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Nighthawk Gold Corp.

Water Licence W2021L2-0005

Pursuant to the *Mackenzie Valley Resource Management Act* and the Mackenzie Valley Federal Areas Waters Regulations, the Wek'èezhì Land and Water Board grants this Water Licence to:

Nighthawk Gold Corp.

(Licensee)

of 141 Adelaide Street West, Suite 301, Toronto, Ontario, M5H 3L5

(Mailing Address)

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

Location:	Colomac Mine Site
Water Management Area:	Northwest Territories 01
Purpose:	Mining and Milling
Type:	Type A
Quantity of Water not to be exceeded:	See Part D, Conditions 1 and 2
Effective Date:	XX-XX-XXXX
Expiry Date:	XX-XX, XXXX

[Signature of Chair]
Mason Mantla, Chair
Wek'ezhii Land and Water Board

[Signature of Witness]
Witness

Approved by:

Minister of Environment and Natural Resources

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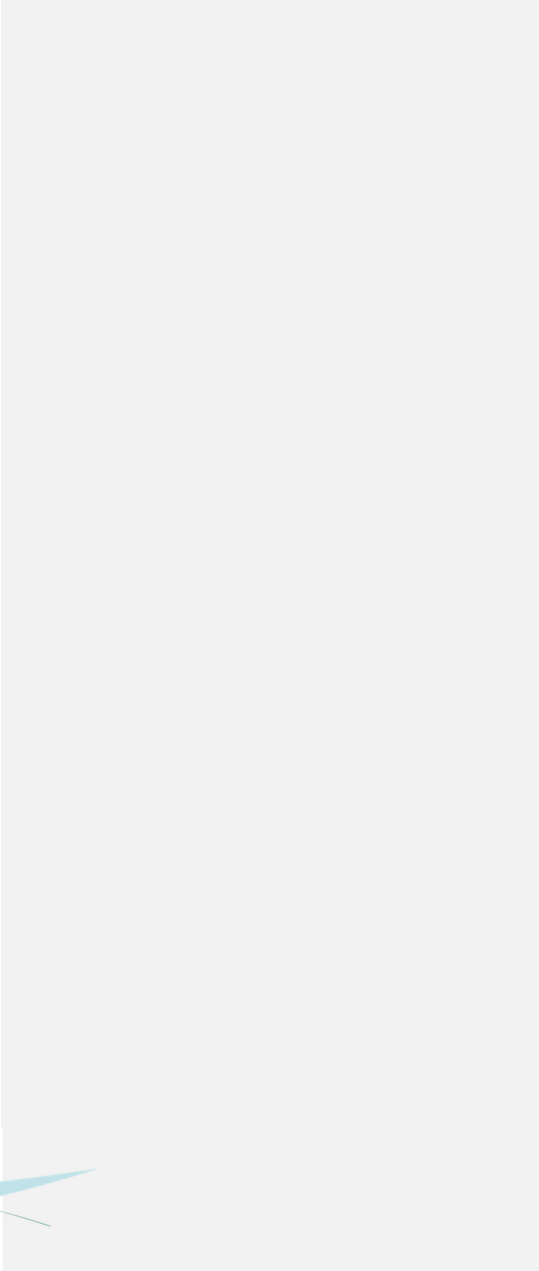


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Part A: Scope and Defined Terms

Scope:

1. This Licence entitles the Licensee to use Water and deposit Waste for mining and milling activities at the Indin Lake Gold Property, NT

SCOPE

The scope of this Licence includes the following:

- i. advanced mineral exploration, including use of water and deposit of waste for a camp ~~occupied by more than 50 persons~~ and use of water for drilling;
- ii. use and storage of explosives for trenching and bulk sampling if required;
- iii. construction, operation, and maintenance of winter roads and spur roads; and
- iv. use and storage of fuel.

Commented [BS1]: Nighthawk has proposed to remove this limit from the Scope.

2. [The scope of this Licence is as described in the Preliminary Screening for W2021L2-0005, dated DATE.](#)

SCOPE – PRELIMINARY
SCREENING

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 deposits of such Waste may enter any Waters. Any change made to the *Mackenzie Valley Resource Management Act* and/or Mackenzie Valley Federal Areas Waters Regulations that affects licence conditions and defined terms will be deemed to have amended this Licence.

LEGISLATION SUBJECT TO
CHANGE

4. Compliance with this Licence does not relieve the Licensee from responsibility for compliance with the requirements of any applicable federal, territorial, T1chq, or municipal legislation.

LEGISLATIVE COMPLIANCE

Defined Terms:¹

Acid Rock Drainage – acidic Water, often with elevated sulphate concentrations, that occurs as a result of oxidation of sulphide minerals contained in rock or other materials that are exposed as a result of natural weathering processes, Construction, or Project activities.

Analyst – an Analyst designated by the Minister under subsection 65(1) of the *Mackenzie Valley Resource Management Act*.

Artesian Aquifer – a Water-bearing stratum which, when encountered during drilling operations, produces a pressurized flow of Groundwater that reaches an elevation above the Water table or above the ground surface.

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 Wek'èezhii Land and Water Board established under Part 3 of the *Mackenzie Valley Resource Management Act*.

Closure Cost Estimate - an estimate of the cost to close and reclaim the Project.

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.

Closure Objectives - 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.

Closure and Reclamation – 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.

Closure and Reclamation Plan (CRP) – a document, developed in accordance with this Licence and the MVLWB/AANDC *Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories*, that clearly describes the Closure and Reclamation for the Project.

Construction – any activities undertaken during any phase of the Project to construct or build any structures, facilities or components of, or associated with, the development of the Project.

Discharge – a direct or indirect deposit or release of any Water or Waste to the Receiving Environment.

Drilling Waste – Waste material specifically produced from drilling activity.

Effluent – a Wastewater Discharge.

Effluent Quality Criteria (EQC) – numerical or narrative limits on the quality or quantity of the Waste deposited to the Receiving Environment.

Engagement Plan – a document, developed in accordance with the MVLWB *Engagement and Consultation Policy* and the *Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits*, that clearly describes how, when, and which engagement activities will occur with an affected party during the life of the Project.

Greywater – all liquid Waste from showers, baths, sinks, kitchens, and domestic washing facilities, but does not include Toilet Waste.

Groundwater – 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.

Hazardous Waste - 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 discharged.

Inspector – an Inspector designated by the Minister under subsection 84(1) of the *Mackenzie Valley Resource Management Act*.

Licensee – the holder of this Licence.

Mackenzie Valley Federal Areas Waters Regulations – the regulations proclaimed pursuant to section 90.3 of the *Mackenzie Valley Resource Management Act*.

Maximum Average Concentration – the concentration of a parameter that cannot be exceeded by the running average of any four consecutive analytical results.

Maximum Grab Concentration – the concentration of a parameter that cannot be exceeded in any one analytical result.

Metal Leaching – the release of metals and metalloids in leachate, Seepage, or drainage from rock or other materials associated with the Project.

Minewater – Groundwater, surface Water, or any Water that is pumped, seeps, or flows out of any underground mine working or open pit.

Minister – the Minister of Northern Affairs.

Ordinary High-Water Mark – 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).

Potentially Acid Generating Rock – any rock that has the potential to produce Acid Rock Drainage.

Professional Engineer – 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 *Engineering and Geoscience Professions Act* and whose professional field of specialization is appropriate to address the components of the Project at hand.

Progressive Reclamation – Closure and Reclamation activities conducted during the operating phase of the Project.

Project – the undertaking described in Part A, Conditions 1 and 2.

Receiving Environment – the natural environment that, directly or indirectly, receives any deposit of Waste from the Project.

RECLAIM – Crown-Indigenous Relations and Northern Affairs Canada's model for estimating Closure and Reclamation costs.

Reclamation Research – 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.

Remediation – 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.

Runoff – the overland flow of Water or Wastewater that occurs when precipitation, meltwater, or other Water is not absorbed by the land.

Seepage – any Water or Waste that drains, passes through, or escapes from any structure designed to contain, withhold, divert, or retain Water or Waste.

Settling Pond – any above or below-grade natural or human-made depression designated for separating solids from Water or Wastewater.

Sewage – all Toilet Wastes and Greywater.

Sewage Disposal Facilities – the area(s) and structures designated to contain and treat Sewage.

Solid Waste Disposal Facilities – the area(s) and structures designated to contain solid Waste.

Spill Contingency Plan (SCP) – a document developed for the Project in accordance with INAC’s *Guidelines for Spill Contingency Planning*.

Sump – a human-made excavation or a natural depression designated for depositing Water and/or Waste.

Surveillance Network Program (SNP) – a monitoring program required by this Licence and detailed in Annex A.

Temporary Closure – a state of care and maintenance, with the intent of resuming Project activities in the near future.

Toilet Wastes – all human excreta and associated products, not including Greywater.

Traditional Knowledge – 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.

Unauthorized Discharge – a Discharge of any Water or Waste not authorized under this Licence

Waste – as defined in section 51 of the *Mackenzie Valley Resource Management Act*:

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:

- a) any substance or water that is deemed, under subsection 2(2) of the *Canada Water Act*, to be waste;
- b) any substance or class of substances prescribed by regulations made under subparagraph 90.3(1)(b)(i);
- 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
- d) in respect of that substance or class of substances by regulations made under subparagraph 90.3(1)(b)(ii); and
- e) water that has been subjected to a treatment, process or change prescribed by regulations made under subparagraph 90.3(1)(b)(iii).

Waste Management Plan (WMP) – a document, developed in accordance with the MVLWB *Guidelines for Developing a Waste Management Plan*, that describes the methods of Waste management for the Project from Waste generation to final disposal.

Waste Rock – all rock materials, except ore, which are produced as a result of mining and milling operations.

Wastewater – 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.

Water – as defined in section 51 of the *Mackenzie Valley Resource Management Act*: any inland waters, whether in a liquid or frozen state, on or below the surface of land.

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 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 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.

Water Use Fee – the fee for use of Water as per the Mackenzie Valley Federal Areas Waters Regulations pursuant to section 90.3 of the *Mackenzie Valley Resource Management Act* and the MVLWB *Water Use Fee Policy*.

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Part B: General Conditions

- | | | |
|------|--|---|
| 1. | The Licensee shall ensure a copy of this Licence is maintained on site at all times. | COPY OF LICENCE |
| 2. | The Licensee shall take every reasonable precaution to protect the environment. | PRECAUTION TO PROTECT ENVIRONMENT |
| 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. | INCORPORATE SCIENTIFIC INFORMATION AND TRADITIONAL KNOWLEDGE |
| 4. | <u>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.</u> | <u>IDENTIFY TRADITIONAL KNOWLEDGE</u> |
| 5. | <u>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.</u> | <u>REFERENCES</u> |
| 6. | <u>The Licensee shall ensure all submissions to the Board:</u>
<u>a) Are in accordance with the MVLWB Document Submission Standards;</u>
<u>b) Include a conformity statement or table which identifies where the requirements of this Licence, or other directives from the Board, are addressed; and</u>
<u>c) Include any additional information requested by the Board.</u> | <u>SUBMISSION FORMAT AND CONFORMITY</u> |
| 7. | <u>The Licensee shall ensure management plans are submitted to the Board in a format consistent with the MVLWB Standard Outline for Management Plans, unless otherwise specified.</u> | <u>MANAGEMENT PLAN FORMAT</u> |
| 8. | <u>The Licensee shall comply with all plans including revisions, approved pursuant to the conditions of this Licence.</u> | <u>COMPLY WITH SUBMISSIONS AND REVISIONS</u> |
| 4.9. | The Licensee shall conduct an annual review of all plans, manuals, 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. | ANNUAL REVIEW |

5-10.	The Licensee may propose changes at any time by submitting revised plans, manuals, or studies 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.	REVISIONS
6-11.	The Licensee shall revise any submission and submit it as per the Board's directive.	REVISE AND SUBMIT
<u>12.</u>	<u>If any date for any submission falls on a weekend or holiday, the Licensee may submit the item on the following business day.</u>	<u>SUBMISSION DATE</u>
7-13.	The Licensee shall comply with the Schedules , which are annexed to and form part of this Licence, and any updates to the Schedules as may be made by the Board.	COMPLY WITH SCHEDULE(S)
8-14.	The Licensee shall comply with the Surveillance Network Program , which is annexed to and forms part of this Licence, and any updates to the Surveillance Network Program as may be made by the Board.	COMPLY WITH SURVEILLANCE NETWORK PROGRAM
9-15.	The Schedules, the Surveillance Network Program, and any compliance dates specified in this Licence may be updated at the discretion of the Board.	UPDATES TO COMPLIANCE DATE(S)
10-16.	The Licensee shall comply with all directives issued by the Board in respect of the implementation of the conditions of this Licence.	COMPLY WITH BOARD DIRECTIVES
11-17.	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.	POST SURVEILLANCE NETWORK PROGRAM SIGN(S)
<u>18.</u>	<u>The Licensee shall install, operate, and maintain meters, devices, or other such methods for measuring the volumes of Water used and Waste discharged to the satisfaction of an Inspector.</u>	<u>MEASURE WATER USE AND WASTE DISCHARGED</u>
12-19.	Beginning XX-XX, XXXX and no later than every March 31 thereafter, the Licensee shall submit an Annual Water Licence Report to the Board and an Inspector. The Report shall be in accordance with the requirements of Schedule 1, Condition 1.	ANNUAL WATER LICENCE REPORT
<u>20.</u>	<u>The Licensee shall comply with the Engagement Plan, once approved.</u>	<u>ENGAGEMENT PLAN</u>
<u>21.</u>	<u>Within 90 days following the effective date of this Licence, the Licensee shall submit to the Board, for approval, a revised Engagement Plan. The Licensee shall not commence Project activities prior to Board approval of the Plan.</u>	<u>ENGAGEMENT PLAN – REVISED</u>

~~13-22.~~ 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.

**NOTIFICATION –
COMMENCEMENT**

~~14-23.~~ 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.

**NOTIFICATION – RE-
COMMENCEMENT**

~~15-24.~~ The Licensee shall immediately provide written notification to the Board and an Inspector of any non-compliance with the conditions of this Licence.

**NOTIFICATION – NON-
COMPLIANCE WITH
CONDITIONS**

~~16-25.~~ 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.

**NOTIFICATION – NON-
COMPLIANCE WITH
DIRECTIVES**

26. The Licensee shall ensure that a copy of any written authorization issued to the Licensee by an Inspector is provided to the Board.

**COPY – WRITTEN
AUTHORIZATION**

27. The Licensee shall submit a current Project schedule to the Board and an Inspector upon request.

**SUBMIT CURRENT PROJECT
SCHEDULE**

Part C: Security

1. The Licensee shall post and maintain a security deposit with the Minister in accordance with Schedule 2. The Licensee shall not commence Project activities until the security deposit has been accepted by the Minister.

POST SECURITY DEPOSIT

2. Upon request of the Board, the Licensee shall submit an updated Closure Cost Estimate using the current version of RECLAIM or another method acceptable to the Board.

**UPDATE CLOSURE COST
ESTIMATE**

3. The amount of the security deposit required by Part C, Condition 1 may be adjusted by the Board:
a) Based on an updated Closure Cost Estimate as per Part C, Condition 2; or
b) Based on such other information as may become available to the Board.

**ADJUSTED SECURITY
AMOUNT**

4. If the amount of the security deposit is adjusted by the Board as per Part C, Condition 3, the Licensee shall post the adjusted amount with the Minister within the timeframe set by the Board. The Licensee shall not commence any new activities associated with a security adjustment until the additional security deposit has been accepted by the Minister.

POST ADJUSTED SECURITY AMOUNT

5. Unless otherwise approved by the Board, the Licensee may not submit security adjustment requests except with any of the following submissions:

SECURITY ADJUSTMENT REQUESTS

- a) Closure and Reclamation Plans;
- ~~a)~~ b) Closure and Reclamation Completion Reports; or
- c) Performance Assessment Reports.

Part D: Water Use

1. The Licensee may only withdraw up to a combined total of 800 m³ per day of Water for the Project, as defined in this Licence and the project defined in Water Licence W2021L2-0004.

MAXIMUM VOLUME

Commented [BS2]: Nighthawk has proposed the maximum volume of 800 m3 per day. Board staff note that Nighthawk's current federal Water Licence W2018L2-0002 allows for 299 m3 per day.

2. The Licensee may only withdraw water from the Water Sources identified in the approved **Water Use Plan**, as specified in Part D, Condition 3.

WATER SOURCES

Commented [BS3]: Non-standard condition included from W2018L2-0002.

3. A minimum of 60 days prior to the use of Water, the Licensee shall submit a **Water Use Plan** to the Board, for approval. The **Water Use Plan** shall contain the following information:

WATER USE PLAN

Commented [BS4]: Non-standard condition included from W2018L2-0002.

- a. Name and location of the lake(s) to be used as a Water Source;
- b. Anticipated daily withdrawal volumes and duration of use, including a comparison of the total water volume requested for use against the total water volume available;
- c. Any available bathymetric information, including maximum depths;
- d. Any available information on other water uses from the source(s).

Commented [BS5]: Non-standard condition included from W2018L2-0002.

4. Prior to withdrawing Water from the Water Sources identified in the Water Use Plan, the Licensee shall:

WATER USE - NOTIFICATION

Commented [BS6]: Non-standard condition proposed by Nighthawk.

- a) Complete a field confirmation in accordance with the Board's Method for Determining Winter Water Source Capacity for Small-Scale Developments; and
- b) Obtain written authorization from the Inspector.

5. In any single ice-covered season, the Licensee shall not withdraw greater than 10% of the available Water volume of any Watercourse, as calculated using the appropriate maximum expected ice thickness.

MAXIMUM UNDER-ICE WATER WITHDRAWAL VOLUME

4.6. The Licensee shall construct and maintain the Water intake(s) with a screen designed to prevent impingement or entrapment of fish.

WATER INTAKE SCREEN

5-7. Prior to locating a Water intake in a fish-bearing Watercourse, the Licensee shall obtain written authorization for the location from an Inspector.

6-8. Each year, prior to the **XX-XX, XXXX** and in advance of any Water use, the Licensee shall pay the Water Use Fee in accordance with the MVLWB *Water Use Fee Policy*.

Part E: Construction

1. 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.

2. The Licensee shall maintain records of Construction materials for all structures and make them available at the request of the Board or an Inspector.

4-3. At least 90 days prior to the start of Construction, of any facilities related to water use or Waste disposal for the Project, excluding Sumps, that are not part of a Board-approved management plan, the Licensee shall submit a **Construction Plan** in accordance with Schedule 3, Condition 1 to the Board for approval.

4. A minimum of 90 days prior to the commencement of Construction of any Engineered Structures, the Licensee shall submit to the Board, **Design Drawings** 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.

5. 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.

6. 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, excluding Sumps, 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.

**WATER INTAKE LOCATION –
AUTHORIZATION**

WATER USE FEE

**ENGINEERED STRUCTURES –
GENERAL**

CONSTRUCTION RECORDS

CONSTRUCTION PLAN

DESIGN DRAWINGS

**NOTIFICATION –
CONSTRUCTION –
ENGINEERED STRUCTURES**

**NOTIFICATION –
CONSTRUCTION**

Commented [BS7]: Non-standard condition included from W2018L2-0002

2-7. 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 **Construction Plan**.

**CONSTRUCT AS DESIGNED –
STRUCTURE(S)**

3-8. The Licensee shall ensure that all Engineered Structures are constructed in accordance with the **Construction Plan**.

**CONSTRUCT AS DESIGNED –
ENGINEERED STRUCTURE(S)**

4-9. Within **90 days** of the completion of the Construction of each Engineered Structure, the Licensee shall submit to the Board, an **As-Built Report** stamped and signed by a Professional Engineer, which shall include, but not be limited to, the following information:

**AS-BUILT REPORT –
ENGINEERED STRUCTURE(S)**

- 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 **Construction Plans** and/or **Design Drawings**; and
- c) any data used to support these decisions.

Part F: Waste and Water Management

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.

**OBJECTIVE – WASTE AND
WATER MANAGEMENT**

2. The Licensee shall minimize erosion by implementing suitable erosion control measures that shall be located and maintained to the satisfaction of an Inspector.

EROSION CONTROL

3. The Licensee shall, not less than sixty (60) days prior to any use of water or deposit of Waste for mining undertakings, submit to the Board for approval a water balance for any basins or drainage water bodies which will or could receive Waste discharges.

WATER BALANCE

Commented [BS8]: Non-standard condition included from W2018L2-0002

Management and Monitoring Plans

4-3. The Licensee shall comply with the **Waste Management Plan**, once approved.

WASTE MANAGEMENT PLAN

4. Within **90 days** following the effective date of this Licence, the Licensee shall submit to the Board, for approval, a revised **Waste Management Plan**. The Licensee shall not commence activities described in the Plan prior to Board approval of the Plan.

**WASTE MANAGEMENT PLAN
– REVISED**

Discharge and Disposal Locations and Rates

~~2.5.~~ The Licensee shall deposit all Waste as described in the approved **Waste Management Plan**.

WASTE MANAGEMENT PLAN

~~6.~~ The Licensee shall not discharge Waste, including Wastewater, to any Watercourse, or to the ground surface within 100 metres of the Ordinary High-Water Mark of any Watercourse.

**DISCHARGE LOCATION –
ORDINARY HIGH-WATER
MARK**

Other

~~7.~~ If an Artesian Aquifer is encountered and producing Water at the ground surface, the Licensee shall:

REPORT ARTESIAN AQUIFER

- a) Within 48 hours, notify the Board and an Inspector, in writing, including the flow rate in cubic metres;
- b) Deposit Artesian Aquifer Water to a snow-bermed or self-contained area, unless otherwise authorized by an Inspector;
- c) Collect a sample of no less than ten litres of Artesian Aquifer Water, provide five litres of the sample to an Inspector for analysis, analyze the remaining sample as set out for sub-section 5-6 from Water Licence W2021L-0004, and provide the analytical results to the Board and an Inspector;
- d) Seal the borehole to permanently prevent any further outflow of water and to the satisfaction of an Inspector; and
- e) Within 24 hours following cessation of the flow of Artesian Aquifer Water, submit a detailed report of the event to the Board and an Inspector, including the total amount of Water in cubic metres that has been released, and the total amount of Water in cubic metres stored in the snow-bermed, or otherwise approved, storage area.

Part G: Spill Contingency Planning

~~1.~~ The Licensee shall ensure that Unauthorized Discharges associated with the Project do not enter any Waters.

**OBJECTIVE – PREVENT WASTE
INTO WATER**

~~1.2.~~ The Licensee shall comply with the **Spill Contingency Plan**, once approved.

SPILL CONTINGENCY PLAN

~~2.3.~~ Within 90 days of XX-XX, XXXX, the Licensee shall submit to the Board, for approval, a revised **Spill Contingency Plan**. The Licensee shall not commence Project activities prior to Board approval of the Plan.

**SPILL CONTINGENCY PLAN –
REVISED**

~~3.4.~~ If a spill or an Unauthorized Discharge occurs or is foreseeable, the Licensee shall:

REPORT SPILLS

- a) Implement the approved Spill Contingency Plan referred to in Part G, Condition 2;

- b) Report it immediately using the NU-NT Spill Report Form by one of the following methods:
- Telephone: (867) 920-8130
 - Fax: (867) 873-6924
 - E-mail: spills@gov.nt.ca
 - Online: Spill Reporting and Tracking Database
- c) Notify the Board and an Inspector immediately; and
- 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

5. The Licensee shall ensure that spill prevention infrastructure and spill response equipment is in place prior to commencement of the Project.

**SPILL PREVENTION AND
RESPONSE EQUIPMENT**

Commented [BS9]: Standard condition proposed by Nighthawk.

4.6. The Licensee shall restore all areas affected by spills and Unauthorized Discharges to the satisfaction of an Inspector.

CLEAN UP SPILLS

7. 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.

**MATERIAL STORAGE –
ORDINARY HIGH-WATER
MARK**

Part H: Closure and Reclamation

1. The Licensee shall submit to the Board, for approval, a **Closure and Reclamation Plan**, as directed by the Board. The Plan shall be in accordance with the requirements of Schedule 4, Condition 1.

**CLOSURE AND RECLAMATION
PLAN**

2. Every **three years** following the previous approval, or as directed by the Board, the Licensee shall submit to the Board, for approval, a revised **Closure and Reclamation Plan**.

**CLOSURE AND RECLAMATION
PLAN – REVISED**

3. Three years prior to the expiry date of this Licence, or a minimum of two years prior to the end of operations, whichever occurs first, the Licensee shall submit to the Board, for approval, a final **Closure and Reclamation Plan**.

**CLOSURE AND RECLAMATION
PLAN – FINAL**

4. The Licensee shall endeavor to carry out approved Progressive Reclamation as soon as is reasonably practicable.

PROGRESSIVE RECLAMATION

5. The Licensee shall not conduct Progressive Reclamation except as approved by the Board.

**PROGRESSIVE RECLAMATION
– CARRY OUT AS APPROVED**

6. Beginning XX-XX, XXXX 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.

**PROGRESSIVE RECLAMATION
– NOTIFICATION**

7. Within 90 days of completing Closure and Reclamation of any specific component of the Project, the Licensee shall submit to the Board a **Closure and Reclamation Completion Report**. The Report shall be in accordance with the MVLWB/AANDC *Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories*.

**CLOSURE AND RECLAMATION
COMPLETION REPORT**

Signed on behalf of the Wek'èezhii Land and Water Board

Mason Mantla, Chair

Witness

Schedule 1: Annual Water Licence Report

1. The **Annual Water Licence Report** referred to in Part B, Condition 19 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 18 of this Licence;
 - d) A summary of the calibration and status of the meters and devices referred to in Part B, Condition 18 of this Licence;
 - e) A summary of engagement activities conducted in accordance with the approved **Engagement Plan**, referred to in Part B, Condition 20 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 **Waste Management Plan**, referred to in Part F, Condition 3 of this Licence, including:
 - i. A summary of approved updates or changes to the process or facilities required for the management of Waste;
 - ii. Monthly and annual quantities, in cubic metres, of deposits of Waste deposited, by location; and
 - iii. A map depicting the location of the Sumps.
 - j) A summary of the results and any actions taken as a result of the inspections conducted to fulfill Part F of this Licence.
 - k) A summary of activities conducted in accordance with the approved **Spill Contingency Plan**, referred to in Part G, Condition 2 of this Licence, including:
 - i. A list and description for all Unauthorized Discharges, 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 G, Condition 4 of this Licence; and
 - ii. An outline of any spill training carried out.
 - l) A summary of activities conducted in accordance with the **Closure and Reclamation Plan**, referred to in Part H, Condition 1 of this Licence, including:
 - i. Details of any Progressive Reclamation undertaken;
 - ii. A discussion on whether planning and implementation remains on schedule, and a summary of any new scheduling setbacks;
 - iii. A summary of Reclamation Research completed;
 - iv. A summary of engagement conducted regarding Closure and Reclamation; and
 - v. A list of any factors that would increase or decrease the Closure Cost Estimate the next time the Estimate is updated; and
 - m) Tabular summaries of all data and information generated under the SNP annexed to 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 31** of the year being reported.

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Schedule 2: Conditions Applying to Security Deposits

1. Prior to the use of water for mineral exploration undertakings or the disposal of Waste, the Licensee shall have posted and shall maintain a security deposit in the amount of \$XXX,XXX pursuant to Section 35(1) of the Act and Part C of the Licence

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Schedule 4: Conditions Applying to Construction

1. A **Structure Description and Construction Plan** and/or a **Design and Construction Plan** referred to in Part E, Condition 4 and Part E, Condition 5 shall include, but not be limited to, the following information:
 - i) A description of the facilities to be constructed;
 - ii) The proposed location for the structures;
 - iii) Any potential impacts to the Receiving Environment;
 - iv) A description of any monitoring including, but not limited to, sampling locations, parameters measures, and frequencies of sampling to be carried out to determine impacts to the Receiving Environment;
 - v) A detailed description of any measures used to prevent or mitigate impacts to the Receiving Environment;
 - vi) Schedule of construction; and
 - vii) Drawing of Engineered Structures stamped by a Professional Engineer.

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Schedule 3: Conditions Applying to Closure and Reclamation

1. The **Closure and Reclamation Plan** referred to in Part H, Condition 1 of this Licence shall include, but not be limited to the following information:
 - a) A plain language summary of the Plan;
 - b) A description of the overall goals for Closure and Reclamation of the Project, including expected future land use;
 - c) A description of the Closure and Reclamation planning team;
 - d) A description of engagement related to Closure and Reclamation planning, including a summary of completed and planned engagement, and links to the **Engagement Plan** referred to in Part B, Condition 20 for the Project;
 - e) A list of any other regulatory authorizations required for Closure and Reclamation of the Project;
 - f) A description of the pre-existing and current Project environment, including, but not limited to:
 - i. climatic conditions;
 - ii. physical conditions;
 - iii. chemical conditions;
 - iv. biological conditions;
 - v. any physical or chemical assessments of soil, water, and permafrost; and
 - vi. traditional uses.
 - g) A description of the Project, including, but not limited to:
 - i. site history;
 - ii. Project development;
 - iii. current status of the Project;
 - iv. maps delineating all disturbed areas, borrow material locations, site facilities, hydrological features, and elevation contours; and
 - v. photographs.
 - h) A description of each Project component, including, but not limited to:
 - i. areas affected by spills or Unauthorized Discharges; and
 - ii. other areas affected by Project activities.
 - i) For the Project site, a description of Closure and Reclamation plans, including, but not limited to:
 - i. Closure Objectives and Criteria;
 - ii. preferred Closure and Reclamation option and method for each Project component identified in condition (h) above;
 - iii. design drawings, signed and stamped by a Professional Engineer, for any Engineered structures;
 - iv. Water management and restoration of natural drainage;
 - v. predicted environmental effects during and after Closure and Reclamation activities;
 - vi. post-closure monitoring, maintenance, and reporting;
 - vii. uncertainties and contingencies;
 - viii. climate change considerations; and
 - ix. Closure and Reclamation Research plans.

- j) A description of any planned Progressive Reclamation;
- k) A plan for Temporary Closure, including, but not limited to the following information:
 - i. Temporary Closure goals and objectives;
 - ii. a description of activities and methods;
 - iii. a description of monitoring, maintenance, and reporting;
 - iv. contingencies; and
 - v. an implementation schedule.
- l) An implementation schedule that includes Progressive Reclamation and final Closure and Reclamation activities; and
- m) A Closure Cost Estimate.

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