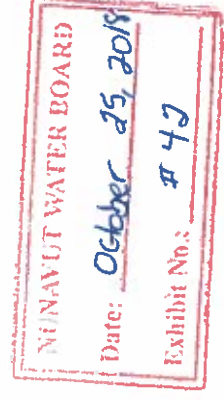


Proposed ZAM BOS
Type A Water Licence Framework

This table outlines TMAC's comments on potential water licence conditions to proceed with the activities and infrastructure associated with the Hope Bay Project (Project), should the Nunavut Water Board (NWB or Board) exercise its jurisdiction and authority under the Nunavut Waters and Nunavut Surface Rights Tribunal Act (NWNRTA or Act) to proceed and issue a licence. This framework incorporates conditions included in Type A Water Licences recently issued by the NWB and includes certain Boston-specific conditions. Under separate cover, TMAC has submitted a blackline for the Board's consideration which suggests amendments to ZAM-DOH1323 which should be made in order to proceed with the Doris and Madrid components of the Project.	
This table reflects information from the Application as well as the current public record (i.e., commitments from information requests, technical comments, and final submissions). Statements and conditions provided in this table are intended to support the NWB and staff in their development of a water licence for the Project.	
Proposed Terms	TMAC Comments and Annotation
Water Licence Cover Sheet Licensee: TMAC Resources Inc. Mailing Address: 95 Wellington Street West, Suite 1010 Box 44 Toronto ON M5J2N7 Water Management Area: Queen Maud Gulf Watershed - 30 Location: Hope Bay Belt Project, Kitikmeot Region, Nunavut Quantity of Water not to Exceed: Potable Water Supply 33,000 m³/year and Industrial 450,000 m³/year as per Part E, quantity for winter road ice construction 20,000m³ as per Part E. Expiry of Licence: 2044-March 30, 2035 Part A: Scope, Definitions and Enforcement 1. Scope a. This License authorizes the Licensee to use Waters and deposit Waste in support of a Mining Undertaking classified as per Schedule 1 of the Regulations, at the Hope Bay Belt Project (Boston) as outlined in the Type "A" Water Licence Application (the Application) submitted to the Nunavut Water Board (NWB) in December 2017 and as revised and reviewed throughout the regulatory process.	TMAC requests that the Water Licence term be issued consistent with the term of the Water and Wildlife Compensation Agreement.
The Licensee may conduct, mining, milling, and associated activities at the Hope Bay Belt Project (Boston) in the Kitikmeot Region of Nunavut, located at the following general geographical coordinates: Project Extents NW: Latitude: (67° 41' 36.837" N) Longitude: (106° 25' 6.135" W) NE: Latitude: (67° 42' 0.724" N) Longitude: (106° 17' 0.131" W) SE: Latitude: (67° 36' 15.834" N) Longitude: (106° 15' 12.879" W) SW: Latitude: (67° 36' 41.368" N) Longitude: (106° 26' 27.016" W) Camp Location(s) Boston: Latitude: (67° 38' 52" N) Longitude: (106° 23' 12" W)	
The activities and facilities included under the scope of this Licence are as described in TMAC's December 2017 application and in any subsequent Modifications and generally as follows:	



**Proposed 2AM BOS
Type A Water Licence Framework**

• construction of an expanded site pad and infrastructure necessary to support production level underground and surficial/crown pillar mining, ore sorting, processing and tailings deposition; • quarries used for site development; • site infrastructure, including overburden stockpile, waste rock stockpile, ore stockpile and contact water ponds, explosives manufacturing facility, camp accommodations and process plant; • water storage; • construction and operation of a Sewage Treatment Plant; • construction and operation of landfills, landfills, and transportation of waste; • construction and operation of an all weather airstrip;	Re CIRNAC Comment 33, TMAC does not object to the inclusion of the industrial process water treatment plant in this list as suggested by CIRNAC, however it is noted that all facilities included in the Application are included in the scope of the Water Licence. TMAC remains of the view that 288 BOS1727 should not be integrated into 2AM BOS. Re CIRNAC Comment 33, see corresponding TMAC comment in 2AM-BOS. Winter roads are included in the Application and TMAC is of the view that the reference belongs in the scope of the Water Licence. Reference to crown pillar recovery is also included in the Application.
• tailings management area; • use of winter roads and all weather roads; • miscellaneous related buildings and infrastructure.	
1 (b) This Licence is issued subject to conditions contained herein with respect to the use of Waters and the deposit of Waste of any type in any Waters or in any place under any conditions where such Waste or any other Waste that results from the deposits of such Waste may enter any Waters. Whenever new Regulations are made or existing Regulations are amended by the Governor in Council under the Act, or other statutes imposing more stringent conditions relating to the quantity, type or manner under which any such Waste may be so deposited, this Licence shall be deemed to be subject to such requirements.	
1(c) Compliance with the terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with all applicable legislation and directives of the Board.	
2. Definitions (a) The Licensee shall refer to Schedule A for definitions of terms used in this Licence.	See "Schedule A".
3. Enforcement	
(a) Failure to comply with this Licence will be a violation of the Act, subjecting the Licensee to the enforcement measures and the defences and penalties provided for in the Act.	
(b) All inspection and enforcement services regarding this Licence will be provided by inspectors appointed under the Act.	
(c) For the purpose of enforcing this Licence and with respect to the use of Water and deposit of Waste by the Licensee, inspectors appointed under the Act, hold all powers, privileges, and protections that are conferred upon them by the Act or by other applicable laws.	Re CIRNAC Comment 35, see corresponding TMAC comment in 2AM-DOH.
Part B: General Conditions	
1. The water use fees amount shall be determined and payment of those fees shall be made in accordance with section 12(6) and 12(7) of the Regulations.	
2. The Licensee shall file an Annual Report with the Board no later than March 31st in the year following the calendar year being reported. The Annual Report shall be developed in accordance with Schedule B.	
3. Any communication with respect to this Licence shall be made in writing to the attention of:	
Manager of Licensing, Nunavut Water Board P. O. Box 119 Gjoa Haven, NU X0B 1J0 Telephone: (867) 360-6338 Fax: (867) 360-6369 Email: licensing@nwb-oen.ca	

**Proposed 2AM BOS
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4. Any notice made to an Inspector shall be made in writing to the attention of: Water Resources Officer Nunavut District, Nunavut Region P.O. Box 100 Iqaluit, NU X0A 0H0 Telephone: (867) 975-4295 Fax: (867) 979-6445 5. The licensee shall submit one (1) electronic copy of all reports, studies, and plans to the Board unless otherwise requested by the Board. Unless otherwise directed by the Board, reports or studies submitted to the Board by the Licensee shall include an executive summary in English, Inuinnaqtun, and Inuktitut.	
6. This Licence is assignable as provided in Section 44 of the Act.	Re CIRNAC Comment 36, see corresponding TMAC comment in 2AM-DOH.
7. The Licensee shall ensure that any document(s) or correspondence submitted by the Licensee to the Board is received and acknowledged by the Manager of Licensing.	
8. The Licensee shall post signs in the appropriate areas to inform the public of the location of the Water Supply Facilities and the Waste Disposal Facilities. All signs must be in English, Inuinnaqtun, and Inuktitut, and shall be located and maintained to the satisfaction of an Inspector.	
9. The Licensee shall, for all Plans submitted under this Licence, include a proposed timetable for implementation. Plans submitted under this licence cannot be undertaken without the subsequent written Board approval or direction. The Board may alter or modify a Plan if necessary to achieve the legislative objectives and will notify the Licensee in writing of acceptance, rejection or alteration of the Plan. With notice to the Board, the Licensee may rename or consolidate Plans listed in this Licence. [Note re CIRNAC Comment 5, requested reference to a timetable has been re-inserted.]	Re: CIRNAC Comment 37, bullet 2 TMAC has made the change.
10. Unless otherwise directed by the Board in writing, if a Plan is not acceptable to the Board, the Licensee shall provide a revised version to the Board for review within thirty (30) days of notification by the Board.	
11. Except as otherwise reflected in this Licence, the Licensee shall, for all plans submitted under this Licence, undertake Plans upon receipt of approval from the Board, or which should occur within 60 days of submission to the Board, unless the Board has set out a different timetable for review and approval of the Plan. The Board has approved the following Plans for implementation under the relevant sections in the Amended Licence: [Note TMAC believes it is important to establish predictable timelines for reviewed and approval of Plans. At present, the timelines are highly variable and extensions to comment periods are routinely sought and granted. This practice makes it very difficult to manage site in a way that reflects the most up to date information and technologies. TMAC requests that the onus be on the Board to approve the Plans or revisions within 60 days, or alternatively set out a process (after hearing from reviewers) which sets out a clear process and timeline for the Board's approval decision.]]	Re CIRNAC Comment 36, see corresponding TMAC comment re CIRNAC Comment 7 in 2AM-DOH.

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(a) Surface Emergency Response Plan (December 2017) (b) Underground Emergency Responses Plan (December 2017) (c) Hope Bay Project Spill Contingency Plan (December 2017) (d) Hope Bay Project Domestic Wastewater Treatment Management Plan (December 2017) (e) Hope Bay Project Groundwater Management Plan (May 2018) (f) Hope Bay Project Boston Water Management Plan (December 2017) (g) Hope Bay Project Boston Tailings Management Area - Operations, Maintenance, and Surveillance Manual (December 2017) (h) Hope Bay Project Waste Rock, Ore and Mine Backfill Management Plan (December 2017) (i) Hope Bay Project Non-hazardous Waste Management Plan (December 2017) (j) Hope Bay Project Hydrocarbon Contaminated Material Management Plan (December 2017) (k) Hope Bay Project Hazardous Waste Management Plan (December 2017) (l) Hope Bay Project Incinerator Management Plan (December 2017) (m) Hope Bay Project Quarry Management and Monitoring Plan (December 2017) (n) Hope Bay Project Aquatic Effects Monitoring Plan (October 2018) (o) Hope Bay Project Boston Conceptual Closure and Reclamation Plan (December 2017) (p) Hope Bay Project Explosives Management Plan (December 2017) (q) Hope Bay Project Quality Assurance and Quality Control Plan (January 2017) (s) Hope Bay Project Water and Ore/Waste Rock Management Plan for Boston Site (t) Boston Sewage Treatment Operations and Maintenance Management Plan	TMAC requests that all of these plans be approved with the issuance of the Type A Water Licence. See updated list per CIRNAC Comment 37.
13. The Licensee shall update and revise for submission to the Board for review and/or approval as required upon the milestones set out below, under the relevant section of this Licence, the following plans and documents. The updates are to take into account commitments made with respect to submissions received during the regulatory review of the Application: a. Non-Hazardous Waste Management Plan to be updated to include appropriate layout drawings of landfill facilities once issue for Construction designs have been prepared, and 60 days prior to operation of the proposed landfill.	Updated per CIRNAC comment 38
14. Every Plan to be carried out pursuant to the terms and conditions of this Licence shall become a part of this Licence, and any additional terms and conditions imposed upon approval of a Plan by the Board, or as otherwise deemed approved in accordance with Part B, Section 12, become part of this Licence. All terms and conditions of the Licence should be contemplated in the development of a Plan where appropriate.	
15. The Licensee shall review the Plans referred to in this Licence, as required by changes in status of the Project, operation and/or technology, and modify the Plan accordingly. Revisions to the Plans may be submitted in the form of an Addendum to be included with the Annual Report or in a revised Plan, as appropriate.	
16. The expiry or cancellation of this Licence does not relieve the Licensee from any obligation imposed by the Licence or any other regulatory requirement. Should this Licence expire or be cancelled, the Licensee is permitted to carry out any obligations imposed by the Licence to the extent required to maintain compliance with the Act.	This wording should match the Act exactly.
17. The Schedules attached to this Licence form part of this Licence and provide instructive details regarding the requirements associated with specific terms and conditions in the main body of the Licence and are included in the Schedule to provide greater clarity and as an aid to interpretation for the Licensee. If the Board subsequently determines that an item in any of the Schedules require revision in order to better reflect the intent and objectives of the Licence, the Board may at its discretion, and upon providing written notice to the Licensee of the revision, revise the item in the Schedule. Unless the Board directs otherwise, such revision will not be considered to be an "amendment" to the Licence.	

**Proposed ZAM BOS
Type A Water Licence Framework**

18. Unless otherwise stated, references in the Licence to any specific legislation, policy, guideline or other regulatory requirement are deemed to refer to the regulatory requirement as may be amended or as may be expressly replaced by successor legislation, policy, guidelines or other regulatory requirements after the Licence is approved by the Minister.																																	
Part C: Conditions Applying to Security It is acknowledged that the total reclamation liability for the Project is \$37,458,491 and is to be managed in accordance with this Part C.																																	
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2. The Licensee shall provide confirmation in writing, in a form acceptable to the Board, that the following specified reclamation security amounts have been furnished to the Kitikmeut Inuit Association as follows:																																	
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Type A Water Licence Framework

3. The Licensee shall furnish and maintain security with the Minister, under Part C, Item 1 pursuant to s.76 of the Act.	
4. The security held by the Kitikmeot Inuit Association under Part C, Item 2 shall be held for the purposes of reclamation consistent with the purposes set out in s. 76(2)(b) of the Act.	
5. Once the Licensee has triggered all tranches set out in Part C, Items 1 and 2, the Licensee shall ensure that the security furnished and maintained under Part C, Items 1 and 2 combined is not less than thirty seven million four hundred fifty thousand four hundred and ninety-one dollars (\$37,458,491).	
6. Within ten (10) days after furnishing security with the Minister under Part C, Item 1, the Licensee shall provide evidence to the NWB and the Kitikmeot Inuit Association, that the security has been received by the Minister, indicating the amount, form, nature and conditions of the security.	
7. Within ten (10) days after furnishing security with the Kitikmeot Inuit Association under Part C, Item 2, the Licensee shall provide written confirmation to the NWB and to the Minister, that the security has been received by the Kitikmeot Inuit Association, indicating the amount, form, nature and conditions of the security.	
8. If the Licensee fails to provide written confirmation required under Part C, Item 7 that the required security under Part C, Item 2 has been furnished to the Kitikmeot Inuit Association, the Licensee shall, within thirty (30) days of the failure, furnish such additional security to the Minister under the Licence as is required to replace the amount that should have been held by the Kitikmeot Inuit Association.	
9. The Licensee shall submit to the Board, at least sixty (60) days prior to any material changes to the Undertaking that could result in a material change to the reclamation liability associated with the Undertaking written notification of such changes.	
10. The Licensee shall submit, to the Board for approval at least every 5 years following approval of the Amended Licence, an updated Interim Closure and Reclamation Plan and an updated reclamation cost estimate of the total mine closure restoration liability, using the most current version of CIRNAC's RECLAIM Reclamation Cost Estimating Model, its equivalent or other similar method approved by the Board in writing, in accordance with principles of the INAC (as CIRNAC was previously known as) "Mine Site Reclamation Policy in Nunavut" (2002).	
11. The Licensee shall, should the Project remain, or be in Care and Maintenance, submit an updated estimate of total mine closure restoration liability, within twelve (12) months of entering Care and Maintenance and every three (3) years thereafter.	
12. The Licensee shall submit, within the Final Closure and Reclamation Plan as per Part L, Item 5, an updated reclamation cost estimate of the total mine closure restoration liability, using the most current version of CIRNAC's RECLAIM Reclamation Cost Estimating Model, its equivalent or other similar method approved by the Board in writing, in accordance with principles of the "Mine Site Reclamation Policy for Nunavut" (2002).	
13. Upon the Board receiving an updated reclamation cost estimate as required under Part C, Item 10 or 11 or Part L, Item 6, the Board may, on its own initiative, or upon application by the Licensee, the Minister and/or the Kitikmeot Inuit Association, conduct a periodic review of the outstanding reclamation liability associated with the Undertaking and may, as the Board considers appropriate, approve an increase or decrease of the amount of security held under Part C, Item 1. Any submission requesting an increase or reduction of the security provisions of the Licence shall include supporting evidence to justify the change. Prior to approval of any increase or reduction, the Board shall provide the Licensee, KIA, and CIRNAC the opportunity to make submissions.	
14. The Licensee, the Minister, or the Kitikmeot Inuit Association may request the Board to increase or reduce the amount of security required to be held under the Licence. Any submission requesting a review of the security provisions of the Licence shall include supporting evidence to justify the change. Prior to approval of any increase or reduction, the Board shall provide the Licensee, KIA, and CIRNAC the opportunity to make submissions.	
15. The security referred to in Part C, Item 1 shall be maintained until such time as the Minister is satisfied pursuant to Section 76(5) of the Act.	
Part D: Conditions Applying to Construction and Operations	Per CIRNAC Comment 4B, TMAC would not object to the inclusion of a term similar to Part D in 2AM BOS

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Type A Water Licence Framework**

1. Unless otherwise approved by the Board, the Licensee shall use fill material for construction from an approved source in accordance with approved Plans.	Per CIRNAC Comment.
2. The Licensee shall implement preventive and mitigation measures to prevent any non-compliant chemicals, fuel or Wastes associated with the undertaking from entering any Water body, unless otherwise approved by the Board permitted by this Licence.	Re CIRNAC Comment 42, TMAC suggests the revision included in response to CIRNAC Comment 16 in 2AM DOH.
3. The Licensee shall locate equipment storage areas on gravel, sand or other durable land, a distance of at least thirty-one (31) metres above the ordinary High Water Mark of any Water body in order to minimize impacts on surface drainage and Water quality unless otherwise approved by the Board.	
4. The Licensee shall implement sediment and erosion control measures where necessary, during all phases of the Project to prevent entry of sediment into Water.	
5. The Licensee shall undertake appropriate corrective measures to mitigate impacts on surface drainage resulting from the Licensee's operations.	
6. The Licensee shall limit any in-stream activity to the low Water or winter period unless otherwise approved by Fisheries and Oceans Canada and this activity is prohibited during fish migration unless otherwise approved by the Board or Fisheries and Oceans Canada.	Per CIRNAC Comment 43/17.
7. The Licensee shall conduct construction monitoring during periods where Construction activities are undertaken.	
8. The Licensee shall, during periods of Construction activities, submit an annual Construction Summary Report no later than March 31 in the year following the calendar year being reported. The report shall be developed in accordance with Schedule D, Item 1.	Further to CIRNAC Comment 44, would not be objectionable to TMAC if the Board decides to group this item with Item 20
9. The Licensee shall identify and tag any potentially acid-generating rock identified through the Hope Bay Project Quarry Management and Monitoring Plan for removal and disposal to the Temporary Waste Rock Pile, for ultimate disposal underground.	redundant with part G item 7
10. The Licensee shall, for the purposes of bridge construction, ensure that all activities remain outside of the natural channel width by the placement of abutments, footings or armouring above the ordinary High Water Mark so that there is no restriction to the natural channel processes, unless otherwise approved by the Board.	
11. The Licensee shall submit to the Board for review, at least thirty (30) days prior to construction, final design and construction drawings accompanied with a detailed report, both stamped and signed by the appropriately qualified Engineer where such facilities require engineered structures, for the following: a. Water Works and b. Waste Disposal Facilities.	
12. The Licensee shall conduct all activities, including the construction and maintenance of any all-weather roads, in such a way as to minimize impacts on surface drainage and shall immediately undertake any corrective measures in the event the Licensee's activities cause significant pooling of Water or any significant impacts on surface drainage.	
13. With respect to access road, pad construction or other earthworks where direct or indirect flow into a Water body is possible, the depositor of debris or sediment into or onto any Water body is prohibited. These materials shall be disposed at a distance of at least thirty-one (31) metres from the ordinary High Water Mark in such a fashion that they do not enter the Water unless otherwise approved by the Board.	
14. The Licensee shall monitor all activities for signs of erosion and shall implement and maintain sediment and erosion control measures prior to the undertaking to prevent entry of sediment into any Water body.	
15. The Licensee shall conduct visual inspections for all construction activity during spring freshet and during and after remarkable rainfall events with sampling of runoff/seepage where turbidity is evident.	Re CIRNAC Comment 45, TMAC is of the view that more prescriptive language would not be helpful from a compliance/monitoring perspective. For example, if the suggested wording such as 1 in X year rainfall event were used, it would not be known until after the event was complete whether it was a 1 in X year rainfall event.

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16. All surface runoff during the construction of any facilities, where flow may directly or indirectly enter a Water body, shall meet the following Effluent quality limits: Project-related surface runoff and/or discharge from drainage management systems, including non-contact water ponds, where flow may directly or indirectly enter a waterbody, or be discharged to tundra shall not exceed the following effluent quality limits:								
<table border="1"> <thead> <tr> <th>Parameter</th><th>Maximum Average Concentration (mg/L)*</th><th>Maximum Concentration of Any Grab Sample (mg/L)*</th></tr> </thead> <tbody> <tr> <td>Total Suspended Solids</td><td>50.0</td><td>100.0</td></tr> </tbody> </table> *Or equivalent turbidity concentrations, as approved by the Board in writing.		Parameter	Maximum Average Concentration (mg/L)*	Maximum Concentration of Any Grab Sample (mg/L)*	Total Suspended Solids	50.0	100.0	
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The effluent quality limits above apply during construction activities at Monitoring Station BMS-10 and construction and operations at Monitoring Station BMS-5.								
17. The Licensee shall operate the Sewage Treatment Plant in accordance with the Hope Bay Project Domestic Wastewater Treatment Management Plan and the Boston Sewage Treatment Operations and Maintenance Management Plan with Effluent compliance during discharge to the tundra or to Almapkataok Lake.		Per CIRNAC Comment 46, TMAC notes that the Boston Sewage Treatment Operation and Maintenance Plan relates to 288 BOS not 2AM BOS. It was referenced in the application for transparency but need not be referenced in 2AM BOS.						
18. The Licensee shall conduct a Quarry Rock Seepage Monitoring and Management Program in accordance with the Hope Bay Project Quarry Management and Monitoring Plan.		Per CIRNAC Comment 47, TMAC does not object to including an item similar to Part C, Item 21 of 2 AM-DOH.						
19. The Licensee shall construct and maintain all containment and runoff control structures to prevent non-permitted releases of Wastes to the terrestrial environment or groundwater systems.								
20. The Licensee shall submit to the Board for review, with the Construction Summary Report referred to under Part D, Item 8, and following completion of each facility designed to contain, withhold, divert or retain Water or Waste, a Construction Summary Report prepared by a qualified Engineer(s) that shall include as-built drawings, documentation of field decisions that deviate from original plans and any data used to support these decisions.		It would not be objectionable to TMAC if the Board decides to group this item with Item 8, per CIRNAC Comment 44.						
21. The Licensee shall, during the construction of all engineered structures designed to contain, withhold, divert or retain Water or Waste, provide the required field checks by an appropriately qualified and experienced Engineer in such a manner that work is done in accordance with design specifications. The Licensee shall maintain all construction records of all engineered structures, as above, to be made available at the request of the Board and/or an Inspector.								
22. The Licensee shall direct all runoff and seepage from the Temporary Ore and Waste Rock Pads to the Contact Water Ponds for re-use in processing plant or if it meets discharge criteria discharged to tundra, identified in Part F, Item 11.								
23. The Licensee shall consider the principles of Adaptive Management in Construction and Operations.								
Part E: Conditions Applying to the Use of Water 1. The Licensee shall obtain fresh Water as follows or as otherwise approved by the Board: (a) from Almapkataok Lake, 33,000 m³/year for domestic use, 450,000 m³/year for Industrial use (b) Drill Water may also be obtained from locations proximal to the drilling targets, provided such volumes do not exceed the total volume of 450,000m³/year for industrial use described at 1(a). (c) water for winter ice roads 20,000 cubic metres/year.		Re CIRNAC Comment 49, any water taken per 1(b) would need to be below the overall limits set at 1(a)						
2. The Licensee shall maximize to the greatest practical extent, the use of Water from the Tailings Management Area, contact water and surge ponds for use in the mill.								
3. The Licensee shall not use streams as a Water source unless authorized and approved by the Board in writing.								
4. The Licensee shall maintain the fresh water intakes to the satisfaction of the Inspector, as being reasonably.								
5. The Licensee shall equip all Water intake hoses with a screen of an appropriate mesh size to ensure that fish are not entrained and shall withdraw Water at a rate such that fish do not become impinged on the screen.								
6. The Licensee shall not remove any material from below the ordinary High Water Mark of any Water body unless authorized by an Inspector or the Board.								
7. The Licensee shall provide the controls necessary to prevent erosion to the banks of any body of Water. Sediment and erosion control measures shall be implemented prior to and maintained during any project activities to prevent entry of sediment into Water.								
Part F: Conditions Applying to Water Management								

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Type A Water Licence Framework

1. The Licensee shall carry out regular inspections of all Water management structures during periods of flow and the records be kept for review upon request of an Inspector. More frequent inspections may be required at the request of an Inspector-acting-reasonably.	Re CIRNAC Comment 50, see TMAC response to Comment 19 in 2AM-DOH																		
2. The Board has approved, with the issuance of this Licence, the Plan entitled "Hope Bay Project Groundwater Management Plan" dated May 2018. The Plan shall be reviewed annually in order to capture any revisions or updates necessary to adapt to changing circumstances regarding groundwater inflows and discharge rates.																			
Part G: Conditions Applying to Waste Disposal and Management																			
1. The Licensee shall provide at least three five (35) days notice to the Inspector prior to any planned discharges from any Facilities. The notice shall include the estimated volume proposed for discharge and location.	Revised per CIRNAC comment 51.																		
2. The Licensee shall perform all land applied discharges of a waste that may enter water in a manner that prevents erosion at the point of discharge and downstream.	Re CIRNAC Comment 52, TMAC agrees the change suggested by CIRNAC is appropriate.																		
3. The Licensee shall operate the Domestic Wastewater Treatment Plant in accordance with the following: a. All Sewage and Greywater shall be collected and treated in the Domestic Wastewater Treatment Plant; b. All Effluent discharged from the Domestic Wastewater Treatment Plant to the tundra or Alimaakatalok Lake shall not exceed the following effluent quality limits: b- The Licensee will direct all sewage at the Boston Property to the Boston STP. The Boston STP effluent may be combined with the Boston Water Treatment Plant (WTP) effluent or discharged to tundra. The discharge of Boston STP effluent to tundra at Monitoring Program Station BMS-8 shall not exceed the following effluent quality limits:																			
<table><tr><th>Parameter</th><th>Maximum Average Concentration (mg/L)</th><th>Maximum Concentration of Any Grab Sample (mg/L)</th></tr><tr><td>pH</td><td>6.0-9.5</td><td>6.0-9.5</td></tr><tr><td>Total Suspended Solids (TSS)</td><td>100</td><td>100</td></tr><tr><td>Biological Oxygen Demand (BOD₅)</td><td>80</td><td>160</td></tr><tr><td>Fecal Coliforms</td><td>10,000 CFU/100 mL</td><td>10,000 CFU/100 mL</td></tr><tr><td>Oil and Grease</td><td>5, No Visible Sheen</td><td>10, No Visible Sheen</td></tr></table>	Parameter	Maximum Average Concentration (mg/L)	Maximum Concentration of Any Grab Sample (mg/L)	pH	6.0-9.5	6.0-9.5	Total Suspended Solids (TSS)	100	100	Biological Oxygen Demand (BOD ₅)	80	160	Fecal Coliforms	10,000 CFU/100 mL	10,000 CFU/100 mL	Oil and Grease	5, No Visible Sheen	10, No Visible Sheen	
Parameter	Maximum Average Concentration (mg/L)	Maximum Concentration of Any Grab Sample (mg/L)																	
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Biological Oxygen Demand (BOD ₅)	80	160																	
Fecal Coliforms	10,000 CFU/100 mL	10,000 CFU/100 mL																	
Oil and Grease	5, No Visible Sheen	10, No Visible Sheen																	
c. The Licensee will direct effluent from the Boston WTP to Alimaakatalok Lake via the Boston Diffuser. The Boston WTP effluent at Monitoring Program Station BMS-3 shall not exceed the following effluent quality limits:	Re CIRNAC Comment 53, CIRNAC suggests revising the discharge criteria for Alimaakatalok Lake "since it enters water directly and doesn't have the benefit of filtering through the tundra". Respectfully the criteria at discharge point is the critical compliance point, and it is not relevant whether the effluent filtered through the tundra or not.																		

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Parameter	Maximum-Average-Concentration- (mg/L)	Maximum- Concentration-of- Any-Grab-Sample- (mg/L)
pH	6.0-9.5	6.0-9.5
Total Suspended Solids (TSS)	50	100
Oil and Grease	5, No Visible Sheen	10, No Visible Sheen
Arsenic	0.5	1
Nickel	0.5	1

12. The licensee shall operate and maintain the Sumps associated with the site, in accordance with the following:		
a. Water discharged from the Landfill Sump shall not exceed the following Effluent quality limits:		
12 a. Water from the Landfill Sump that is acceptable for discharge under Part G, Item 11, may be discharged to the tundra or as designated by an Inspector;		
b. Water discharged from the Landfarm Sump shall not exceed the following Effluent quality limits:—		
b. a. Discharge of effluent onto tundra from Landfarm Sump and fuel containment facility at Monitoring Program Station BMS-9 shall not exceed the following effluent limits:		

Parameter	Maximum Average Concentration (mg/L)	Maximum Concentration of Any Grab Sample (mg/L)
pH	6.0-9.5	6.0-9.5
Total Suspended Solids (TSS)	50	100
Benzene	0.37	0.37
Toluene	0.002	0.002
Ethylbenzene	0.09	0.09
Oil and Grease	5, No Visible Sheen	10, No Visible Sheen
Lead	0.2	0.4

d. Water from the Landfarm Sump that is acceptable for discharge under Part G, Item 11 (e) may be discharged to the tundra or as designated by an Inspector;		
e. Water discharged from the Fuel Storage Facility secondary containment Sumps shall not exceed the following Effluent quality limits:		
f. b. Water from the Fuel Storage and Containment Facility Sumps that is acceptable for discharge under Part G, Item 12a may be discharged to the tundra or used for dust suppression or as otherwise designated by an Inspector; and		
g. c. Sump Water from the contact water ponds, Landfill, Landfarm and Fuel Storage and Containment Facility that does not meet the criteria in Part G, Items 11 and 12a respectively shall be directed to the Surge Pond.		
h. d. The Licensee will direct water from the Boston Surge Pond to the processing plant, Boston WTP, or to tundra. The discharge of Boston Surge Pond effluent to tundra at Monitoring Program Station BMS-2 shall not exceed the following effluent quality limits:		

Per CIRNAC Comment 56, TMAC has suggested discharge criteria for the surge pond and the industrial water treatment plant		
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Parameter	Maximum Average Concentration (mg/L)	Maximum Concentration of Any Grab Sample (mg/L)
pH	6.0-9.5	6.0-9.5
Total Suspended Solids (TSS)	50	100
Arsenic	0.5	1
Copper	0.3	0.6
Lead	0.2	0.4
Nickel	0.5	1
Zinc	0.5	1
Benzene	0.37	0.37
Toluene	0.002	0.002
Ethylbenzene	0.09	0.09
Oil and Grease	5, No Visible Sheen	10, No Visible Sheen

Part H: Conditions Applying to Modifications

1. The Licensee may, without written consent from the Board, carry out Modifications to the Water Supply Facilities and Waste Disposal Facilities provided that such Modifications are consistent with the terms of this Licence and the following requirements are met:

- The Licensee has notified the Board of such proposed Modifications at least sixty (60) days prior to beginning the Modifications, unless otherwise approved by the Board;
- Such Modifications do not place the Licensee in contravention of the Licence or the Act;
- Such Modifications are consistent with the applicable terms and conditions of the NIRB Project Certificate;
- The Board has not, within sixty (60) days following notification of the proposed Modifications, informed the Licensee that review of the proposal will require more than sixty (60) days; and
- The Board has not rejected the proposed Modifications.

2. Modifications for which any of the conditions referred to in Part H, Item 1 have not been met can be carried out only with approval from the Board.

3. The Licensee shall provide as-built plans and drawings of the Modifications referred to in this Licence within ninety (90) days of completion of the Modification ~~or with submission with the Annual Report~~. These plans and drawings shall be stamped by an Engineer.

Part I: Conditions Applying to Contingency Planning

1. All sumps and fuel caches shall be located at a distance of at least thirty-one (31) metres from the ordinary High Water Mark of any adjacent Water body and inspected on a regular basis.

2. The Licensee shall provide secondary containment for fuel and chemical storage as required by applicable standards and acceptable industry practice.

3. The Licensee shall perform regular inspections of Fuel Storage and Containment Facilities, Sumps, Emergency Dump Catch Basins, other fuel tanks and connectors for leaks and movement and shall keep a written log of inspections to be made available to an Inspector upon request. More frequent inspections may be required at the request of an Inspector ~~acting reasonably~~.

4. The Licensee shall report in accordance with the Nunavut Waters Regulations any unauthorized deposits or foreseeable unauthorized deposits of waste and or discharges of Effluent to territorial lands or waters which meet or exceed the volumes specified in the Spill Planning and Reporting Regulations.

Per CIRNAC Comment No. 24, TMAC is in agreement that the licence should also reference the spill line's phone number.

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5. If the Licensee provides notification of Care and Maintenance, the Licensee shall submit to the Board an Addendum to the Emergency Response Plan and the Spill Contingency Plan, detailing the changes in operations, personnel, responsibilities, availability of equipment and access to the site for assistance.	
Part J: Conditions Applying to General and Aquatic Effects Monitoring	
1. The Licensee shall install and maintain flow meters or other such devices, or implement suitable methods required for the measuring of Water use and Effluent discharge volumes, where such discharges are made to land or inland Waters, to be operated and maintained to the satisfaction of an Inspector, acting reasonably .	
2. The Licensee shall undertake the Water Monitoring Program detailed in the tables of Schedule J or as may be directed by the Board, after consulting with the Licensee.	
3. Water quality monitoring shall be carried out in accordance with the approved Quality Assurance/Quality Control Plan.	
4. The Licensee, in consultation with an Inspector, shall establish the locations and GPS coordinates for all monitoring stations referred to in Schedule J.	
54. The Licensee shall install and maintain, to the satisfaction of an Inspector acting reasonably , signs that identify monitoring stations. The signs shall be posted in English, Inuktitut, and Inuinnaqtun.	
65. Additional monitoring may be directed by the Board.	
76. All analyses shall be conducted as described in the most recent edition of "Standard Methods for the Examination of Water and Wastewater" or by other such methods approved by an Analyst.	
87. All compliance analyses shall be performed in an accredited laboratory.	
98. The Licensee shall measure and record all flow and volume measurements on a monthly basis, during Operations and any use of Waters (unless otherwise stated): a. The volume of freshwater obtained from Almaakatalok Lake; b. The volume of freshwater obtained from proximal sources for drilling and winter ice road; c. The volume of reclaim water obtained for process water at the process plant; d. Tonnes of Waste Rock stored in the Waste Rock Storage Area(s) and at other locations approved by the Board during Construction, Operations, and Closure; e. The volume of sewage sludge removed and the locations or method of sewage sludge disposal during Construction, Operations, and Closure; f. Report the data in accordance to Schedule B.	
109. The Licensee shall measure and record in tonnes including the location of disposal (temporary and permanent) for the following: a. The daily dry tonnes of tailings placed; and b. The monthly quantity of ore processed.	
1244. The Licensee shall undertake a geotechnical inspection of all surface infrastructure earthworks between July and September, by a Geotechnical Engineer. The inspection shall be conducted in accordance with applicable best practices including the Canadian Dam Association guidelines for water and waste containment facilities.	
13. The Licensee shall submit to the Board for review, within ninety (90) days of completion of the geotechnical inspection in accordance with Part J, Item 12, or in the Annual Report , the Geotechnical Engineer's inspection report. The report shall include a cover letter from the Licensee outlining an implementation plan addressing each of the Geotechnical Engineer's recommendations.	

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14. The Licensee shall visually monitor and record observations, to be made available to an Inspector upon request, during periods of discharge onto the tundra from: a. Landfill Sump(s); b. Landfarm Sump(s); c. Fuel Storage Facilities Sump(s); d. Sewage Treatment Plant Sump; e. Contact Water and Surge Ponds; and f. Any other treated effluent water discharge Sump(s).	
15. The Licensee shall, within thirty (30) days following the month being reported, submit to the Board a monthly monitoring report in an electronic format. The Report shall include the following: a. All data and information required by this Part and generated by the Monitoring Program in the Tables of Schedule J; b. An assessment of data to identify areas of non-compliance with regulated discharge parameters referred to in this Licence; and c. Reports should document conditions during spring freshet, major rain events, and periods of sustained precipitation should be monitored. Documented information can include flow measurements, photographs and notes.	
16. Tailings must be managed according to the Boston Tailings Impoundment Management Area Operations, Maintenance, and Surveillance Manual.	Per CIRNAC Comment 57.
Part K: Conditions Applying to General and Aquatic Effects Monitoring Plans	
1. The Licensee shall annually review the approved QA/QC Plan and modify the Plan as necessary.	
Part L: Conditions Applying to Abandonment, Reclamation, and Closure	
1. The Licensee shall notify the Board, as soon as practically possible, of any intent to enter into a Care and Maintenance Phase.	
2. The Licensee shall, upon providing notice to the Board as per Part L, Item 1, review all operational plans and submit revised Plans to reflect the Care and Maintenance status, to the Board for approval in writing, within three (3) months of providing notice.	
3. The Licensee shall provide to the Board in writing, at least thirty (30) days advanced notification of the Initial start of Operations or change of Project Phase. Notification may be provided separately or in accordance with the monthly monitoring report as per Part J, Item 15.	With respect to CIRNAC Comment 58, TMAC is of the view the standard wording should be included in the Water Licence, which does not reference the Inspector.
4. The Licensee shall submit to the Board for approval at least twelve (12) months prior to the planned Closure, a Final Closure and Reclamation Plan. The Final Closure and Reclamation Plan shall incorporate revisions, which reflect the pending closed status of the mine, and include: a. Soil Quality Remediation Objectives along with CCME Guidelines and the Government of Nunavut Environmental Guideline for Site Remediation; b. A Protocol for the disposal of any contaminated soil into the underground mine at closure; c. Environmental Site Assessment plans in accordance with Canadian Standards Association (CSA) criteria; and d. An Evaluation of the Human Health and Ecological Risk Assessment.	
5. The Licensee shall, should the Project remain, or be in Care and Maintenance, submit an updated estimate of total mine closure restoration liability, within twelve (12) months of entering Care and Maintenance and every three (3) years thereafter.	Included in Part C (11)
6. 5. The Licensee shall include, with the Plan submitted under Part L, an updated estimate of the total mine closure restoration liability using the current version of RECLAIM, its equivalent or other similar method approved by the Board, in accordance with principles of the INAC "Mine Site Reclamation Policy for Nunavut" (2002).	

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7-6. The Licensee shall complete all reclamation work in accordance with the Plan(s) referred to in this Part, as and when approved by the Board in writing.	
8-7. The Licensee shall carry out progressive reclamation of any components of the project no longer required for the Licensee's operations.	
9-8. All roads and airstrip, if any, shall be re-graded, as practicable, to match natural contours to reduce erosion.	
10-9. The Licensee shall remove any culverts and restore, as much as practical, the drainage to match the natural channel. Measures shall be implemented to minimize erosion and sedimentation.	
11-10. Areas that have been contaminated by hydrocarbons from normal fuel transfer procedures shall be reclaimed to meet objectives as outlined in the Government of Nunavut's Environmental Guideline for Site Remediation, (2010 version or current version in place at the time of Reclamation).	
12. The Licensee shall contour and stabilize all disturbed areas to a pre-disturbed state upon completion of work.	
13. The Licensee shall consult traditional land users, land owners, and other stakeholders on the proposed post-closure land use criteria. Particularly, the proposal to leave certain facilities in place and confirm the soil quality remediation objectives.	
SCHEDULE A: Definitions	
"Abandonment" means the permanent dismantlement of a facility so it is permanently incapable of its intended use. This includes the removal of associated equipment and structures;	
"Act" means the Nunavut Waters and Nunavut Surface Rights Tribunal Act;	
"Acid Rock Drainage (ARD)" means the production of acidic leachate, seepage or drainage from underground workings, ore piles, waste rock, and portal development rock that can lead to the release of metals to groundwater or surface Water during the life of the Project and after Closure;	
"Adaptive Management" means a way of managing risks associated with uncertainty and provides a flexible framework for the mitigation measures to be implemented and actions to be taken when specified thresholds are exceeded;	
"Aliquot" means the amount comprising a known fraction of a whole and constituting a sample used for analysis;	
"Amendment" means a change to terms and conditions of this Licence requiring addition or deletion of specific terms and conditions of the Licence;	
"Analyst" means an Analyst designated by the Minister under Section 85 (1) of the Act;	
"Annually" means, in the context of monitoring frequency, one sampling event occurring every 365 days with a minimum of 200 days between sampling events;	
"Aquatic Effects Monitoring Plan (AEMPI)" means a monitoring program designed to determine the short and long-term effects to Inland Waters resulting from the Project, to evaluate the accuracy of impact predictions, to assess the effectiveness of planned impact mitigation measures and to identify additional impact mitigation measures to avert or reduce environmental effects;	
"Board" means the Nunavut Water Board established under Article 13 of the Nunavut Agreement and under Section 14 of the Act;	

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	"Building" means erecting any of the major permanent infrastructure such as workshops, camp, tank farm, power plan, mill building, etc.	
	"Canadian Council of the Ministers of the Environment" (CCME) is the primary minister-led intergovernmental forum for collective action on environmental issues of national and international concern. CCME sets guidelines for environmental protection across Canada such as the Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life;	
	"Care and Maintenance" in respect of a mine, means when the Licensee ceases construction, production or commercial operation temporarily for an undefined period of time;	
	"Closure" means when a mine ceases operations without the intent to resume mining activities in the future;	
	"Commercial Operation" in respect of a mine, means an average rate of production that is equal to or greater than 25% of the design rated capacity of the mine over a period of 90 consecutive days;	
	"Construction" means any activities undertaken to construct or build any component under the scope of this Licence associated with, the development of the Project,	
	"Deposit" means the placement of waste rock, tailings or other solids materials on land or in Water;	
	"Discharge" means the release of any Water or Waste to the receiving environment, other than discharge to the marine waters;	
	"Dissolved Metals" means the suite of metals referred to as MD in Schedule J Table 1 entitled Monitoring Groups. Dissolved metals shall be analyzed on a filtered sample;	
	"Domestic Waste" means all solid Waste generated from the accommodations, kitchen facilities and all other site facilities, excluding those industrial and hazardous Wastes associated with the mining and processing of ore;	
	"Earthworks" means any earthworks related to the Boston Project such as quarries, roads, pads or the airstrip.	
	"Effluent" means treated or untreated liquid Waste material that is discharged into the environment from a structure such as a settling pond, landfill or a treatment plant;	
	"Engineer" means a professional engineer registered to practice in Nunavut in accordance with the Consolidation of Engineers and Geoscientists Act S. Nu 2008, c.2 and the Engineering and Geoscience Professions Act S.N.W.T. 2006, c.16 Amended by S.N.W.T. 2009, c.12;	

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	“Engineering Geologist” means a professional geologist registered with the Association of Professional Engineers, Geologist and Geophysicists of Nunavut and whose principal field of specialization is the investigation and interpretation of geological conditions for civil engineering purposes;	
	“Engineered Structure” means any facility, which was designed and approved by a Professional Engineer registered with the Association of Professional Engineers, Geologists and Geophysicists of Nunavut;	
	“Environmental Assessment” means, for the purpose of this licence, the totality of the Nunavut Impact Review Board (NIRB) Public Registry as established under the authority of Article 12 of the Nunavut Agreement, this includes everything that was submitted by the Licensee to the NIRB, the scope of which is consistent with the Water Licence Application;	
	“Explosives Mixing and Storage Facility” means a facility designed for the storage of ammonium nitrate, detonators and explosives; and designed for the mixing and storage of Ammonium Nitrate Fuel Oil (ANFO) as indicated in the Application submitted December 2017	
	“Fresh Water Intake” means the infrastructure required for extraction of Water, as indicated in the Application submitted December 2017;	
	“Fuel Storage and Containment Facility” means the facilities designed for the bulk storage of fuel sites as per the Application submitted on December 2017;	
	“Landfarm” means a lined, engineered area designed to contain and treat hydrocarbon impacted sediment and soil using bioremediation as indicated in the Application submitted December 2017	
	“Geotechnical Engineer” means a professional engineer registered with the Association of Professional Engineers, Geologist and Geophysicists of Nunavut and whose principal field of specialization with the engineering properties of earth materials in dealing with man-made structures and earthworks that will be built on a site. These can include shallow and deep foundations, retaining walls, dams, and embankments;	
	“Grab Sample” means an undiluted quantity of material collected at a particular time and place that may be representative of the total substance being sampled at the time and place it was collected;	
	“Greywater” means the component of Effluent produced from domestic use (i.e. washing, bathing, food preparation and laundering), excluding sewage;	
	“Ground Ice” means ice that occupies fractures in rock and soil below the ground surface and may be present as ice inclusion in permafrost, soil or rock, as pore ice, lense ice or massive ice;	
	“Ground Water” means Water that occupies pores and fractures in rock and soil below the ground surface in a liquid or frozen state;	
	“Mining” means any mining activities associated with the Boston project.	
	“Modification” means an alteration to a physical work that introduces a new structure or eliminates an existing structure and does not alter the purpose or function of the work;	

**Proposed ZAM BOS
Type A Water Licence Framework**

"Monthly" means, in the context of monitoring frequency, one sampling event occurring every thirty (30) days with a minimum of 21 days between sampling events;	
"Nutrients" means the suite of parameters referred to as N1 and N2 in Schedule J Table 1 entitled Monitoring Groups;	
"Operations Phase" means the period during which the ore is extracted from the mine and processed to produce the final product (gold). The Operations Phase starts with the ore extraction, mining, and includes the milling and extraction of the valuable minerals as described in the documents submitted to the Board throughout the regulatory process;	
"Operator" means the person who operates, has control or custody of, or is in charge of a mine or recognized closed mine;	
"Progressive Reclamation" means actions that can be taken during mining operations, in locations where the Licensee has confirmed that mine areas and facilities will not be used in future, before permanent Closure, to take advantage of cost and operating efficiencies by using the resources available from mine Operations to "close certain parts of the operating areas". It enhances environmental protection and shortens the timeframe for achieving the reclamation objectives and goals;	
"Quarterly" means, in the context of monitoring frequency, one sampling event occurring every 3 months with a minimum of ninety (90) days between sampling events;	
"Reclamation" means the process of returning the mine sites and affected areas to viable and, wherever practicable, self-sustaining ecosystems that are compatible with a healthy environment and with human activities;	
"Receiving Environment" means both the freshwater and terrestrial environments that receive any discharge resulting from the Project;	
"Seepage" means any Water that drains through or escapes from any structure designed to contain, withhold, divert or retain Water or Waste. Seepage also includes any flows that have emerged from the toe, or as a result of runoff from overburden storage areas, Waste Rock Storage Facilities, and Ore Stockpile Areas;	
"Sewage" means all toilet Wastes and greywater;	
"Sump" means a containment facility for the collection of surface drainage;	
"Surface Drainage" means all surface Waters resulting from the flow over, through or out of an operations area and is collected by means of engineered structures considered under the Storm Water Management Facilities;	
"Tailings 1" means commissioning the processing plant and producing filtered tailings (including the pre-commissioning period);	
"Tailings 2" means the total amount of tailings in the Boston TMA exceeds 1.7 million tonnes;	
"Tailings 3" means the total amount of tailings in the Boston TMA exceeds 3.4 million tonnes;	
"Tailings Management Area" means the engineered structure designed to dispose of the permanently contain the dewatered solids of the mill tailings.	
"Tailik" means a layer or body of unfrozen ground occurring in a permafrost area due to a local anomaly in thermal, hydrological, hydrogeological or hydrochemical conditions;	
"Total Metals" means the suite of metals referred to as MT in Schedule J Table 1 entitled Monitoring Groups. Total metals shall be analyzed on an un-filtered sample;	
"Use" means use of Waters defined in section 4 of the Act;	
"Waste" means waste as defined in section 4 of the Act;	
"Waste Rock" means all unprocessed rock materials that are or were produced as a result of mining operations and having no current economical value;	
"Wastewater" means the Water generated by site activities or originates on-site that requires treatment or any other Water management activity;	
"Water or Waters" means water as defined in section 4 of the Act;	

Proposed 2AM BOS
Type A Water Licence Framework

"Weekly" means, in the context of monitoring frequency, one sampling event occurring every 7 days with a minimum of 5 days between sampling events.	
"Water Supply Facility" means the Fresh Water Intake and associated infrastructure;	
SCHEDULE B: General Conditions	
The Annual Report shall include:	
1. Summary of monitoring reporting performed in accordance with Part J, Item 21. The Summary shall include conversion of daily volumes and tonnages to monthly and annual volumes and tonnages.	
2. A Geochemical Monitoring and Waste Rock Storage Assessment that includes the following:	
a. For the tailings solids:	
i. All geochemical data appended;	
ii. All tonnage data appended and locations of disposal;	
iii. Discussion of geochemical data (static and kinetic, if applicable) with relevant figures and calculation of NNP and NPR; and	
iv. Geochemical Interpretation of data.	
b. For tailings supernatant:	
i. All geochemical data appended; and	
ii. Figures depicting time series of constituent concentrations and loads.	
c. For waste rock:	
i. Tonnage of mineralized and un-mineralized Waste Rock placed on the Temporary Waste Rock Pad and in other locations as approved by the Board in writing; and	
ii. Tonnage of Waste rock placed underground.	
d. For cyanide leach residue:	
i. Presentation of results of bi-annual underground inspection of the following:	
§ Location of Inspection	
§ Geochemical and inspection data of any samples taken from seepage from the cyanide leach residue including geochemical discussion of results.	
3. Include the report referenced in Part D, Item 21, that presents the data collected from the Quarry Rock Seepage Monitoring and Management Program conducted under Part D, Item 20. The report shall include a discussion of the interpretation of geochemical data and shall be presented to the Board for review.	
4. A summary of the results of the monthly Water balance and Water quality model assessments referred to in Part G, Item 34 and any re-calibrations that have been carried out. The report shall include:	
a. Relevant supporting data;	
b. a comparison of measured Water balance and Water quality values to predicted values;	
c. Monitoring and internal modelling results;	
d. a discussion of any discrepancies in model inputs; and	
e. Identification of any necessary adaptive management strategies.	
5. An update on the current capacity of the Tailings Management Area;	
6. A record of measurements of the following:	
a. The flows (m³/day) at monitoring station T-2;	
b. A record of measurements of Doris Lake Water Level	
7. Annual review of and submission of any revisions to the Management Plans or Emergency Response or Contingency Plan in the form of either addenda or revised Plan;	As per CIRNAC Comment 60.
8. A list and description of all reportable unauthorized discharges including volumes, spill report line identification number and summaries of follow-up action taken;	
9. The results of the Aquatic Effects Monitoring Program and in accordance with Part J, Item 3;	
10. Annual Adjustments to reclamation security estimates including any additional security that may be required or reductions in security requirements for progressive reclamation actions;	

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11. A summary of any closure and reclamation work undertaken and an outline of any work anticipated for the next year, including any changes to implementation and scheduling 12. Incineration stack testing when stack testing is required; 13. Annual Landfill Management report; 14. A summary of modifications and/or major maintenance work carried out on Water Supply Facilities, the Water Supply and the Waste Disposal Facilities, including all associated structures, and an outline of any work anticipated for the next year;	
15. A summary report describing public consultation and participation with local organizations and the residents of the nearby communities, including a schedule of upcoming community events/information sessions; 16. GPS locations of monitoring stations as confirmed with the Inspector Part J, Item 5; 17. A summary of the data requested under Part J Item 11;	
18. A summary of actions taken to address concerns or deficiencies listed in the inspection reports and/or compliance reports filed by an Inspector; and 19. Any other details on Water use or Waste Disposal requested by the Board by November 1st of the year being reported.	
SCHEDULE D: Conditions Applying to Construction	
a. Blast vibration monitoring for quarrying activity carried out in close proximity to fish-bearing waters; b. Monitoring of the performance of erosion protection measures employed by the construction contractor; c. Monitoring for sediment release from construction areas; d. Waste Rock and Quarry Monitoring Report referred to in Part G, Item 17, including the following: i. A summary of the geochemical inspections; ii. Results of the seep surveys; iii. Results of geochemical sampling and analysis; and iv. A summary of all mitigation activities undertaken as a result of monitoring. e. Monitoring of contractor's activity to minimize ground impacts to the tundra (i.e. keeping vehicles off the tundra and on constructed roadways); f. Summary of the Quarry Rock Seepage Monitoring Program referred to in Part D, Item 20; and g. Construction Summary Reports referred to in Part D, Item 25.	Removed as covered under Fisheries Authorization
2. The report shall discuss the monitoring results, analysis and any mitigation measures employed as a result of the monitoring, for each of the items listed above SCHEDULE E: Conditions Applying to Waste Management and Waste Management Plans CCME - Water Quality guidelines for total ammonia for the protection of aquatic life (mg-L-1 NH3) SCHEDULE J: Conditions Applying to General and Aquatic Effects Monitoring TABLES - Table 1 Monitoring Groups	Proposed Schedule J provided to the NWB on October 23, 2018
TABLES - Table 2 Monitoring Requirements	