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**Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) -  
Contaminants and Remediation Division (CARD)**

**Water Licence S24L8-004**

Pursuant to the *Waters Act* and the Waters Regulations,  
the Sahtú Land and Water Board grants this Water Licence to:

Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC) – Contaminants and Remediation  
Division (CARD)

(Licensee)

of                     P.O. Box 1500 4923 – 52nd Street - Gallery Building, Yellowknife, NT X1A 2R3

(Mailing Address)

hereinafter called the Licensee, to proceed with the following undertaking, subject to the annexed definitions and conditions contained therein:

<b>Location:</b>	Great Bear Lake Sites Remediation Project – Silver Bear Mines (including Terra [Nak’a ts’e deh], Northrim, Norex, Graham Vein and Smallwood Mines), El Bonanza Mine and Bonanza Mine), Contact Lake Mine [Kw’e K’a tue], the Sawmill Bay site and three portal sites (Contact Lake Portal, Mystery Island Portal and Bear Portal); southeast area of Great Bear Lake [Sahtú], NT
<b>Water Management Area:</b>	Great Bear Lake, all waters and river basins draining into Great Bear Lake, the Great Bear River and its tributaries and all the river basins of the Great Bear River and its tributaries
<b>Purpose:</b>	Miscellaneous
<b>Type:</b>	Type B
<b>Quantity of Water not to be exceeded:</b>	Up to 299 m <sup>3</sup> per day

<b>Effective Date:</b>	July 18, 2024
<b>Expiry Date:</b>	July 17, 2027



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**Valerie Gordon, Chair**  
**Sahtú Land and Water Board**



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**Natalie Lippa, Witness**

**Type B Water Licence S24L8-004**  
**Crown-Indigenous Relations and Northern Affairs Canada**  
**Contaminants and Remediation Division**  
**Great Bear Lake Sites Remediation Project**

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Part A: Scope and Defined Terms		
Scope:		Condition Title
1.	<p>This Licence entitles the Licensee to use Water and deposit Waste for S24L8-004 activities at the Great Bear Lake Sites Remediation Project. This Permit entitles the Permittee to conduct the following operations associated with the remediation activities required at the abandoned historic industrial properties of the following sites: Silver Bear Mines (including Terra [Nak'a ts'e deh], Northrim, Norex, Graham Vein and Smallwood Mines), El Bonanza Mine and Bonanza Mine), Contact Lake Mine [Kw'e K'a tue], the Sawmill Bay site and three portal sites (Contact Lake Portal, Mystery Island Portal and Bear Portal) in the southeast area of Great Bear Lake [Sahtú], NT. These sites are collectively referred to as the Great Bear Lake Sites Remediation Project.</p> <p>The scope of the Licence includes the following:</p> <p><u>Pre-Remediation Supporting Activities</u></p> <ul style="list-style-type: none"> <li>a) Construction, operation, maintenance, and decommissioning of camps, including Sewage Disposal Facilities;</li> <li>b) Construction, operation, and maintenance of site access routes, including existing site roads and portages, existing airstrips, winter roads, installation of culverts and temporary docks;</li> <li>c) Construction, operation, maintenance, and use of staging areas and fuel storage facilities and fuel;</li> <li>d) Barge operation;</li> <li>e) Water withdrawal for camp use, industrial use, winter road construction, cleaning, concrete mixing, and dust suppression;</li> <li>f) Use of equipment and machines;</li> <li>g) Quarrying to include borrow/granular material extraction/use (no crushing);</li> <li>h) Installation, operation, and removal of environmental protection measures to support Pre-remediation activities;</li> <li>i) Historic camp building demolition, including asbestos and lead paint abatement;</li> <li>j) Non-hazardous waste management, including debris; and</li> <li>k) Maintenance and monitoring of tailings, contaminated soils and waste rock.</li> </ul> <p><u>Remediation Activities</u></p> <ul style="list-style-type: none"> <li>l) Physical works associated with the management of waste rock, impacted water, and buildings and infrastructure containing hazardous materials;</li> <li>m) Consolidation and disposal of waste petroleum hydrocarbon products (assumed empty drums fall under category of "debris");</li> <li>n) Dock removal;</li> <li>o) Closing mine openings;</li> <li>p) Covering of gamma soils at Contact Lake;</li> </ul>	SCOPE

	<p>q) Construction of a surface water diversion away from waste;</p> <p>r) Decommissioning of select access roads; and</p> <p>s) Maintenance and monitoring of tailings, contaminated soils and waste rock.</p>	
2.	The scope of the Project is as described in the Preliminary Screening Determination for S09L8-001, dated July 13, 2010.	<b>SCOPE – PRELIMINARY SCREENING</b>
3.	This Licence is issued subject to the conditions contained herein with respect to the use of Water and the Deposit of Waste in any Waters or in any place under any conditions where such Waste or any other Waste that results from the Deposit of such Waste may enter any Waters. Any change made to the <i>Mackenzie Valley Resource Management Act</i> and/or the Mackenzie Valley Federal Areas Waters Regulations that affects licence conditions and defined terms will be deemed to have amended this Licence.	<b>LEGISLATION SUBJECT TO CHANGE</b>
4.	Compliance with this Licence does not relieve the Licensee from responsibility for compliance with the requirements of any applicable federal, territorial, Tłıchǝ, D�l�n�, or municipal legislation.	<b>LEGISLATIVE COMPLIANCE</b>

### Defined Terms <sup>1</sup>

**Action Level** – a predetermined qualitative or quantitative trigger which, if exceeded, requires the Licensee to take appropriate actions.

**Analyst** – an Analyst designated by the Minister under subsection 84(2) of the *Mackenzie Valley Resource Management Act*.

**Aquatic Effects Monitoring Program (AEMP)** – a monitoring program developed for the Project in accordance with this Licence and the MVLWB/GNWT *Guidelines for Aquatic Effects Monitoring Programs*.

**Average Concentration** – the arithmetic mean/discrete average of four consecutive analytical results, or if less than four analytical results, the arithmetic mean/discrete average of the analytical results collected during a batch decant, as submitted to the Board in accordance with the sampling and analysis requirements specified in the Surveillance Network Program.

**Board** – the Sahtu Land and Water Board established under Part 3 of the *Mackenzie Valley Resource Management Act*.

**Closure Criteria** - standards that measure the success of selected closure activities in meeting closure objectives. Closure criteria may have a temporal component (e.g., a standard may need to be met for a pre-defined number of years). Closure criteria can be site-specific or adopted from territorial/federal or other standards and can be narrative statements or numerical values.

<sup>1</sup> Defined terms are capitalized throughout the License, including when used in other definitions.

<p><b>Closure Objectives</b> - statements that describe what the selected closure activities are aiming to achieve; they are guided by the closure principles. Closure objectives are typically specific to project components, are measurable and achievable, and allow for the development of closure criteria.</p>
<p><b>Closure and Reclamation</b> – the process and activities that facilitate the return of areas affected by the Project to viable and, wherever practicable, self-sustaining ecosystems that are compatible with a healthy environment and human activities.</p>
<p><b>Closure and Reclamation Plan (CRP)</b> – a document, developed in accordance with this Licence and the MVLWB/AANDC <i>Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories</i>, that clearly describes the Closure and Reclamation for the Project.</p>
<p><b>Component-Specific Closure and Reclamation Plan (Component-Specific CRP)</b> – a document, developed in accordance with this Licence and the MVLWB/AANDC <i>Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories</i>, that clearly describes the Closure and Reclamation for a component of the Project.</p>
<p><b>Construction</b> – any activities undertaken during any phase of the Project to construct, build, upgrade, or replace any structures, facilities, or components of, or associated with, the Project.</p>
<p><b>Dam</b> – a structure that meets the definition of a Dam as per the <i>Dam Safety Guidelines</i> and is intended to contain, withhold, divert, or retain Water or Waste.</p>
<p><b>Dam Class</b> – the category of dam based on its failure consequences, as described in the <i>Dam Safety Guidelines</i>.</p>
<p><b>Dam Safety Guidelines</b> – the Canadian Dam Association (CDA) <i>Dam Safety Guidelines</i>, including the CDA <i>Dam Safety Guidelines Technical Bulletins</i>.</p>
<p><b>Deposit of Waste</b> – a deposit of Waste in any Water or in any other place under conditions in which the Waste, or any other Waste that results from the deposit of that Waste, may enter any Waters.</p>
<p><b>Dewatering</b> – the complete removal of Water from an existing Watercourse, or portion thereof, by pumping or draining.</p>
<p><b>Discharge</b> – a direct or indirect deposit or release of any Water or Wastewater to Water to the Receiving Environment.</p>
<p><b>Effluent</b> – a Wastewater Discharge.</p>
<p><b>Effluent Quality Criteria (EQC)</b> – numerical or narrative limits on the quality or quantity of the Effluent authorized for deposit to Receiving Water.</p>

<p><b>Engagement Plan</b> – a document, developed in accordance with the LWB <i>Engagement and Consultation Policy</i> and the <i>Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits</i>, that clearly describes how, when, and which engagement activities will occur with an affected party during the life of the Project.</p>
<p><b>Engineered Structure</b> – any structure or facility related to Water Use or the disposal or Deposit of Waste that is designed by a Professional Engineer, including but not limited to the structures and facilities associated with the Project.</p>
<p><b>Greywater</b> – all liquid Waste from showers, baths, sinks, kitchens, and domestic washing facilities, but does not include Toilet Waste.</p>
<p><b>Groundwater</b> – as defined in section 2 of the Mackenzie Valley Federal Areas Waters Regulations: all water in a zone of saturation below the land surface, regardless of its origin.</p>
<p><b>Hazardous Waste</b> - a Waste which, because of its quantity, concentration, or characteristics, may be harmful to human health or the environment when improperly treated, stored, transported, or disposed of.</p>
<p><b>Hydrocarbon-Contaminated Soil Treatment Facilities</b> – the area(s) and-Engineered Structures designated to contain and treat hydrocarbon-contaminated sediments and soil.</p>
<p><b>Inspector</b> – an Inspector designated by the Minister under subsection 84(1) of the <i>Mackenzie Valley Resource Management Act</i>.</p>
<p><b>Licensee</b> – the holder of this Licence.</p>
<p><b>Mackenzie Valley Federal Areas Waters Regulations</b> – the regulations proclaimed pursuant to section 90.3 of the <i>Mackenzie Valley Resource Management Act</i>.</p>
<p><b>Maximum Average Concentration</b> – the concentration of a parameter that cannot be exceeded by the running average of any four consecutive analytical results.</p>
<p><b>Maximum Grab Concentration</b> – the concentration of a parameter that cannot be exceeded in any one analytical result.</p>
<p><b>Metal Leaching</b> – the release of metals and metalloids in leachate, Seepage, or drainage from rock or other materials associated with the Project.</p>
<p><b>Minewater</b> – Groundwater, surface Water, or any Water that is pumped, seeps, or flows out of any underground mine working or open pit.</p>
<p><b>Minister</b> – the Minister of Northern Affairs.</p>

<p><b>Ordinary High-Water Mark</b> – the usual or average level to which a Watercourse rises at its highest point and remains for sufficient time so as to change the characteristics of the land. In flowing Watercourses (rivers, streams), this refers to an active channel/bank-full level, which is often the 1:2-year flood flow return level. In inland lakes, wetlands or marine environments, it refers to those parts of the Watercourse bed and banks that are frequently flooded by Water so as to leave a mark on the land and where the natural vegetation changes from predominantly aquatic vegetation to terrestrial vegetation (excepting Water tolerant species). For reservoirs, this refers to normal high operating levels (full supply level).</p>
<p><b>Processed Kimberlite</b> – the material rejected from the process plant after the recoverable materials have been extracted.</p>
<p><b>Professional Engineer</b> – a person registered with the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists to practice as a Professional Engineer in the Northwest Territories as per the territorial <i>Engineering and Geoscience Professions Act</i> and whose professional field of specialization is appropriate to address the components of the Project at hand.</p>
<p><b>Professional Geoscientist</b> – a person registered with the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists to practice as a Professional Geoscientist in the Northwest Territories as per the territorial <i>Engineering and Geoscience Professions Act</i> and whose professional field of specialization is appropriate to address the components of the Project at hand.</p>
<p><b>Progressive Reclamation</b> – Closure and Reclamation activities conducted during the operating phase of the Project.</p>
<p><b>Project</b> – the undertaking described in Part A, Conditions 1 and 2.</p>
<p><b>Receiving Environment</b> – the natural environment that, directly or indirectly, receives any Waste from the Project.</p>
<p><b>Receiving Water</b> – the Water in the Receiving Environment that receives any direct or indirect Deposit of Waste from the Project.</p>
<p><b>Reclamation Research</b> – literature reviews, laboratory or pilot-scale tests, engineering studies, and other methods of resolving uncertainties and answering questions pertaining to environmental risks for the purpose of providing data and information that will reduce uncertainties for closure options, selected closure activities, and/or closure criteria.</p>
<p><b>Remediation</b> – the removal, reduction, or neutralization of substances, Wastes, or hazardous materials from a site in order to prevent or minimize any adverse effects on the environment and public safety, now or in the future.</p>
<p><b>Response Framework</b> – a systematic approach to responding to the results of a monitoring program through adaptive management actions.</p>



<b>Response Plan</b> – a document describing the actions that will be taken by the Licensee in response to an Action Level exceedance.
<b>Runoff</b> – the overland flow of Water or Wastewater that occurs when precipitation, meltwater, or other Water is not absorbed by the land.
<b>Seepage</b> – any Water or Waste that drains, passes through, or escapes from any structure designed to contain, withhold, divert, or retain Water or Waste.
<b>Settling Pond</b> – any above or below-grade natural or human-made depression designated for separating solids from Water or Wastewater.
<b>Sewage</b> – all Toilet Wastes and Greywater.
<b>Sewage Disposal Facilities</b> – the area(s) and structures designated to contain and treat Sewage.
<b>Solid Waste Disposal Facilities</b> – the area(s) and structures designated to contain solid Waste.
<b>Spill Contingency Plan (SCP)</b> – a document developed for the Project in accordance with INAC’s <i>Guidelines for Spill Contingency Planning</i> .
<b>Sump</b> – a human-made excavation or a natural depression designated for depositing Water and/or Waste.
<b>Surveillance Network Program (SNP)</b> – a monitoring program required by this Licence and detailed in Schedule 1.
<b>Tailings</b> – the materials rejected from the processing facilities after the recoverable valuable minerals have been extracted.
<b>Tailings Containment Facilities</b> – the area(s) and Engineered Structures designated to contain Tailings.
<b>Temporary Closure</b> – a state of care and maintenance, with the intent of resuming Project activities in the near future.
<b>Toilet Wastes</b> – all human excreta and associated products, not including Greywater.
<b>Traditional Knowledge</b> – the cumulative, collective body of knowledge, experience and values built up by a group of people through generations of living in close contact with nature. It builds upon the historic experiences of a people and adapts to social, economic, environmental, spiritual, and political change.
<b>Unauthorized Release</b> – a release to the Receiving Environment of any Water or Waste not authorized under this Licence.

<p><b>Waste</b> – as defined in section 51 of the <i>Mackenzie Valley Resource Management Act</i>: any substance that would, to an extent that is detrimental to its use by people or by any animal, fish or plant, degrade or alter or form part of a process of degradation or alteration of the quality of any water to which it is added. Alternatively, it means any water that contains a substance in such a quantity or concentration or that has been so treated, processed or changed, by heat or other means, that it would, if added to any other water, degrade or alter or form part of a process of degradation or alteration of the quality of that other water to which it is added. It includes:</p> <ul style="list-style-type: none"> <li>a) any substance or water that is deemed, under subsection 2(2) of the <i>Canada Water Act</i>, to be waste;</li> <li>b) any substance or class of substances prescribed by regulations made under subparagraph 90.3(1)(b)(i);</li> <li>c) water that contains any substance or class of substances in a quantity or concentration that is equal to or greater than a quantity or concentration prescribed</li> <li>d) in respect of that substance or class of substances by regulations made under subparagraph 90.3(1)(b)(ii); and</li> <li>e) water that has been subjected to a treatment, process or change prescribed by regulations made under subparagraph 90.3(1)(b)(iii).</li> </ul>
<p><b>Waste Disposal Facilities</b> – the area(s) and structures designated for the disposal of Waste.</p>
<p><b>Waste Management Plan (WMP)</b> – a document, developed in accordance with the MVLWB <i>Guidelines for Developing a Waste Management Plan</i>, that describes the methods of Waste management for the Project from Waste generation to final disposal.</p>
<p><b>Waste Rock</b> – all rock materials, except ore and Tailings or Processed Kimberlite, which are produced as a result of mining and milling operations.</p>
<p><b>Waste Rock Storage Facilities</b> – the area(s) and Engineered Structures designated for the disposal of Waste Rock, overburden, and/or till.</p>
<p><b>Wastewater</b> – any Water that is generated by Project activities or originates on-site, and which contains Waste, and may include, but is not limited to, Runoff, Seepage, Sewage, Minewater, and Effluent.</p>
<p><b>Wastewater Management Pond(s)</b> – the area(s) and structures designated to collect and store Wastewater.</p>
<p><b>Wastewater Treatment Facilities</b> – the area(s) and structures designated for the treatment of Wastewater.</p>
<p><b>Water</b> – as defined in section 51 of the <i>Mackenzie Valley Resource Management Act</i>: any inland waters, whether in a liquid or frozen state, on or below the surface of land.</p>

**Watercourse** – as defined in section 2 of the Mackenzie Valley Federal Areas Waters Regulations: a natural watercourse, body of Water or Water supply, whether usually containing Water or not, and includes, but is not limited to, Groundwater, springs, swamps, and gulches.

**Water Management Area** – a geographical area of the Northwest Territories established by section 3 and Schedule 1 of the Mackenzie Valley Federal Areas Waters Regulations.

**Water Supply Facilities** – the area(s) and structures designed to collect, treat, and supply Water for the Project.

**Water Use** – as defined in section 51 of the *Mackenzie Valley Resource Management Act*: a direct or indirect use of any kind other than a use connected with shipping activities that are governed by the *Canada Shipping Act, 2001*, including

- a) any diversion or obstruction of waters;
- b) any alteration of the flow of waters; and
- c) any alteration of the bed or banks of a river, stream, lake or other body of water, whether or not the body of water is seasonal.

<b>Part B: General Conditions</b>		
	<b>Condition</b>	<b>Condition Title</b>
1.	The Licensee shall ensure a copy of this Licence is maintained on site at all times.	<b>COPY OF LICENCE</b>
2.	The Licensee shall take every reasonable precaution to protect the environment.	<b>PRECAUTION TO PROTECT ENVIRONMENT</b>
3.	In conducting its activities under this Licence, the Licensee shall make every reasonable effort to consider and incorporate any scientific information and Traditional Knowledge that is made available to the Licensee.	<b>INCORPORATE SCIENTIFIC INFORMATION AND TRADITIONAL KNOWLEDGE</b>
4.	In each submission required by this Licence or by any directive from the Board, the Licensee shall identify all recommendations based on Traditional Knowledge received, describe how the recommendations were incorporated into the submission, and provide justification for any recommendation not adopted.	<b>IDENTIFY TRADITIONAL KNOWLEDGE</b>
5.	All references to policies, guidelines, codes of practice, statutes, regulations, or other authorities shall be read as a reference to the most recent versions, unless otherwise noted.	<b>REFERENCES</b>
6.	The Licensee shall ensure all submissions to the Board: a) Are in accordance with the LWB <i>Document Submission Standards</i> and, if applicable, <i>Geospatial Data Submissions Standards</i> ; and b) Include any additional information requested by the Board.	<b>SUBMISSION FORMAT</b>
7.	The Licensee shall ensure management plans are submitted to the Board in a format consistent with the LWB <i>Standard Outline for Management Plans</i> , unless otherwise specified.	<b>MANAGEMENT PLAN FORMAT</b>
8.	The Licensee shall comply with all plans, programs, manuals, and studies, including revisions, approved pursuant to the conditions of this Licence.	<b>COMPLY WITH SUBMISSIONS AND REVISIONS</b>
9.	The Licensee shall conduct an annual review of all plans, programs, manuals, and studies and make any revisions necessary to reflect changes in operations, contact information, or other details. No later than March 31 each year, the Licensee shall send a notification letter to the Board, listing the documents that have been reviewed and do not require revisions.	<b>ANNUAL REVIEW</b>

10.	The Licensee may propose changes at any time by submitting revised plans, programs, manuals, or studies that require Board approval to the Board, for approval, a minimum of 90 days prior to the proposed implementation date for the changes. The Licensee shall not implement the changes until approved by the Board.	<b>REVISIONS</b>
11.	The Licensee shall revise any submission and submit it as per the Board's directive.	<b>REVISE AND SUBMIT</b>
12.	If any date for any submission falls on a weekend or holiday, the Licensee may submit the item on the following business day.	<b>SUBMISSION DATE</b>
13.	The Licensee shall comply with the <b>Schedules</b> , which form part of this Licence, and any updates to the Schedules as may be made by the Board.	<b>COMPLY WITH SCHEDULE(S)</b>
14.	The Licensee shall comply with the <b>Surveillance Network Program</b> set out in Schedule 1, and any updates to the Surveillance Network Program as may be made by the Board.	<b>COMPLY WITH SURVEILLANCE NETWORK PROGRAM</b>
15.	The Licensee shall comply with the Annexes, which form part of this Licence.	<b>COMPLY WITH ANNEX(ES)</b>
16.	The Schedules, the Surveillance Network Program, and any compliance dates specified in this Licence may be updated at the discretion of the Board.	<b>UPDATES TO SCHEDULES AND COMPLIANCE DATE(S)</b>
17.	The Licensee shall comply with all directives issued by the Board in respect of the implementation of the conditions of this Licence.	<b>COMPLY WITH BOARD DIRECTIVES</b>
18.	The Licensee shall ensure signs are posted for all active Surveillance Network Program stations. All sign(s) shall be located and maintained to the satisfaction of an Inspector.	<b>POST SURVEILLANCE NETWORK PROGRAM SIGN(S)</b>
19.	The Licensee shall install, operate, and maintain meters, devices, or other such methods for measuring the volumes of Water used and Waste disposed of to the satisfaction of an Inspector.	<b>MEASURE WATER USE AND WASTE DISCHARGED</b>
20.	Beginning March 31, 2025 and no later than every March 31 thereafter, the Licensee shall submit an <b>Annual Water Licence Report</b> to the Board and an Inspector. The Report shall be in accordance with the requirements of Schedule 2, Condition 1.	<b>ANNUAL WATER LICENCE REPORT</b>

21.	Within 90 days following the effective date of this Licence, the Licensee shall submit to the Board, for approval, a revised <b>Engagement Plan</b> . The Licensee shall not commence Project activities prior to Board approval of the Plan.	<b>ENGAGEMENT PLAN – REVISED</b>
22.	A minimum of ten days prior to the initial commencement of Project activities, the Licensee shall provide written notification to the Board and an Inspector. Notification shall include the commencement date, and the name and contact information for the individual responsible for overseeing the Project. Written notification shall be provided to the Board and an Inspector if any changes occur.	<b>NOTIFICATION – COMMENCEMENT</b>
23.	A minimum of ten days prior to re-commencement of Project activities following a temporary shut-down period, the Licensee shall provide written notification to the Board and an Inspector. Notification shall include the commencement date, and the name and contact information for the individual responsible for overseeing the Project. Written notification shall be provided to the Board and an Inspector if any changes occur.	<b>NOTIFICATION – RE-COMMENCEMENT</b>
24.	The Licensee shall immediately provide written notification to the Board and an Inspector of any non-compliance with the conditions of this Licence.	<b>NOTIFICATION – NON-COMPLIANCE WITH CONDITIONS</b>
25.	The Licensee shall immediately provide written notification to the Board of any non-compliance with a Board directive issued in respect of the implementation of the conditions of this Licence.	<b>NOTIFICATION – NON-COMPLIANCE WITH DIRECTIVES</b>
26.	The Licensee shall ensure that a copy of any written authorization issued to the Licensee by an Inspector is provided to the Board.	<b>COPY – WRITTEN AUTHORIZATION</b>
27.	The Licensee shall submit a current Project schedule to the Board and an Inspector upon request.	<b>SUBMIT CURRENT PROJECT SCHEDULE</b>
	<b>Part C: Security</b>	
	<i>Intentionally left blank.</i>	

<b>Part D: Water Use</b>		
1.	The Licensee shall only obtain if needed, fresh Water for the Project from the Water sources listed in Annex A. The Licensee may withdraw up to a combined total of 299 m <sup>3</sup> /day or 21,000 m <sup>3</sup> /year of Water from these sources.	<b>WATER SOURCE AND MAXIMUM VOLUME</b>
2.	In any single ice-covered season, the Licensee shall not withdraw greater than 10% of the available Water volume of any approved Water source, as calculated using the appropriate maximum expected ice thickness and bathymetric data, or, where bathymetric data is not available, in accordance with the <i>LWB/GNWT Method for Determining Available Winter Water Use Capacity for Small-Scale Projects</i> .	<b>MAXIMUM UNDER-ICE WATER WITHDRAWAL VOLUME</b>
3.	The Licensee shall only withdraw Water using the Water Supply Facilities, unless otherwise authorized temporarily in writing by an Inspector.	<b>WATER WITHDRAWAL – FACILITIES</b>
4.	Prior to withdrawing Water from an approved Water source, the Licensee shall post sign(s) to identify the intake for the Water Supply Facilities. All sign(s) shall be located and maintained to the satisfaction of an Inspector.	<b>POST WATER INTAKE SIGN(S)</b>
5.	The Licensee shall construct and maintain the Water intake(s) with a screen designed to prevent impingement or entrainment of fish. The screen shall be in accordance with the best practices outlined in Fisheries and Oceans Canada’s <i>Interim Code of Practice: End-of-Pipe Fish Protection Screens for Small Water Intakes in Freshwater</i> and <i>Fish Screen Design Criteria for Flood and Water Truck Pumps</i> .	<b>WATER INTAKE SCREEN</b>
6.	Prior to locating a Water intake in a fish-bearing Watercourse, the Licensee shall obtain written authorization for the location from an Inspector.	<b>WATER INTAKE LOCATION – AUTHORIZATION</b>
<b>Part E: Construction</b>		
1.	The Licensee shall ensure that all structures intended to contain, withhold, divert, or retain Water or Waste are designed, constructed, and maintained to minimize the escape of Waste to the Receiving Environment.	<b>OBJECTIVE – CONSTRUCTION</b>
2.	The Licensee shall ensure that all structures intended to contain, withhold, divert, or retain Water or Wastes, and which meet the definition of a Dam as per the <i>Dam Safety Guidelines</i> are designed, constructed, maintained, and monitored to meet or exceed the <i>Dam Safety Guidelines</i> .	<b>DAMS – GENERAL</b>

3.	The Licensee shall ensure that all Hydrocarbon-Contaminated Soil Treatment Facilities are designed, constructed, maintained, monitored, and closed to meet or exceed the LWB/IWB/GNWT <i>Guideline for Design, Operation, Maintenance, and Closure of Petroleum Hydrocarbon-Contaminated Soil Treatment Facilities in the Northwest Territories</i> .	<b>HYDROCARBON-CONTAMINATED SOIL TREATMENT FACILITIES – GENERAL</b>
4.	The Licensee shall ensure that all Engineered Structures are constructed and maintained in accordance with the recommendations of the Professional Engineer responsible for the design, including, but not limited to, recommendations regarding field supervision and inspection requirements.	<b>ENGINEERED STRUCTURES – GENERAL</b>
5.	The Licensee shall only use material that is clean and free of contaminants and that has been authorized in writing by an Inspector.	<b>CONSTRUCTION MATERIAL – SOURCE(S)</b>
6.	The Licensee shall maintain records of Construction materials for all structures and make them available at the request of the Board or an Inspector.	<b>CONSTRUCTION RECORDS</b>
7.	The Licensee shall maintain geochemical records of Construction materials for all structures and make them available at the request of the Board or an Inspector.	<b>GEOCHEMICAL RECORDS</b>
8.	Unless otherwise authorized in writing by an Inspector, a minimum of 90 days prior to the commencement of Construction of all structures, excluding Engineered Structures, intended to contain, withhold, divert, or retain Water or Wastes, the Licensee shall submit to the Board, for approval, a <b>Structure Description and Construction Plan</b> . The Plan shall be in accordance with the requirements of Schedule 3, Condition 1. The Licensee shall not commence Construction of the structure(s) prior to Board approval of the Plan.	<b>STRUCTURE DESCRIPTION AND CONSTRUCTION PLAN</b>
9.	A minimum of 90 days prior to the commencement of Construction of any Engineered Structures, the Licensee shall submit to the Board, for approval, a <b>Design and Construction Plan</b> . The Plan shall be in accordance with the requirements of Schedule 3, Condition 2. The Licensee shall not commence Construction of the Engineered Structure(s) prior to Board approval of the Plan.	<b>DESIGN AND CONSTRUCTION PLAN</b>
10.	A minimum of 90 days prior to the commencement of Construction of any Engineered Structures, the Licensee shall submit to the Board, <b>Design Drawings</b> stamped and signed by a Professional Engineer. A minimum of 90 days prior to implementing any proposed changes to the Design Drawings, the Licensee shall submit revised Design Drawings to the Board.	<b>DESIGN DRAWINGS</b>



11.	A minimum of ten days prior to the commencement of Construction of any Engineered Structure(s), the Licensee shall provide written notification to the Board and an Inspector. Notification shall include the Construction commencement date, and the name and contact information for the individual responsible for overseeing Construction. Written notification shall be provided to the Board and an Inspector if any changes occur.	<b>NOTIFICATION – CONSTRUCTION – ENGINEERED STRUCTURES</b>
12.	A minimum of ten days prior to the commencement of Construction of any structure(s) intended to contain, withhold, divert, or retain Water or Wastes, the Licensee shall provide written notification to the Board and an Inspector. Notification shall include the Construction commencement date, and the name and contact information for the individual responsible for overseeing the Construction. Written notification shall be provided to the Board and an Inspector if any changes occur.	<b>NOTIFICATION – CONSTRUCTION</b>
13.	The Licensee shall ensure that all structures intended to contain, withhold, divert, or retain Water or Wastes, excluding Engineered Structures, are constructed in accordance with the approved <b>Structure Description and Construction Plan(s)</b> .	<b>CONSTRUCT AS DESIGNED – STRUCTURE(S)</b>
14.	The Licensee shall ensure that all Engineered Structures are constructed in accordance with the <b>Design Drawings</b> and/or approved <b>Design and Construction Plan(s)</b> .	<b>CONSTRUCT AS DESIGNED – ENGINEERED STRUCTURE(S)</b>
15.	Within 90 days of the completion of the Construction of each Engineered Structure, the Licensee shall submit to the Board, an <b>As-Built Report</b> stamped and signed by a Professional Engineer, which shall include, but not be limited to, the following information:  a) final as-built drawings of the Engineered Structure(s), stamped and signed by a Professional Engineer; b) documentation, with rationale, of field decisions that deviate from the <b>Design and Construction Plans</b> and/or <b>Design Drawings</b> ; and c) any data used to support these decisions.	<b>AS-BUILT REPORT – ENGINEERED STRUCTURE(S)</b>
<b>Tailings Containment Facility Dams</b>		
16.	The Licensee shall retain an Engineer of Record for the Tailing Containment Facility.	<b>ENGINEER OF RECORD</b>
17.	The Licensee shall ensure that the Engineer of Record establishes and annually reviews the Dam Class for the Tailings Containment Facilities and shall report any changes to the Dam Class in the <b>Geotechnical Inspection Report</b> referred to in Part F, Condition 13 (ANNUAL GEOTECHNICAL INSPECTION).	<b>DAM CLASSIFICATION</b>

18.	The Licensee shall ensure that the Engineer of Record establishes quantifiable performance objectives for the Tailings Containment Facility and reviews the quantifiable performance objectives annually for the life of the Facility.	<b>QUANTIFIABLE PERFORMANCE OBJECTIVES</b>
<b>Part F: Waste and Water Management</b>		
1.	The Licensee shall manage Waste and Water with the objective of minimizing the impacts of the Project on the quantity and quality of Water in the Receiving Environment through the use of appropriate mitigation measures, monitoring, and follow-up actions.	<b>OBJECTIVE – WASTE AND WATER MANAGEMENT</b>
2.	The Licensee shall minimize erosion by implementing suitable erosion control measures that shall be located and maintained to the satisfaction of an Inspector.	<b>EROSION CONTROL</b>
<b>Management and Monitoring Plans</b>		
3.	Within 90 days following the effective date of this Licence, the Licensee shall submit to the Board, for approval, a revised <b>Waste Management Plan</b> . The Plan shall be in accordance with the requirements of Schedule 4, Condition 1. The Licensee shall not commence Project activities prior to Board approval of the Plan.	<b>WASTE MANAGEMENT PLAN - REVISED</b>
<b>Operation of Structures and Facilities</b>		
4.	The Licensee shall construct, operate, and maintain the structures and facilities to the design specifications and engineering standards, such that: <ul style="list-style-type: none"> <li>a) Any constructed structures/facilities are maintained and operated so as to prevent structural failure;</li> <li>b) Any Seepage from the facilities that does not meet Effluent Quality Criteria, as specified in Part F, Condition 18 (EFFLUENT QUALITY CRITERIA) shall be collected and returned to the structures and/or facility;</li> <li>c) Any deterioration or erosion of constructed structures/facilities shall be reported immediately to an Inspector;</li> <li>d) Any deterioration or erosion of constructed structures/facilities that requires repair shall be reported to an Inspector and the Board, and repaired immediately;</li> <li>e) Monitoring of the facility is sufficient to ensure that: <ul style="list-style-type: none"> <li>i. Performance design criteria are being met; and</li> <li>ii. Necessary changes in operation of the facility, including any additional mitigations, are identified.</li> </ul> </li> </ul>	<b>STRUCTURES AND FACILITIES</b>

5.	The Licensee shall operate and maintain the Waste Disposal Facilities to prevent structural failure and to the satisfaction of an Inspector.	<b>PREVENT STRUCTURAL FAILURE</b>
<b>Inspection of Structures and Facilities</b>		
6.	The Licensee shall conduct annual inspections of the structures/facilities or as otherwise directed by an Inspector or the Board. Records of these inspections shall be made available to the Board or an Inspector upon request.	<b>ANNUAL INSPECTION OF STRUCTURES / FACILITIES</b>
7.	The Licensee shall conduct daily erosion inspections of Discharge locations, during periods of Discharge, or more frequently as directed by an Inspector. Records of these inspections shall be made available to the Board or an Inspector upon request.	<b>DAILY INSPECTIONS OF DISCHARGE LOCATIONS</b>
8.	<p>The Licensee shall ensure that geotechnical inspections of all Engineered Structures are conducted annually, and following any events that exceed design criteria, by a Professional Engineer. The Licensee shall:</p> <ul style="list-style-type: none"> <li>a) A minimum of two weeks prior to the annual inspection, and when events that exceed design criteria occur, provide written notification to an Inspector; and</li> <li>b) Within 90 days of completing the inspection, submit the Professional Engineer’s full <b>Geotechnical Inspection Report</b> to the Board and an Inspector. The Report shall include: <ul style="list-style-type: none"> <li>i. a covering letter from the Licensee outlining an implementation plan to respond to any recommendations made by the Professional Engineer, including rationale for any decisions that deviate from the Professional Engineer’s recommendations;</li> <li>ii. a summary of any actions taken by the Licensee to address the recommendations made following the previous year’s inspection.</li> </ul> </li> </ul>	<b>ANNUAL GEOTECHNICAL INSPECTION</b>
<b>Discharge and Disposal Locations and Rates</b>		
9.	The Licensee shall dispose of all Waste as described in the approved <b>Waste Management Plan</b> .	<b>NON- HAZARDOUS WASTE AND HAZARDOUS WASTE</b>
10.	The Licensee shall discharge all Effluent as described in the approved <b>Waste Management Plan</b> .	<b>EFFLUENT DISCHARGE</b>
11.	A minimum of ten days prior to disposing of any Waste into a licenced municipal facility, the Licensee shall provide written notification to the Board and an Inspector.	<b>NOTIFICATION – WASTE DISPOSAL</b>

12.	The Licensee shall not dispose of Waste, including Wastewater, to any Watercourse, or to the ground surface within 100 metres of the Ordinary High-Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector.	<b>DISPOSAL LOCATION – ORDINARY HIGH-WATER MARK</b>																																		
<b>Effluent Quality Criteria</b>																																				
13.	<p><b>Sewage and Grey Water</b> effluent discharged from the Project at Surveillance Network Program Stations S15L8-001 (1) and S15L8-001(2) must meet the following Effluent Quality Criteria (EQC):</p> <table border="1" data-bbox="253 596 1159 821"> <thead> <tr> <th>Parameter</th> <th>Maximum Grab Concentration</th> </tr> </thead> <tbody> <tr> <td>Suspended Solids</td> <td>100 mg/L</td> </tr> <tr> <td>Oil and Grease</td> <td>5 mg/L and non-visible</td> </tr> <tr> <td>BOD<sub>5</sub></td> <td>100 mg/L</td> </tr> <tr> <td>Fecal Coliforms</td> <td>1 x 10<sup>4</sup> CFU/100 mL</td> </tr> <tr> <td>pH</td> <td>6 – 9 pH</td> </tr> </tbody> </table>	Parameter	Maximum Grab Concentration	Suspended Solids	100 mg/L	Oil and Grease	5 mg/L and non-visible	BOD <sub>5</sub>	100 mg/L	Fecal Coliforms	1 x 10 <sup>4</sup> CFU/100 mL	pH	6 – 9 pH	<b>EFFLUENT QUALITY CRITERIA – SEWAGE AND GREY WATER</b>																						
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pH	6 – 9 pH																																			
14.	<p><b>Process Water</b> effluent discharged from the Process Water treatment plant at SNP Station S15L8-001(3) must meet the following Effluent Quality Criteria (EQC):</p> <table border="1" data-bbox="253 1016 1159 1751"> <thead> <tr> <th>Parameter</th> <th>Maximum Grab Concentration</th> </tr> </thead> <tbody> <tr> <td>Volatile Hydrocarbons</td> <td>15 mg/L</td> </tr> <tr> <td>pH</td> <td>6 – 9 pH</td> </tr> <tr> <td>Extractable Hydrocarbons</td> <td>5 mg/L</td> </tr> <tr> <td>Oil and Grease</td> <td>5 mg/L, non-visible</td> </tr> <tr> <td>Non-aqueous Phase Liquid (NAPL) / Free Product</td> <td>Not present</td> </tr> <tr> <td>Arsenic (total)</td> <td>100 µg/L</td> </tr> <tr> <td>Cadmium (dissolved)</td> <td>10 µg/L</td> </tr> <tr> <td>Chromium (total)</td> <td>100 µg/L</td> </tr> <tr> <td>Cobalt (dissolved)</td> <td>50 µg/L</td> </tr> <tr> <td>Copper (dissolved)</td> <td>200 µg/L</td> </tr> <tr> <td>Lead (dissolved)</td> <td>50 µg/L</td> </tr> <tr> <td>Mercury (total)</td> <td>0.6 µg/L</td> </tr> <tr> <td>Nickel (dissolved)</td> <td>200 µg/L</td> </tr> <tr> <td>Zinc (total)</td> <td>1 mg/L</td> </tr> <tr> <td>Phenols</td> <td>20 µg/L</td> </tr> <tr> <td>Total Suspended Solids (TSS)</td> <td>30 mg/L</td> </tr> </tbody> </table>	Parameter	Maximum Grab Concentration	Volatile Hydrocarbons	15 mg/L	pH	6 – 9 pH	Extractable Hydrocarbons	5 mg/L	Oil and Grease	5 mg/L, non-visible	Non-aqueous Phase Liquid (NAPL) / Free Product	Not present	Arsenic (total)	100 µg/L	Cadmium (dissolved)	10 µg/L	Chromium (total)	100 µg/L	Cobalt (dissolved)	50 µg/L	Copper (dissolved)	200 µg/L	Lead (dissolved)	50 µg/L	Mercury (total)	0.6 µg/L	Nickel (dissolved)	200 µg/L	Zinc (total)	1 mg/L	Phenols	20 µg/L	Total Suspended Solids (TSS)	30 mg/L	<b>EFFLUENT QUALITY CRITERIA – PROCESS WATER</b>
Parameter	Maximum Grab Concentration																																			
Volatile Hydrocarbons	15 mg/L																																			
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15.	<p><b>Landfarm Waste</b> effluent discharged at SNP Station S17L8-002(14I) a,b,c must meet the following Effluent Quality Criteria (EQC):</p> <table border="1" data-bbox="253 264 1130 989"> <thead> <tr> <th>Parameter</th> <th>Maximum Grab Concentration</th> </tr> </thead> <tbody> <tr> <td>Volatile Hydrocarbons</td> <td>15 mg/L</td> </tr> <tr> <td>pH</td> <td>6 – 9 pH</td> </tr> <tr> <td>Extractable Hydrocarbons</td> <td>5 mg/L</td> </tr> <tr> <td>Oil and Grease</td> <td>5 mg/L, non-visible</td> </tr> <tr> <td>Non-aqueous Phase Liquid (NAPL)/Free Product</td> <td>Not present</td> </tr> <tr> <td>Arsenic (total)</td> <td>100 µg/L</td> </tr> <tr> <td>Cadmium (dissolved)</td> <td>10 µg/L</td> </tr> <tr> <td>Chromium (total)</td> <td>100 µg/L</td> </tr> <tr> <td>Cobalt (dissolved)</td> <td>50 µg/L</td> </tr> <tr> <td>Copper (dissolved)</td> <td>200 µg/L</td> </tr> <tr> <td>Lead (dissolved)</td> <td>50 µg/L</td> </tr> <tr> <td>Mercury (total)</td> <td>0.6 µg/L</td> </tr> <tr> <td>Nickel (dissolved)</td> <td>200 µg/L</td> </tr> <tr> <td>Zinc (total)</td> <td>1 mg/L</td> </tr> <tr> <td>Phenols</td> <td>20 µg/L</td> </tr> <tr> <td>Polychlorinated Biphenyl (PCBs)</td> <td>1 mg/L</td> </tr> </tbody> </table>	Parameter	Maximum Grab Concentration	Volatile Hydrocarbons	15 mg/L	pH	6 – 9 pH	Extractable Hydrocarbons	5 mg/L	Oil and Grease	5 mg/L, non-visible	Non-aqueous Phase Liquid (NAPL)/Free Product	Not present	Arsenic (total)	100 µg/L	Cadmium (dissolved)	10 µg/L	Chromium (total)	100 µg/L	Cobalt (dissolved)	50 µg/L	Copper (dissolved)	200 µg/L	Lead (dissolved)	50 µg/L	Mercury (total)	0.6 µg/L	Nickel (dissolved)	200 µg/L	Zinc (total)	1 mg/L	Phenols	20 µg/L	Polychlorinated Biphenyl (PCBs)	1 mg/L	<p><b>EFFLUENT QUALITY CRITERIA – LANDFARM WASTEWATER</b></p>
Parameter	Maximum Grab Concentration																																			
Volatile Hydrocarbons	15 mg/L																																			
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Zinc (total)	1 mg/L																																			
Phenols	20 µg/L																																			
Polychlorinated Biphenyl (PCBs)	1 mg/L																																			
16.	<p><b>Ho Hum Wetland Tailings Containment Area to Moose Bay Waste</b> effluent discharged at SNP Stations S17L8-002 (7A) and (7B) must meet the following Effluent Quality Criteria (EQC):</p> <table border="1" data-bbox="253 1209 1141 1787"> <thead> <tr> <th>Parameter</th> <th>Maximum Grab Concentration</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>6 – 9 pH</td> </tr> <tr> <td>Oil and Grease</td> <td>5 mg/L, non-visible</td> </tr> <tr> <td>Aluminum (total)</td> <td>0.8 mg/L</td> </tr> <tr> <td>Arsenic (total)</td> <td>1.0 mg/L (at 7A); 0.2 mg/L (at 7B)</td> </tr> <tr> <td>Copper (total)</td> <td>0.02 mg/L</td> </tr> <tr> <td>Lead (total)</td> <td>0.02 mg/L</td> </tr> <tr> <td>Nickel (total)</td> <td>0.1 mg/L</td> </tr> <tr> <td>Silver (total)</td> <td>0.004 mg/L</td> </tr> <tr> <td>Zinc (total)</td> <td>0.04 mg/L</td> </tr> <tr> <td>Ammonia as N</td> <td>10 mg/L</td> </tr> <tr> <td>Nitrate as N</td> <td>10 mg/L</td> </tr> <tr> <td>Nitrite as N</td> <td>0.8 mg/L</td> </tr> <tr> <td>Total Suspended Solids</td> <td>30 mg/L</td> </tr> </tbody> </table>	Parameter	Maximum Grab Concentration	pH	6 – 9 pH	Oil and Grease	5 mg/L, non-visible	Aluminum (total)	0.8 mg/L	Arsenic (total)	1.0 mg/L (at 7A); 0.2 mg/L (at 7B)	Copper (total)	0.02 mg/L	Lead (total)	0.02 mg/L	Nickel (total)	0.1 mg/L	Silver (total)	0.004 mg/L	Zinc (total)	0.04 mg/L	Ammonia as N	10 mg/L	Nitrate as N	10 mg/L	Nitrite as N	0.8 mg/L	Total Suspended Solids	30 mg/L	<p><b>EFFLUENT QUALITY CRITERIA – HO HUM WETLAND TAILINGS CONTAINMENT AREA TO MOOSE BAY WASTE WATER</b></p>						
Parameter	Maximum Grab Concentration																																			
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17.	The Licensee shall ensure that Discharge shall not be acutely toxic to aquatic life as determined by the test methods referenced in the Surveillance Network Program in Schedule 1.	<b>EFFLUENT QUALITY – TOXICITY</b>
18.	<p>The Licensee shall submit Water quality data for samples collected from Surveillance Network Program stations to the Board and an Inspector as follows:</p> <p>a) A minimum of five days prior to commencing or resuming Discharge of Effluent; and</p> <p>b) A minimum of five days prior to commencing or resuming Discharge of Effluent following an exceedance of the EQC specified in Part F, Condition 18 (EFFLUENT QUALITY CRITERIA) (the table).</p> <p>The Licensee shall not commence or resume the Discharge until the EQC are met and an Inspector has provided written authorization.</p>	<b>TESTING BEFORE DISCHARGE</b>
19.	<p>If Water quality data from any sample collected at Surveillance Network Program stations exceeds the EQC specified in Part F, Condition 18 (EFFLUENT QUALITY CRITERIA), or is determined to be acutely toxic as per Part F, Condition 19 (EFFLUENT QUALITY - TOXICITY), the Licensee shall:</p> <p>a) Cease the Discharge;</p> <p>b) Notify the Board and an Inspector immediately;</p> <p>c) Report the spill immediately in accordance with the <b>Spill Contingency Plan</b> referred to in Part H, Condition 2;</p> <p>d) Comply with the approved <b>Waste Management Plan</b> referred to in Part F, Condition 3; and</p> <p>e) Within 30 days of initially reporting the incident, or within a timeframe authorized by an Inspector, submit a detailed report on the occurrence, including a summary of corrective actions taken, to the Board and an Inspector.</p>	<b>EFFLUENT QUALITY CRITERIA – EXCEEDANCE</b>
<b>Other</b>		
<b>Part G: Aquatic Effects Monitoring</b>		
<i>Intentionally left blank.</i>		
<b>Part H: Spill Contingency Planning</b>		
1.	The Licensee shall ensure that Unauthorized Releases associated with the Project do not enter any Water.	<b>OBJECTIVE – PREVENT WASTE INTO WATER</b>
2.	Within 90 days following the effective date of this Licence, the Licensee shall submit to the Board, for approval, a revised <b>Spill Contingency Plan</b> . The Licensee shall not commence Project activities prior to Board approval of the Plan.	<b>SPILL CONTINGENCY PLAN – REVISED</b>

3.	<p>If a spill or an Unauthorized Release occurs or is foreseeable, the Licensee shall:</p> <p>a) Implement the approved Spill Contingency Plan referred to in Part H, Condition 2;</p> <p>b) Report it immediately using the NU-NT Spill Report Form by one of the following methods:</p> <ul style="list-style-type: none"> <li>• Telephone: (867) 920-8130</li> <li>• E-mail: spills@gov.nt.ca</li> <li>• Online: Spill Reporting and Tracking Database</li> </ul> <p>c) Notify the Board and an Inspector immediately; and</p> <p>d) Within 30 days of initially reporting the incident, or within a timeframe authorized by an Inspector, submit a detailed report to the Board and an Inspector, including descriptions of causes, response actions, and any changes to procedures to prevent similar occurrences in the future. Written notification shall be provided to the Board and an Inspector if any changes occur.</p>	<b>REPORT SPILLS</b>
4.	The Licensee shall ensure that spill prevention infrastructure and spill response equipment is in place prior to commencement of the Project.	<b>SPILL PREVENTION AND RESPONSE EQUIPMENT</b>
5.	The Licensee shall restore all areas affected by spills and Unauthorized Releases to the satisfaction of an Inspector.	<b>CLEAN UP SPILLS</b>
6.	The Licensee shall not establish any fuel storage facilities or refueling stations, or store chemicals or Wastes within 100 metres of the Ordinary High-Water Mark of any Watercourse, unless otherwise authorized in writing by an Inspector.	<b>MATERIAL STORAGE – ORDINARY HIGH-WATER MARK</b>
<b>Part I: Closure and Reclamation</b>		
1.	Within 18 months following the effective date of this Licence, the Licensee shall submit to the Board, for approval, a <b>Closure and Reclamation Plan</b> .	<b>CLOSURE AND RECLAMATION PLAN</b>

2.	One year prior to Progressive Reclamation of any specific component of the Project, and until a final Closure and Reclamation Plan is approved, the Licensee shall submit to the Board, for approval, a Component-Specific <b>Closure and Reclamation Plan</b> . The Licensee shall not commence activities described in the Plan prior to Board approval.	<b>COMPONENT-SPECIFIC CLOSURE AND RECLAMATION PLAN</b>
3.	The Licensee shall endeavor to carry out approved Progressive Reclamation as soon as is reasonably practicable.	<b>PROGRESSIVE RECLAMATION</b>
4.	The Licensee shall not conduct Progressive Reclamation except as approved by the Board.	<b>PROGRESSIVE RECLAMATION – CARRY OUT AS APPROVED</b>
5.	Beginning March 31, 2025 and no later than every March 31 thereafter, the Licensee shall provide written notification to the Board and an Inspector of any approved Progressive Reclamation that will be conducted in the upcoming year. Notification shall include the name and contact information for the individual responsible for overseeing the Progressive Reclamation. Written notification shall be provided to the Board and an Inspector if any changes occur.	<b>PROGRESSIVE RECLAMATION – NOTIFICATION</b>



## Schedule 1: Surveillance Network Program (SNP)

### Reporting Requirements

1. The effective date of this Surveillance Network Program (SNP) is July 18, 2024
2. The Licencee shall, unless otherwise requested by the Inspector, include all of the data and information required by the Surveillance Network Program, in the Licencee's **Annual Water Licence Report**, which shall be submitted to the Board by March 31 of the year following the calendar year being reported. The Report shall include, but not be limited to the following:
  - a) Electronic and tabular summaries of all data and information generated under the SNP, including rationale for SNP stations where samples were not collected and results and interpretation of quality assurance/quality control procedures;
  - b) Graphical summaries and interpretation of the analytical results from the SNP samples collected at the points of compliance compared to applicable guidelines;
  - c) An explanation of any actions taken in response to any exceedances;
  - d) Information regarding the calibration and status of the meters and devices referred to in Part B, item 19 of this Licence;
  - e) The coordinates of all SNP stations, including an updated map identifying the locations of all the SNP stations; and
  - f) A tabular summary of cumulative Water Use.
3. More frequent sample collection may be required at the request of an Inspector.
4. All sampling, sample preservation, and analyses shall be conducted in accordance with methods prescribed in the Standard Methods for the examination of Water and Wastewater at the time of analysis, or by other such methods approved by an Analyst.
5. All analyses shall be performed in a laboratory accredited by the Canadian Association for Laboratory Accreditation (CALA) for the specific analyses to be performed or as approved by an Analyst.
6. The Licensee shall adhere to the **Quality Assurance and Quality Control Plan**, once approved, and shall annually review the Plan and make any necessary revisions to reflect changes in Operations or as directed by the Board. Revisions to the Plan shall be submitted to the Board for a decision.
7. If the **Quality Assurance and Quality Control Plan** is not approved by the Analyst, the Licensee shall revise the Plan according to the Analyst's direction and re-submit it to the Analyst for a decision.

### Surveillance Network Station Descriptions and Sampling Requirements

8. SNP Station information is set out below. The location of each Station is approximate and subject to approval from an Inspector.

#### **SNP Station Quick Reference Guide**

Station #	Description	Status
S15L8-001 (1)	Sewage and Grey Water	Inactive
S15L8-001(2)	Sewage and Grey Water	Inactive
S15L8-001(3)	Process Water from the Process Water treatment plant	Inactive
S17L8-002(14I) a, b, c	Landfarm Waste	Inactive
S17L8-002 (7A) and (7B)	Ho Hum Wetland TCA to Moose Bay Waste	Active
S17L8-002 (8C)	Hermandy Lake - Corresponding with station NO-7	Active
S17L8-002 (9D)	Camsell River - Corresponding with station NO-6	Active

S17L8-002 (10E)	Norex Waste Rock - Corresponding with station NX-3	Active
S17L8-002 (11F)	Camsell River-Corresponding with station NX-12	Active
S17L8-002 (12G)	Tailings Pond - Corresponding with established station CL-3	Active
S17L8-002 (13H)	Contact Lake - Corresponding with established station CL-26	Active

**SNP Station S17L8-002 (7A)**

<b>Description</b>	Ho Hum Tailings Containment Area (TCA) - Corresponding with station T-8	
<b>Location</b>	Silver Bear-Terra Mine	
<b>Sampling Frequency</b>	Annually when inactive; biweekly during open water season when Remediation is occurring	
<b>Sampling Parameters</b>	EQC as Part F, Condition 16, Total Suspended Solids {TSS}; Standard a.	
<b>Rationale for Station</b>	To monitor the quality of TCA Discharge to Moose Bay to ensure the Effluent Quality Criteria listed are met.	
<b>Status</b>	Active	

**SNP Station S17L8-002 (7B)**

<b>Description</b>	Moose Bay- Corresponding with station T-10	
<b>Location</b>	Silver Bear-Terra Mine	
<b>Sampling Frequency</b>	Annually when inactive; biweekly during open water season when Remediation is occurring	
<b>Sampling Parameters</b>	EQC as Part F, Condition 16, Total Suspended Solids (TSS); Standard a.	
<b>Rationale for Station</b>	To identify the potential influence of the quality of TCA Discharge on Moose Bay to ensure the effluent quality criteria listed in are met	
<b>Status</b>	Active	

**SNP Station S17L8-002 (8C)**

<b>Description</b>	Hermandy Lake - Corresponding with station NO-7	
<b>Location</b>	Silver Bear - Northrim Mine	
<b>Sampling Frequency</b>	Annually when inactive; monthly during open water season when Remediation is occurring	
<b>Sampling Parameters</b>	Non-aqueous phase liquid/free product; Total Suspended Solids; Standard a; Total Metals b; Hydrocarbon c;	
<b>Rationale for Station</b>	Tailings with Hermandy Lake	
<b>Status</b>	Active	

**SNP Station S17L8-002 (9D)**

<b>Description</b>	Camsell River - Corresponding with station NO-6	
<b>Location</b>	Silver Bear- Northrim Mine	
<b>Sampling Frequency</b>	Annually when inactive; monthly during open water season when Remediation is occurring	
<b>Sampling Parameters</b>	Non-aqueous phase liquid/free product; Total Suspended Solids; Standard a; Total Metals b; Hydrocarbon';	
<b>Rationale for Station</b>	Current estimated Seepage point of Hermandy Lake to Camsell River (additional station required when original Discharge pathway restored)	
<b>Status</b>	Active	

SNP Station S17L8-002 (10E)

<b>Description</b>	Norex Waste Rock - Corresponding with station NX-3
<b>Location</b>	Silver Bear - Norex Mine
<b>Sampling Frequency</b>	Annually
<b>Sampling Parameters</b>	Non-aqueous phase liquid/free product; Standard a; Total Metals b; Hydrocarbonc; Total Suspended Solids;
<b>Rationale for Station</b>	Monitor water from adit and Waste Rock
<b>Status</b>	Active

SNP Station S17L8-002 (11F)

<b>Description</b>	Camsell River-Corresponding with station NX-12
<b>Location</b>	Silver Bear -Norex Mine
<b>Sampling Frequency</b>	Annually
<b>Sampling Parameters</b>	Non-aqueous phase liquid/free product; Standard a; Total Metals b; Hydrocarbonc;
<b>Rationale for Station</b>	Monitor potential Discharge from Waste Rock and adit
<b>Status</b>	Active

SNP Station S17L8-002 (12G)

<b>Description</b>	Tailings Pond - Corresponding with established station CL-3
<b>Location</b>	Contact Lake Mine
<b>Sampling Frequency</b>	Annually when inactive; monthly during open water season when Remediation is occurring
<b>Sampling Parameters</b>	Non-aqueous phase liquid/free product; Standard a; Total Metals b; Hydrocarbonc;
<b>Rationale for Station</b>	Outflow of Tailings pond
<b>Status</b>	Active

SNP Station S17L8-002 (13H)

<b>Description</b>	Contact Lake - Corresponding with established station CL-26
<b>Location</b>	Contact Lake Mine
<b>Sampling Frequency</b>	Annually when inactive; monthly during open water season when Remediation is occurring
<b>Sampling Parameters</b>	Non-aqueous phase liquid/free product; Standard ' ;Total Suspended Solids; Total Metals b; Hydrocarbons
<b>Rationale for Station</b>	Discharge of Tailings pond to Contact Lake
<b>Status</b>	Active

SNP Station S15L8-001 (1) (from 2015 licence)

<b>Description</b>	Treated Sewage effluent prior to Discharge
<b>Location</b>	Camp Operations
<b>Sampling Frequency</b>	Prior to Discharge; monthly during Discharge
<b>Sampling Parameters</b>	EQC as Part F, Condition 13, Total Suspended Solids; BODs;Fecal Coliforms; pH
<b>Rationale for Station</b>	To characterize Sewage effluent and ensure effluent meets the criteria listed.
<b>Status</b>	Inactive until camp established

**SNP Station S15L8-001 (2) (from 2015 licence)**

<b>Description</b>	Treated Greywater prior to disposal
<b>Location</b>	Camp Operations
<b>Sampling Frequency</b>	Prior to Discharge; monthly during Discharge
<b>Sampling Parameters</b>	EQC as Part F, Condition 13, Total Suspended Solids; BODs;Fecal Coliforms; pH
<b>Rationale for Station</b>	To characterize Sewage effluent and ensure effluent meets the EQC
<b>Status</b>	Inactive until camp established

**SNP Station S15L8-001 (3 a, b, c, d, ...) (from 2015 licence)**

<b>Description</b>	Treated Process Water prior to disposal
<b>Location</b>	Camp Operations
<b>Sampling Frequency</b>	Prior to Discharge
<b>Sampling Parameters</b>	EQC as Part F, Condition 14, Total and dissolved metals; Total Suspended Solids (TSS); Standard a;
<b>Rationale for Station</b>	Characterize Process Water and ensure effluent meets the EQC
<b>Status</b>	Inactive until camp established

**SNP Station S15L8-001 (4) (from 2015 licence)**

<b>Description</b>	Camsell River Intake
<b>Location</b>	Camp Operations
<b>Sampling Frequency</b>	Prior to use; monthly during use
<b>Sampling Parameters</b>	Quantity
<b>Rationale for Station</b>	To measure the quantity of water used.
<b>Status</b>	Inactive until camp established

**SNP Station S15L8-001 (5) (from 2015 licence)**

<b>Description</b>	Great Bear Lake Intake
<b>Location</b>	Camp Operations
<b>Sampling Frequency</b>	Prior to use; monthly during use
<b>Sampling Parameters</b>	Quantity
<b>Rationale for Station</b>	To measure the quantity of water used.
<b>Status</b>	Inactive until camp established

**SNP Station S17L8-02 (6)**

<b>Description</b>	Contact Lake Intake
<b>Location</b>	Camp Operations
<b>Sampling Frequency</b>	Prior to use; monthly during use
<b>Sampling Parameters</b>	Quantity
<b>Rationale for Station</b>	To measure the quantity of water used.
<b>Status</b>	Inactive until camp established

**SNP Station S17L8-002 (14I) a,b,c, etc.**

<b>Description</b>	Landfarm Discharge water – Effluent Discharge Location
<b>Location</b>	Landfarm at Silver Bear Mines, Sawmill Bay and El Bonanza/Bonanza
<b>Sampling Frequency</b>	Prior to any Discharge
<b>Sampling Parameters</b>	EQC as Part F, Condition 15, Standard a; Total Suspended Solids; Total Metals
<b>Rationale for Station</b>	Monitor quality of water proposed for Discharge from the landfarm to ensure it meets the EQC.
<b>Status</b>	Inactive until landfarms in use

**Footnotes:**

- a. Standard: pH, conductivity, hardness, sulphate
- b. Total Metals = Total elemental analysis by ICP-Metals of ICP-MS 24 element scan: Include all elements in Total Metals. includes all elements in Total Metals plus Antimony (Sb), Arsenic (As), Barium (Ba), Bismuth (**Bi**), Cesium (Cs), Chromium (Cr), Lithium (Li), Thallium (Tl), Titanium (Ti), Uranium (U), & Vanadium (V).
- c. Hydrocarbon: PHC (F1-F4) and BTEX

**Notes:**

G = general chemistry; TM = total metals; DM = dissolved metals; PHC = petroleum hydrocarbons (fractions F1-F4 and BTEX); SNP = surveillance network protocol parameters; RAD = radionuclides

**Other Monitoring Requirements – Surveillance Network Stations (SNP) that must meet EFFLUENT QUALITY CRITERIA (EQC) if discharge occurs:**

**Sewage and Grey Water** at SNP Stations S15L8-001 (1) and S15L8-001(2)

**Process Water** from the Process Water treatment plant at the SNP Station S15L8-001(3)

**Landfarm Waste** at SNP Station S17L8-002(14I) a, b, c

**Ho Hum Wetland TCA to Moose Bay Waste** at SNP Stations S17L8-002 (7A) and (7B)

It is noted the SNP stations for EQC monitoring listed above, are not yet active. Once they are established, the exact coordinates are to be provided and incorporated into future SNP station maps and/or figures.

## Schedule 2: Annual Water Licence Report

	Condition
1.	The <b>Annual Water Licence Report</b> referred to in Part B, Condition 20 of this Licence shall include, but not be limited to, the following information about activities conducted during the previous calendar year:
	a) A brief summary of Project activities;
	b) An updated Project schedule;
	c) The monthly and annual quantities in cubic metres of fresh Water obtained from all sources, as required in Part B, Condition 19 (MEASURE WATER USE AND WASTE DISPOSAL) of this Licence;
	d) A summary of the calibration and status of the meters and devices referred to in Part B, Condition 19 (MEASURE WATER USE AND WASTE DISPOSAL) of this Licence;
	e) A summary of engagement activities conducted in accordance with the approved <b>Engagement Plan</b> , referred to in Part B, Condition 21 of this Licence;
	f) A summary of how Traditional Knowledge was incorporated into decision making;
	g) A summary of Construction activities conducted in accordance with Part E of this Licence;
	h) A summary of major maintenance activities conducted in accordance with this Licence;
	i) A summary of activities conducted in accordance with the approved <b>Waste Management Plan</b> , referred to in Part F, Condition 3 of this Licence, including: <ul style="list-style-type: none"> <li>i. A summary of approved updates or changes to the process or facilities required for the management of Water, Waste and Wastewater;</li> <li>ii. Monthly and annual quantities, in cubic metres, of Water obtained from each approved source;</li> <li>iii. Monthly and annual quantities, in cubic metres, of Wastewater;</li> <li>iv. Monthly and annual quantities, in cubic metres, of all Discharges, identified by Discharge location;</li> <li>v. Monthly and annual flow volume, in cubic metres, at SNP stations, where applicable;</li> <li>vi. Monthly and annual quantities/volumes by location of Water, Waste (non-hazardous and hazardous), or Wastewater managed under the Plan;</li> <li>vii. A map depicting the location of Sumps;</li> <li>viii. A summary and interpretation of monitoring results, including any Action Level exceedances; and</li> <li>ix. A description of actions taken in response to any Action Level exceedances.</li> </ul>
	j) A summary of the results and any actions taken as a result of the following inspections: <ul style="list-style-type: none"> <li>i. Inspections conducted to fulfill Part F of this Licence; and</li> </ul>

	<b>Condition</b>
	ii. Inspections conducted under the Waste Management Plan, required under Part F of this Licence;
	k) A summary of activities conducted in accordance with the approved <b>Spill Contingency Plan</b> , referred to in Part H, Condition 2 of this Licence, including: <ul style="list-style-type: none"> <li>i. A list and description for all Spills and Unauthorized Releases, including the date, NWT spill number, volume, location, summary of the circumstances and follow-up actions taken, and status (i.e., open or closed), in accordance with the reporting requirements in Part H, Condition 4 of this Licence; and</li> <li>ii. An outline of any spill training carried out.</li> </ul>
	l) A summary of any Progressive Reclamation work completed.
	m) Tabular summaries of all data and information generated under the SNP in Schedule 1 of this Licence, in Excel format.
	n) A list of any non-compliance(s) with the conditions of this Licence or any directive from the Board pursuant to the conditions of this Licence;
	o) A summary of actions taken to address concerns, non-conformances, or deficiencies in any reports filed by an Inspector;
	p) Any other details requested by the Board by December of the year being reported.

### Schedule 3: Conditions Applying to Construction

	Condition
1.	The <b>Structure Description and Construction Plan</b> referred to in Part E, Condition 8 shall include, but not be limited to, the following:
	<p>a) Information regarding the facilities:</p> <ul style="list-style-type: none"> <li>i. A description of the facilities to be constructed, including the purpose of the facilities;</li> <li>ii. The proposed location(s) of the facilities, with GPS coordinates and a map to scale;</li> <li>iii. Relevant background information for the area beneath the footprint of the facilities, including the results of any investigations;</li> <li>iv. Construction specifications and performance parameters;</li> <li>v. A description of any operations and maintenance requirements associated with the facilities; and</li> <li>vi. An explanation of why the facilities do not need to be designed by a Professional Engineer.</li> </ul>
	<p>b) Information regarding the Construction of the facilities:</p> <ul style="list-style-type: none"> <li>i. A Construction schedule, including sequencing information;</li> <li>ii. A description of the materials required for Construction, including, but not limited to: <ul style="list-style-type: none"> <li>a. sources;</li> <li>b. quantities;</li> <li>c. physical characteristics; and</li> <li>d. geochemical characteristics.</li> </ul> </li> <li>iii. A description of any potential effects on the Receiving Environment associated with Construction of the facilities; and</li> <li>iv. A description of any mitigation measures that will be undertaken to minimize the potential impacts identified as per (b)(iii).</li> </ul>
	<p>c) Information regarding monitoring during Construction, including:</p> <ul style="list-style-type: none"> <li>i. A description of any monitoring that will be conducted to determine the potential impacts to the Receiving Environment and the effectiveness of the mitigation measures described as per (b)(iv), including, but not limited to: <ul style="list-style-type: none"> <li>a. locations;</li> <li>b. parameters;</li> <li>c. frequencies; and</li> <li>d. rationale.</li> </ul> </li> <li>ii. Linkages to other monitoring programs required in this Licence.</li> </ul>
	<p>d) A description of how monitoring will be evaluated and what actions may be taken in response to monitoring results.</p>



	<b>Condition</b>
2.	The <b>Design and Construction Plan</b> referred to in Part E, Condition 9 shall include, but not be limited to, the following:
	<p>a) Information regarding the design of the facilities:</p> <ul style="list-style-type: none"> <li>i. A description of the facilities to be constructed;</li> <li>ii. The proposed location(s) of the facilities, with GPS coordinates and a map to scale;</li> <li>iii. Relevant background information for the area beneath the footprint of the facilities, as deemed adequate by the Professional Engineer responsible for the design, including: <ul style="list-style-type: none"> <li>a. the results and data from geotechnical and geochemical investigations; hydrogeological investigations; and programs to characterize soil, rock, Groundwater, ground ice, and ground temperature conditions to the depth expected to be affected by the facilities; and</li> <li>b. any other relevant information.</li> </ul> </li> <li>iv. A design alternatives analysis;</li> <li>v. Design specifications and performance parameters;</li> <li>vi. Stability analyses;</li> <li>vii. A description of how the design has been optimized for Closure and Reclamation;</li> <li>viii. A description of how climate change projections and considerations have been incorporated into the design;</li> <li>ix. A description of any instrumentation that will be installed as part of the facilities, including locations and rationale; and</li> <li>x. A description of any operations and maintenance requirements associated with the design of the facilities.</li> </ul>
	<p>b) Information regarding the Construction of the facilities:</p> <ul style="list-style-type: none"> <li>i. A Construction schedule, including sequencing information;</li> <li>ii. A description of the materials required for Construction, including, but not limited to: <ul style="list-style-type: none"> <li>a. sources;</li> <li>b. quantities;</li> <li>c. physical characteristics; and</li> <li>d. geochemical characteristics.</li> </ul> </li> <li>iii. A description of any potential effects on the Receiving Environment associated with Construction of the facilities; and</li> <li>iv. A description of any mitigation measures that will be undertaken to minimize the potential impacts identified above.</li> </ul>
	<p>c) Information regarding monitoring during Construction and operation, including:</p> <ul style="list-style-type: none"> <li>i. A description of any monitoring that will be conducted to detect potential impacts to the Receiving Environment and evaluate the effectiveness of the mitigation measures described above, including, but not limited to: <ul style="list-style-type: none"> <li>a. locations;</li> <li>b. parameters;</li> <li>c. frequencies; and</li> <li>d. rationale.</li> </ul> </li> </ul>

	<b>Condition</b>
	ii. Linkages to other monitoring programs required in this Licence.
	d) Information regarding responses to monitoring results during Construction, including: <ul style="list-style-type: none"> <li>i. Definitions, with rationale, for Action Levels applicable to the performance of the mitigation measures; and</li> <li>ii. For each Action Level, a description of how exceedances of the Action Level will be assessed and, generally, which types of actions may be taken by the Licensee if the Action Level is exceeded.</li> </ul>
	e) A <b>Quality Control Plan</b> stamped by a Professional Engineer, a component of which includes a plan for a Professional Engineer to supervise and field check Construction activities.

## Schedule 4: Conditions Applying to Waste and Water Management

	Condition
1.	The <b>Waste Management Plan</b> , referred to in Part F, Condition 3 of this Licence shall include, but not be limited to, the following information:
	<p>a) Information regarding Water, Waste, and Wastewater management, including:</p> <ul style="list-style-type: none"> <li>i. A summary, of all the Water and Wastewater streams and management system(s);</li> <li>ii. Maps and/or diagrams of all the Water and Wastewater streams, management systems, and monitoring locations, from Water sources through to the Receiving Environment and, where applicable, Receiving Water;</li> <li>iii. A description of the processes and facilities intended for the purposes of obtaining Water from the Water source(s) for use at the Project;</li> <li>iv. A description of the processes and facilities for the collection, storage and management of surface Runoff generated on site;</li> <li>v. A description of the processes and facilities for the collection, storage and management of any Wastewater resulting from the Project, including a description of procedures that will be employed to minimize the quantity of Wastewater;</li> <li>vi. A description of the processes and facilities for the treatment and Discharge of Effluent to the Receiving Water, including a description of procedures that will be employed to minimize the quantity of Effluent discharged to the Receiving Water; and</li> <li>vii. Any other information required to describe how Water and Wastewater will be managed such that the objectives listed in Part F, Condition 1 will be met.</li> </ul>
	<p>b) Information regarding monitoring, including:</p> <ul style="list-style-type: none"> <li>i. Details of the monitoring, including rationale, that will be undertaken for each component of the Water and Wastewater management systems, including: <ul style="list-style-type: none"> <li>a. monitoring locations, parameters, frequencies and duration, methods, and types of instrumentation; and</li> <li>b. predicted performance values for monitoring parameters based on expected facility design.</li> </ul> </li> <li>ii. Linkages to other monitoring programs required under this Licence; and</li> <li>iii. Any other information about monitoring that will be performed to meet the objectives listed in Part F, Condition 1.</li> </ul>
	<p>c) Information regarding responses to monitoring results, including:</p> <ul style="list-style-type: none"> <li>i. A description of how the Licensee will link the results of monitoring to those corrective actions necessary to ensure that the objectives listed in Part F, Condition 1 are met. This description shall include: <ul style="list-style-type: none"> <li>a. Definitions, with rationale, for Action Levels applicable to the performance of the water management system; and</li> </ul> </li> </ul>

	<p>b. For each Action Level, a description of how exceedances of the Action Level will be assessed and, generally, which types of actions may be taken by the Licensee if the Action Level is exceeded.</p>
	<p>d) Information regarding contingency planning, including:</p> <ul style="list-style-type: none"><li>i. A description of reasonably foreseeable scenarios; and</li><li>ii. For each scenario identified in (e)(i) above:<ul style="list-style-type: none"><li>a. A description of response action options; and</li><li>b. A risk-based analysis of response action options, identifying preferred options and alternate options.</li></ul></li></ul>

## Annex A: Authorized Potential Water Sources and Maximum Water Use Volumes

Water Source Name and Type	Geographic Coordinates (Center)		Purpose of Water Use	Estimated Volume Available for Use (m <sup>3</sup> )	Maximum Water Use Volume/Rate (units)
	Latitude	Longitude			
Great Bear Lake	65°55'04.8"N	120°49'09.5"W	Work activities, operation of satellite camps at Sawmill Bay, Contact Lake, El Bonanza/ Bonanza Mines	3.1 billion	<299 m <sup>3</sup> /day up to a total 21,000 m <sup>3</sup> / year combined for all these water sources
Camsell River	65°35'29.0"N	118°00'04.0"W	Work activities at Silver Bear Mines and main camp at Terra Mine	840,000 m <sup>3</sup> / day	
Contact Lake	65°58'42.2"N	117°46'45.5"W	Work activities and operation of satellite camp at Contact Lake Mine	790,000	
Silver Lake	66°00'10.9"N	118°04'18.6"W	Work activities and operation of satellite camp at El Bonanza Mine	3,400	
Mile Lake	66°00'18.5"N	118°04'14.6"W	Work activities and operation of satellite camp at El Bonanza Mine	103,000	
Whale Lake	66°00'30.0"N	118°05'05.0"W	Work activities and operation of satellite camp at Bonanza Mine	11,000	
Smallwood Mine	65°34'49.2"N	117°56'36.8"W	Work activities at Smallwood Mine	26,000	
Great Bear Lake	65°55'04.8"N	120°49'09.5"W	Winter road construction	3.1 billion	
Camsell River	65°35'29.0"N	118°00'04.0"W	Winter road construction	840,000 m <sup>3</sup> / day	
Unnamed Lake 1	65°38'04.9"N	118°13'55.7"W	Winter road construction	145,000	
Unnamed Lake 2	65°38'42.9"N	118°13'33.6"W	Winter road construction	45,000	

Signed on behalf of the Sahtú Land and Water Board



Valerie Gordon, Chair



Natalie Lippa, Witness

## Attachments

### Attachment A – Concordance Table of Items Requiring Submission

The table below summarizes the items the Licensee is required to submit as per the Licence conditions. In the event of a discrepancy between this table and the Licence conditions, the Licence conditions shall prevail.

Condition Location	Item	Date
Part B, Condition 21	Engagement Plan	October 18, 2024
Part F, Condition 3	Waste Management Plan	October 18, 2024
Part H, Condition 2	Spill Contingency Plan	October 18, 2024
Part I, Condition 1	Closure and Reclamation Plan	January 18, 2026

## Attachment B – Revision History Table

The table below summarizes revisions made to the Licence since its effective date (as set out on the Cover Page).

Date	Location of Change	Description of Change
[issuance date of updated or amended Licence]	[Part(s) and/or Condition(s) of Licence]	