.yukoninvasives.com/index.php/en/resources/brochures/31-why-should-i-care-about-invasive-species/file).

Heritage Resources

To better understand how to manage potential impacts to heritage resources, the operator should refer to the following document(s):

- Mineral Exploration Best Management Practices for Heritage Resources (http://www.tc.gov.yk.ca/pdf/Mineral_Exploration_BMP_for_Heritage_Resources.pdf).
- Best Management Practices for Burial Sites and Human Remains in Yukon (http://www.tc.gov.yk.ca/pdf/BurialSites_BMP_2014.pdf).

Work in/near water

Project activities have the potential to affect water quantity, quality and/or rate of flow. The operator should provide for the protection of water by applying practices described in:

 Best Management Practices for Works Affecting Water in Yukon (https://yukon.ca/sites/yukon.ca/files/env/env-preferred-practices-works-affecting-yukon-waters.pdf).