

**Parks Canada Water Licence
PC2014L8-0006 – Canadian Zinc Corporation**

Yellow Highlight represents changes associated with the request and administrative updates

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Part A: Scope and Definitions

1. Scope

- a) This Licence entitles the Licensee to use Water and dispose of Waste for construction, operation, closure and reclamation of the Prairie Creek All Season Road Project, within Nahanni National Park Reserve of Canada, connecting Prairie Creek Mine site to the Liard Highway and associated facilities, as described in the Environmental Assessment, the Licensee's Post-Environmental Assessment Information Package and subsequent Preliminary Screening Report dated August 20, 2019.

The scope of this Licence includes the following activities:

- i. Withdrawal of Water;
 - ii. Deposit of Waste;
 - iii. Possession, handling, storage and use of explosives;
 - iv. Use and storage of fuel;
 - v. Construction and operation of camps;
 - vi. Development and operation of Borrow Pits;
 - vii. Construction, operation, and maintenance of an All Season Road, including the Construction, operation, and maintenance of a temporary Winter Road;
 - viii. Construction, operation, and maintenance of Watercourse crossing(s);
 - ix. Construction, operation, and maintenance of Watercourse training;
 - x. Construction, operation, and maintenance of flood control structures;
 - xi. Construction, operation, and maintenance of Watercourse diversion structures; and
 - xii. Progressive Reclamation and associated Closure and Reclamation activities.
- b) This Licence is issued subject to the conditions contained herein with respect to the use of Water and the deposit of Waste of any type in any Water 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 Water. Whenever applicable new Regulations are made or existing Regulations are modified or other applicable legislation imposing more stringent conditions relating to the quantity or type of Waste that may be so deposited or under which any such Waste may be so deposited, this Licence shall be deemed, upon promulgation of such Regulations or legislation, to be automatically amended to conform with such Regulations or legislation.
- c) Compliance with the terms and conditions of this Licence does not relieve the Licensee from responsibility for compliance with the requirements of any applicable federal or territorial legislation.

2. Definitions

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.

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

Adaptive Management – a systematic, rigorous approach for deliberately learning from management actions with the intent to improve management policy or practice, conducted in accordance with the Report of Environmental Assessment Appendix B.

All Season Road – road, intended for use in all seasons, that conforms to the alignment and material configuration as presented in the Design and Construction Plan and Design Drawings.

Borrow –excavated material including clay, silt, sand, gravel and quarry rock, as described in the approved Borrow Pit Management Plan.

Borrow Pit –an excavation made according to the approved Borrow Pit Management Plan in order to produce Borrow.

Closure Cost Estimate – has the same meaning as that in the Mackenzie Valley Land and Water Board, Government of the Northwest Territories, and Indigenous and Northern Affairs Canada's *Guidelines for Closure and Reclamation Cost Estimates for Mines*, or as directed by the Superintendent.

Closure Criteria – has the same meaning as that in the Mackenzie Valley Land and Water Board and Aboriginal Affairs and Northern Development Canada’s *Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories*, or as directed by the Superintendent.

Closure Objectives – has the same meaning as that in the Mackenzie Valley Land and Water Board and Aboriginal Affairs and Northern Development Canada’s *Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories*, or as directed by the Superintendent.

Closure and Reclamation – the permanent dismantlement of a component of the Project with the intent of making the component incapable of its intended use, accompanied by the process and activities that facilitate the return of areas affected by the Project to viable and, self-sustaining ecosystems that are compatible with a healthy environment, human activities, and the surrounding environment.

Concentrate – the product emanating from the processing of ore at the Prairie Creek Mine.

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 – the direct or indirect release of any Waters or Waste to the Receiving Environment.

Ecological restoration - process of assisting the recovery of an ecosystem that has been degraded, which places degraded ecosystems on trajectories of recovery that allow adaptation to local and global changes, and persistence and evolution of their component species.

Effluent – a Wastewater Discharge.

Engineered Structure – any structure or facility associated with the Project and related to Water Use or the deposit of Waste that is designed by a Professional Engineer.

Environmental Assessment (EA) – the totality of the Mackenzie Valley Environmental Impact Review Board’s Public Registry for Environmental Assessment EA1415-01, including the Report of Environmental Assessment.

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

Groundwater – all Water in a zone of saturation beneath the land surface, regardless of its origin.

Independent Technical Review Panel (Panel) – the expert panel established by the Licensee to fulfill Measure 5-1 of the Report of Environmental Assessment.

Invasive Species Management Plan - as per Land Use Permit PC2014F0013.

Licensee – the holder of this Licence.

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

Minister – the Minister of the Environment and Climate Change for the purposes of the Parks Canada Agency.

Non-Typical Winter Road – sections of the Winter Road as documented in the applicable Design and Construction Plan and Design Drawings.

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).

Permafrost – ground (soil or rock) that remains at or below 0°C for at least two consecutive years.

Phase 1 – activities to support the Construction of the All Season Road, including the Construction and Operation of the Winter Road.

Phase 2 – activities to support the Construction of the All Season Road including the Construction and Operation of the Winter Road and All Season Road Construction.

Phase 3 – activities to support the Operation of the All Season Road including transportation of loaded Concentrate, consumable materials and supplies to support mine operations, and road maintenance.

Potentially Acid Generating (PAG) 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 in accordance with the territorial *Engineering and Geoscience Professions Act*, and whose professional field of specialization is appropriate to address the components of the Project at hand.

Professional Geoscientist – 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 in accordance with 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 period of the Project.

Project – the undertaking described in Part A, condition 1.

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

RECLAIM – the Government of the Northwest Territories' model for estimating Closure and Reclamation costs.

Reclamation Research – has the same meaning as that in the MVLWB/AANDC *Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories* or as directed by the Superintendent.

Report of Environmental Assessment – the Mackenzie Valley Environmental Impact Review Board's Report of Environmental Assessment and Reasons for Decision for the EA1415-01, dated September 12, 2017, and adopted by the Minister of Crown-Indigenous Relations on October 9, 2018.

Runoff – the overland flow of Water that occurs when excess precipitation, meltwater, or other Water is not absorbed by the land, and instead drains downslope towards a Watercourse.

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

Sewage – all Toilet Wastes and Greywater.

Sewage Treatment and Disposal Facilities – the area and structures designated to contain and treat Sewage as described in the approved Waste Management Plan.

Superintendent – means the Superintendent of Nahanni National Park Reserve of Canada and includes any person appointed under the *Canada National Parks Act* who is authorized by the Superintendent to act on the Superintendent's behalf.

Surveillance Network Program (SNP) – a monitoring program established to define environmental sampling, analysis, and reporting requirements, as detailed in Annex A of this Licence.

Temporary Closure – a state of care and maintenance, initiated by the Permittee, with the intent of resuming 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.

Typical Winter Road – portions of the road that are constructed using typical winter road methods characterized by packed snow and ice and no soil disturbance, as documented in the applicable Design and Construction Plan and Design Drawings, or Structure Description and Construction Plan.

Unauthorized Discharge – a release or Discharge of any Waters or Waste not authorized under this Licence.

Waste – any substance defined as Waste by section 51 of the *Mackenzie Valley Resource Management Act*.

Waste Rock- extracted rock material that is not utilized in construction or reclamation.

Wastewater – any Water that is generated by Project activities or originates on-site, contains Waste, and includes, but is not limited to, Runoff, Seepage, Sewage, and Effluent.

Water(s) – any Water as per section 51 of the *Mackenzie Valley Resource Management Act*.

Watercourse – a natural watercourse, body of Water or Water supply, whether usually containing Water or not, and includes Groundwater, springs, swamps, and gulches.

Water Supply Facilities – the area and structures designated to collect, treat, and supply Water for the Project.

Water Use – a use of Waters as per section 51 of the *Mackenzie Valley Resource Management Act*.

Winter Road – including both the Typical and Non-typical Winter Road sections.

Part B: General Conditions

1. The Licensee shall ensure a hard copy of this Licence is maintained on-site at all times.
2. The Licensee shall take every reasonable precaution to protect the 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.
4. In each submission required by this Licence, or any direction from the Superintendent, 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, to fulfill Report of Environmental Assessment Measures 10-1, 15-1, 15-4, and Suggestion 15-4.
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 denoted.
6. The Licensee shall ensure all submissions to the Superintendent:
 - a) are in accordance with the Mackenzie Valley Land and Water Board's Document Submission Standards; and
 - b) Include a conformity statement or table which identifies where the pertinent requirements of this Licence, or any direction from the Superintendent, are addressed.
7. The Licensee shall ensure management plans are submitted to the Superintendent in a format consistent with the Mackenzie Valley Land and Water Board's *Standard Outline for Management Plans*, unless otherwise specified by the Superintendent.
8. The Licensee shall comply with all terms of reference, plans, reports, studies and programs approved as per the conditions of this Licence, including such revisions made as per the conditions of this Licence, and as approved by the Superintendent.
9. The Licensee may propose revisions at any time by submitting revised terms of reference, plans, reports, and programs to the Superintendent for approval. Unless otherwise specified, a minimum of 90 days prior to implementing any proposed updates or changes in the terms of reference, plans, reports, and programs, the Licensee shall submit all revisions to the Superintendent, for approval. Any revision submission shall include a revision history table and a summary of the revisions previously made. The Licensee shall not implement revisions until approved by the Superintendent.
10. The Licensee shall submit revised plans, reports, studies, and programs for Phases 1, 2, and 3 to the Superintendent for approval, unless otherwise directed by the Superintendent. Unless otherwise specified, a minimum of 90 days prior to commencement of each phase and implementing any proposed updates or changes in the plans, reports, studies, and programs, the Licensee shall submit all revisions to the Superintendent for approval. Any revision submission shall include a revision history table and a summary of the revisions previously made. The Licensee shall not commence activities for each phase or implement revisions until approved by the Superintendent.
11. The Licensee shall revise any submission as per the Superintendent's direction and resubmit it for approval.
12. The Licensee shall identify an adaptive management framework in each plan and program submitted for Superintendent approval to fulfill the Report of Environmental Assessment Appendix B.
13. If any date for any submission falls on a weekend or holiday, the Licensee may submit the item on the following business day.
14. The Licensee shall comply with the **Schedules**, which are annexed to and form part of this Licence, and any changes to the Schedules as may be made by the Superintendent.

15. The Licensee shall comply with the **Surveillance Network Program**, which is annexed to and forms part of this Licence, and any changes to the Surveillance Network Program as may be made by the Superintendent.
16. The Schedules, the Surveillance Network Program, and any compliance dates specified in this Licence may be updated at the discretion of the Superintendent.
17. The Licensee shall ensure signs are posted for all active Surveillance Network Program stations within 30 days of establishment. All sign(s) shall be located and maintained to the satisfaction of the Superintendent.
18. The Licensee shall install, operate, and maintain meters, devices, or other such methods used for measuring the volumes of Water used and Waste discharged to the satisfaction of the Superintendent.
19. Beginning March 31, 2020 and no later than every March 31 thereafter, the Licensee shall submit an **Annual Report** to the Superintendent. The Annual Report shall be in accordance with Schedule 1, condition 1.
20. The Licensee shall comply with the **Engagement Plan**, once approved. The Plan shall fulfill Measure 15-1, 15-4 and Suggestion 15-4 of the Report of Environmental Assessment, and be in accordance with the Mackenzie Valley Land and Water Board's *Engagement and Consultation Policy* and the *Engagement Guidelines for Applicants and Holders of Water Licences and Land Use Permits*, and/or to the satisfaction of the Superintendent.
21. A minimum of 90 days prior to the commencement of Phase 1 activities, the Licensee shall submit to the Superintendent, for approval, a revised Engagement Plan. The Licensee shall not commence Phase 1 activities prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.
22. A minimum of ten days prior to commencement of the Project including Phases 1, 2, and 3, the Licensee shall provide written notification to the Superintendent. Notification shall include the commencement date, and the name and contact information of the Licensee's Field Supervisor. Any updates shall be provided the Superintendent in writing as changes occur.
23. A minimum of ten days prior to the commencement of the Project, the Licensee's Field Supervisor shall contact the Superintendent.
24. A minimum of ten days prior to returning to the worksite following a seasonal shut down period, the Licensee's Field Supervisor shall contact the Superintendent.
25. The Licensee shall immediately provide written notification to the Superintendent of any non-compliance with the conditions of this Licence or any direction from the Superintendent pursuant to the conditions of this Licence.
26. The Licensee shall submit a revised Project schedule to the Superintendent upon request.
27. All information submitted to the Superintendent for or under this Licence must be submitted in a form and in detail acceptable to the Superintendent.
28. The Licensee shall ensure that all persons working under the authority of this Water Licence are aware of, and will adhere to the terms and conditions as stated in this Water Licence.
29. The Licensee shall ensure that all persons working under the authority of this Water Licence keep copies of the relevant operational plans, to carry out their respective functions, on hand at all times.

Part C: Reclamation Security Requirements

1. The Licensee shall post and maintain a security deposit with the Minister in accordance with Schedule 2, condition 1.
2. Upon request of the Superintendent, the Licensee shall submit an updated Closure Cost Estimate utilizing the current version of RECLAIM or another method acceptable to the Superintendent.
3. The amount of the security deposit required by Part C, condition 1 may be adjusted by the Superintendent:
 - a) Based on updated Closure Cost Estimates referred to in Part C, condition 2; or
 - b) Based on such other information as may become available to the Superintendent.
4. If the amount of the security deposit is adjusted by the Superintendent as per Part C, condition 3, the Licensee shall post the adjusted amount with the Minister within 90 days of the Superintendent giving notice of the adjusted amount, or as otherwise directed by the Superintendent.

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Part D: Water Use

1. Water use fees shall be paid annually as per the *Parks Canada Agency Act* and *Canada National Parks Act*. This fee must be paid annually hereafter for the duration of the Licence on or before its anniversary date.
2. The Licensee shall only obtain Water for the Project from the following sources:

ID	Water Source Name	Location and Coordinates	Type of Water course	Purpose of Water Use	Maximum Quantity (m ³ per year)	Maximum Quantity in Any Single Ice-Covered Season (m ³)
a)	Mosquito Lake	KM 63.5 446703 E, 6825712 N	Lake	Winter road	44,448	33,528
b)	Lake 70	KM 70.5 448577 E, 6819566 N	Lake	Winter road	64,995	52,475
c)	Sundog Creek	KM 23.1 415639 E, 6829210 N	River	Camp; Culvert Installation, Dust Suppression	<10% instantaneous flow	NA
d)	Sundog Creek II	KM 29.0 420657 E, 6826795 N	River	Camp; Culvert Installation, Dust Suppression	<10% instantaneous flow	NA
e)	Sundog Creek III	KM 37.5 427063 E, 6829318 N	River	Camp; Culvert Installation, Dust Suppression	<10% instantaneous flow	NA
f)	Polje Creek	KM 53.2 440692 E, 6830793 N	River	Camp; Culvert Installation, Dust Suppression	<10% instantaneous flow	NA
g)	Fishtrap Creek	KM 94.6 465061 E, 6813845 N	River	Camp; Culvert Installation, Dust Suppression	<10% instantaneous flow	NA
h)	Tetcela River	KM 89.4 461383 E, 6815676 N	River	Camp; Culvert Installation, Dust Suppression	<10% instantaneous flow	NA
i)	Cat camp pit	KM 39.4 428523 E, 6830490 N	Ground water	Winter road	5750	NA

3. The Licensee may only withdraw a combined total of 299 m³/day of Water from all Water sources listed in Part D, condition 2.
4. Prior to locating a Water intake in a fish-bearing Watercourse, the Licensee shall obtain written authorization for the location from the Superintendent.
5. Prior to obtaining Water from a licensed Water source identified in Part D, condition 2, 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 the Superintendent.
6. The Licensee shall withdraw Water using the Water Supply Facilities, unless otherwise authorized in writing by the Superintendent.
7. Water Supply Facilities shall use a screen size in accordance with DFO Guidelines.

Part E: Construction

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.
2. 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.
3. The Licensee shall ensure that all material used in Construction of the Project meets the geochemical criteria specified in the approved Geochemical Verification Program referred to in Part F, condition 11.
4. The Licensee shall only use material that is clean, non-PAG and free of contaminants and is from a source within an approved area as per the approved Borrow Pit Management Plan, or that has been approved in writing by the Superintendent.
5. The Licensee shall maintain Construction records and geochemical records of Construction materials for all structures and make them available at the request of the Superintendent.
6. The Licensee shall establish and fund an **Independent Technical Review Panel** in accordance with Measure 5-1 of the Report of Environmental Assessment.
7. A minimum of 90 days prior to commencement of the Panel's activities, the Licensee shall submit the Panel's **Terms of Reference** to the Superintendent for approval, to fulfill Report of Environmental Assessment Measure 5-1. The Licensee shall submit a revised Terms of Reference 90 days prior to implementation of any changes to the Terms of Reference.
8. The Licensee shall comply with the Panel's Terms of Reference, once approved.
9. Unless otherwise authorized by the Superintendent, 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 Superintendent for approval, a **Structure Description and Construction Plan**, in accordance with Schedule 3, condition 1. The Licensee shall not commence Construction prior to Superintendent approval of the Plan.
10. A minimum of 90 days prior to the commencement of Construction of any Engineered Structures not reviewed and by accepted the Panel, the Licensee shall submit to the Superintendent for approval the following:
 - a) A **Design and Construction Plan** in accordance with Schedule 3, condition 2.
 - b) **Design Drawings** stamped and signed by a Professional Engineer. A minimum of 90 days prior to implementing any proposed changes, the Licensee shall submit revised Design Drawings to the Superintendent for approval.
11. A minimum of 90 days prior to the commencement of Construction of any structure reviewed and accepted by the Panel, the Licensee shall submit to the Superintendent for approval the following:
 - a) A **Final Report** from the Panel that indicates their review and acceptance of the Engineered Structures, its **Design and Construction Plan**, and **Design Drawings** or any other structures and its Structure Description and Construction Plan;
 - b) A **Design and Construction Plan**, in accordance with Schedule 3, condition 2, or **Structure Description and Construction Plan** in accordance with Schedule 3, condition 1, reviewed and accepted by the Panel; and
 - c) A **Design Drawing** of the Engineered Structure stamped and signed by a Professional Engineer, and reviewed and accepted by the Panel.
12. The Licensee may propose revisions at any time to the Engineered Structures reviewed and accepted by the Panel by submitting to the Superintendent for approval, the following:

- a) A revised Final Report from the Panel that indicates their review and acceptance of the revised Design and Construction Plan and Design Drawings;
- b) A revised Design and Construction Plan reviewed and accepted by the Panel; and
- c) A revised Design Drawing stamped and signed by a Professional Engineer and reviewed and accepted by the Panel.

Any revision submission shall include a revision history table and a summary of the revisions made. A minimum of 45 days prior to implementing any proposed changes, the Licensee shall submit the above documents to the Superintendent.

13. A minimum of ten days prior to the commencement of Construction of any Engineered Structure(s), the Licensee shall provide written notification to the Superintendent. Notification shall include the Construction commencement date, and the name and contact information for the Construction Field Supervisor. Any updates shall be provided to the Superintendent in writing as changes occur.
14. The Licensee shall ensure that all structures, excluding Engineered Structures, are constructed in accordance with the approved Structure Description and Construction Plan(s).
15. The Licensee shall ensure that all Engineered Structures are constructed in accordance with the approved Design Drawings and approved Design and Construction Plans.
16. Within 90 days of the completion of the Construction of each Engineered Structure, and annually for the road (winter and ASR) as construction progresses, the Licensee shall submit to the Superintendent, an **As-Built Report** 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, including the road centerline, crossing points, and clearing limits;
 - b) Documentation, with rationale, of field decisions that deviate from the Design and Construction Plans and Design Drawings, including a statement from the engineer of record on achievement of the design intent; 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.
2. The Licensee shall dispose of all Waste as described in the approved Waste Management Plan.

Management and Monitoring Submissions

3. The Licensee shall comply with the **Waste Management Plan**, once approved. The Plan shall fulfill Part F, condition 1 and be in accordance with the requirements of Schedule 4, condition 8.
4. A minimum of 90 days prior to the commencement of Phase 1 activities, the Licensee shall submit to the Superintendent, for approval, a revised Waste Management Plan. The Licensee shall not commence any Phase 1 activities prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.
5. The Licensee shall comply with the **Sediment and Erosion Control Plan**, once approved. The Plan shall fulfill Part F, condition 1 and be in accordance with the requirements of Schedule 4, condition 1.
6. A minimum of 90 days prior to the commencement of Phase 1 activities, the Licensee shall submit to the Superintendent, for approval, a revised Sediment and Erosion Control Plan. The Licensee shall not commence any Phase 1 activities prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.
7. The Licensee shall comply with the **Permafrost Management and Monitoring Plan**, once approved. The Plan shall fulfill Part F, condition 1 and be in accordance with the requirements of Schedule 4, condition 2.
8. A minimum of 90 days prior to the commencement of Phase 1 activities, the Licensee shall submit to the Superintendent, for approval, a revised Permafrost Management and Monitoring Plan. The Licensee shall not commence any Phase 1 activities prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.
9. The Licensee shall comply with the **Geochemical Verification Program**, once approved. The Plan shall be in accordance with the requirements of Schedule 4, condition 3.
10. A minimum of 90 days prior to the commencement of Phase 1 activities, the Licensee shall submit to the Superintendent, for approval, a revised Geochemical Verification Program. The Licensee shall not commence any Phase 1 activities prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.
11. The Licensee shall comply with the **Borrow Pit Management Plan**, once approved. The Plan shall be in accordance with the requirements of Schedule 4, condition 4. The Licensee shall not develop any Borrow Pit until it is approved in the Borrow Pit Management Plan.
12. A minimum of 90 days prior to the development of any Borrow Pit, the Licensee shall submit to the Superintendent, for approval, a revised Borrow Pit Management Plan. The Licensee shall not develop any Borrow Pit prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.
13. A minimum of 90 days prior to development of any Borrow Pit, the Licensee shall submit to the Superintendent, for approval, a **Borrow Source Optimization Report** with the goal to reduce impacts of borrow sources required for construction and operation that includes, but not limited to, an assessment of the advantages and disadvantages for utilizing each borrow site that considers:
 - a) Land disturbance
 - b) Proximity to and potential impacts to water quality, water drainage patterns
 - c) Proximity to and potential impacts to fish and fish habitat
 - d) Proximity to and potential impacts to terrestrial wildlife and habitat

- e) Construction methods
 - f) ASR operation
 - g) Quantity and quality of the borrow material
 - h) Borrow site reclamation
 - i) Monitoring of the borrow site
14. The Licensee shall comply with the **Water Monitoring Plan**, once approved. The Plan shall be in accordance with the requirements of Schedule 4, condition 5.
 15. A minimum of 90 days prior to the commencement of Phase 1 activities, the Licensee shall submit to the Superintendent, for approval, a Water Monitoring Plan. The Licensee shall not commence Phase 1 activities prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.
 16. The Licensee shall comply with the **Explosives Management Plan**, once approved. The Plan shall be in accordance with the requirements of Schedule 4, condition 6. The Licensee shall not possess, store or use explosives until the Superintendent has approved the Explosives Management Plan.
 17. A minimum of 90 days prior to the commencement of Phase 1 activities, the Licenses shall submit to the Superintendent, for approval, a revised Explosives Management Plan. The Licenses shall not commence Phase 1 activities prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.
 18. The Licensee shall comply with the **Fish and Fish Habitat Protection Plan**, once approved. The Plan shall be in accordance with the requirements of Schedule 4, condition 7.
 19. A minimum of 90 days prior to the commencement of Phase 2, the Licensee shall submit to the Superintendent for approval a Fish and Fish Habitat Protection Plan. The Licensee shall not commence Phase 1 activities prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.

Operations of Structures and Facilities

20. 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.
21. The Licensee shall operate and maintain the Sewage Treatment and Disposal Facilities to prevent structural failure and to the satisfaction of the Superintendent.

Inspections of Structures and Facilities

22. The Licensee shall conduct daily erosion inspections of Discharge locations during periods of Discharge, or more frequently as directed by the Superintendent. Records of these inspections shall be made available to the Superintendent upon request.
23. The Licensee shall ensure that geotechnical and geochemical inspections of all Engineered Structures are conducted annually, during the summer months, by a Professional Engineer and Professional Geoscientist, and following any extreme events (such as earthquakes, flooding, cracks, sinkhole formation, etc.). The Licensee shall:
 - a) A minimum of two weeks prior to the annual inspection, provide written notification to an Inspector; and
 - b) Within 90 days of completing the inspection, submit the Professional Engineer's and Professional Geoscientist's full **Geotechnical and Geochemical Inspection Report** to the Superintendent. The Report shall include:
 - i. A covering letter from the Licensee outlining an implementation plan to respond to any recommendations made by the Professional Engineer and Professional Geoscientist, including rationale for any decisions that deviate from the Professional Engineer's and Professional Geoscientist's recommendations; and
 - ii. A summary of any actions taken by the Licensee to address the recommendations made following the previous year's inspection.

24. The Licensee shall ensure that in-water Construction activities meet the following criteria:
- a) If background TSS \leq 250 mg/L, the maximum concentration for Total Suspended Solids shall not exceed 25 mg/L above background concentration TSS in any daily sample, or 5 mg/L above background TSS averaged over any 30-day period;
 - b) if background TSS is $>$ 250 mg/L, TSS shall not exceed 10% of background levels; and
 - c) all TSS samples are to be measured in accordance with the approved Water Monitoring Plan referred to in Part F, Condition 15.

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Part G: Contingency planning

1. The Licensee shall ensure that Unauthorized Discharges associated with the Project do not enter any Waters.
2. The Licensee shall comply with the **Spill Contingency Plan**, once approved. The Plan shall be in accordance with Aboriginal Affairs and Northern Development Canada's *Guidelines for Spill Contingency Planning*, and/or to the satisfaction of the Superintendent.
3. A minimum of 90 days prior to the commencement of Phase 1 activities, the Licensee shall submit to the Superintendent, for approval, a revised Spill Contingency Plan. The Licensee shall not commence Phase 1 activities prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.
4. If, during the period of this Licence, a spill or an Unauthorized Discharge occurs or is foreseeable, the Licensee shall:
 - a) Implement the approved Spill Contingency Plan referred to in Part G, condition 2;
 - b) Immediately report it to the Superintendent by one of the following methods:
 - Telephone: (867) 695-6572
 - E-mail: pc.officierendevoirrpnahanni-nahanninprduyofficer.pc@canada.ca
 - c) Immediately report it 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](#)
 - d) Within 30 days of initially reporting the incident, submit a detailed report, including descriptions of causes, response actions, and any changes to procedures to prevent similar occurrences in the future, to the Superintendent. Any updates to this report shall be provided to the Superintendent in writing as changes occur.
5. The Licensee shall ensure that adequate spill prevention infrastructure and spill response equipment is in place prior to commencement of the Project.
6. The Licensee shall restore all areas affected by spills and Unauthorized Discharges to the satisfaction of the Superintendent.
7. The Licensee shall not establish any fuel storage facilities or refueling stations, or store chemical or deleterious substances within 100 metres of the Ordinary High Water Mark of any Watercourse, unless otherwise authorized in writing by the Superintendent.
8. The Licensee shall comply with the **Emergency Response Plan**, once approved.
9. A minimum of 90 days prior to the commencement of Phase 1 activities, the Licensee shall submit to the Superintendent, for approval, a revised Emergency Response Plan. The Licensee shall not commence Phase 1 activities prior to Superintendent approval. Subsequent revisions shall be in accordance with Part B, condition 10.

Part H: Closure and Reclamation

1. ~~A minimum of 90 days prior to the commencement of Phase 1 activities~~ ~~Within 90 days following the effective date of the license of Phase 1 activities~~, the Licensee shall submit to the Superintendent, for approval, a **Closure and Reclamation Plan**. The Plan shall be in accordance with the requirements of Schedule 5, condition 1.
2. A minimum of 90 days prior to the commencement of Phase 2 activities, or as directed by the Superintendent, the Licensee shall submit to the Superintendent, for approval, a revised Closure and Reclamation Plan. The Plan shall be in accordance with the requirements of Schedule 5, condition 1.
3. Three years prior to the expiration of this Licence, or a minimum of two years prior to the end of operations, whichever occurs first, the Licensee shall submit to the Superintendent, for approval, a **Final Closure and Reclamation Plan** to fulfill Report of Environmental Assessment Suggestion 14-1. The Plan shall be in accordance with the Mackenzie Valley Land and Water Board and Aboriginal Affairs and Northern Development Canada's *Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories*, and/or to the satisfaction of the Superintendent, and the requirements of Schedule 5, condition 1.
4. The Licensee shall endeavor to carry out Progressive Reclamation as soon as is reasonably practicable.
5. The Licensee shall conduct Progressive Reclamation in accordance with the most-recently approved Closure and Reclamation Plan, or as otherwise approved by the Superintendent.
6. A minimum of ten days prior to the commencement of any Progressive Reclamation, the Licensee shall provide written notification to the Superintendent. Notification shall include the name and contact information for the Construction Field Supervisor.
7. Within 90 days of completing Closure and Reclamation of any specific component of the Project, the Licensee shall submit to the Superintendent for approval a **Closure and Reclamation Completion Report**. The Report shall be in accordance with the Mackenzie Valley Land and Water Board and Aboriginal Affairs and Northern Development Canada's *Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories* unless otherwise specified by the Superintendent.
8. Within four months of completing Closure and Reclamation of any specific component of the Project, the Licensee shall submit to the Superintendent for approval, a **Performance Assessment Report**. The Report shall be in accordance with the Mackenzie Valley Land and Water Board and Aboriginal Affairs and Northern Development Canada's *Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories* unless otherwise specified by the Superintendent. The Licensee shall submit subsequent Performance Assessment Reports as directed by the Superintendent.

Signed on behalf of the Minister

Signature, A/Field Unit Superintendent, Southwest
Northwest Territories, Parks Canada

Signature Witness

Alex Lothian, Acting for Jonah Mitchell

Schedule 1

Attached to Water Licence PC2014L8-0006 Canadian Zinc Corporation – All Season Road

Part B: General Conditions

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 15 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 influenced decision making;
 - g) A summary of Construction activities conducted in accordance with Part E of this Licence;
 - h) A summary of repairs and maintenance activities conducted in accordance with this Licence;
 - i) A summary of activities conducted in accordance with the approved Waste Management Plan, required in Part F, condition 4 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 all solid Waste generated and discharged or removed from site, identified by location;
 - iii. Monthly and annual quantities, in cubic metres, of all liquid Waste generated and discharged or removed from site, identified by location;
 - iv. Monthly and annual quantities, in cubic metres, of hazardous Waste generated and removed;
 - v. Monthly and annual quantities, in cubic metres, of Sewage solids removed from the Sewage Disposal Facilities, identified by disposal location; and
 - vi. A map depicting the location of Sewage Disposal Facilities.
 - j) A summary of activities conducted in accordance with the approved Sediment and Erosion Control Plan, required in Part F, condition 6 of this Licence, including:
 - i. A summary of approved updates or changes to the process or facilities required for the management of erosion and sedimentation;
 - ii. A description of any erosion susceptible areas encountered (provide a map and photos);
 - iii. A summary of activities undertaken to prevent or mitigate erosion;
 - iv. A report of the performance of mitigations applied;
 - v. A summary and interpretation of monitoring results, including any Action Level exceedances; and
 - vi. A description of actions taken in response to any Action Level exceedances.
 - k) A summary of activities conducted in accordance with the approved Permafrost Management and Monitoring Plan, required in Part F, condition 8 of this Licence, including:
 - i. A summary and interpretation of any monitoring results, including any Action Level exceedances; and
 - ii. A list of any Action Level exceedances and a description of actions taken in response to any Action Level exceedances.

- l) A summary of activities conducted in accordance with the approved Geochemical Verification Program, required in Part F, condition 10, including:
- i. A summary of approved updates or changes to the processes for characterizing and managing Acid Rock Drainage and Metal Leaching material;
 - ii. A comparison of the annual quantities of each type of Waste Rock generated to the quantities predicted in the approved Geochemical Verification Program;
 - iii. A summary and interpretation of results from the geochemical monitoring performed under the approved Geochemical Verification Program;
 - iv. A summary and interpretation of results from seepage monitoring performed under the approved Geochemical Verification Program, including:
 - a. a site map with Seepage locations;
 - b. comparisons to reference locations;
 - c. an analysis of major trends over the year and since Project inception; and
 - d. a summary of recommendations for future Seepage monitoring and/or management actions.
 - v. A summary and interpretation of Water quality monitoring results for each of the main source areas and how these compare to predicted values;
 - vi. A summary of any exceedances of the Action Levels described in the Geochemical Verification Program; and
 - vii. A description of actions taken in response to any Action Level exceedances under the Geochemical Verification Program.
- m) A summary of activities conducted in accordance with the approved Borrow Pit Management Plan, required in Part F, condition 12, including:
- i. A summary of borrow sources approved through the Borrow Pit Management Plan;
 - ii. A summary and interpretation of any monitoring results including any Action Level exceedances; and
 - iii. A list of any Action Level exceedances and a description of actions taken in response to any Action Level exceedances.
- n) A summary of activities conducted in accordance with the approved Water Monitoring Plan, required in Part F, condition 14 of this Licence, including:
- i. A summary of approved updates or changes to the processes for monitoring Water;
 - ii. A summary and interpretation of any monitoring results; and
 - iii. A list of any Action Level exceedances and a description of actions taken in response to any Action Level exceedances.
- o) A summary of activities conducted in accordance with the approved Explosives Management Plan, required in Part F, condition 16 of this Licence, including:
- i. A summary and interpretation of any monitoring results including any Action Level exceedances; and
 - ii. A list of any Action Level exceedances and a description of actions taken in response to any Action Level exceedances.
- p) A summary of activities conducted in accordance with the approved Spill Contingency Plan, required in Part G, condition 2 of this Licence, including:
- i. A list and description for all spills 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. A summary of any spill training carried out.
- q) A summary of any Closure and Reclamation work completed. The Report shall be in accordance with the Mackenzie Valley Land and Water Board and Aboriginal Affairs and Northern Development Canada's *Guidelines for the Closure and Reclamation of Advanced Mineral Exploration and Mine Sites in the Northwest Territories*. It shall include but not be limited to:
- i. A progress update on closure and reclamation planning, implementation and schedule, and any changes;

- ii. A summary of engagement since the previous year;
 - iii. A description of reclamation trials / research results that will be used to inform closure planning going forward;
 - iv. Progressive reclamation completed within the last year and the detailed plan for any proposed progressive reclamation for the upcoming year;
 - v. A list of other closure-related reports or studies submitted since the last annual CRP progress report; and
 - vi. A list of any factors that would influence the Closure Cost Estimate.
- r) Tabular summaries of all data and information generated under the Surveillance Network Program annexed to this Licence and graphical summaries of parameters in Microsoft Excel™ format.
- s) A list of any non-compliance(s) with the conditions of this Licence or any direction from the Superintendent pursuant to the conditions of this Licence;
- t) A summary of actions taken to address concerns, non-conformances, or deficiencies in any inspection reports;
- u) A table detailing all commitments related to Water use and the deposit of Waste made during the Environmental Assessment, with descriptions of how each commitment is being or has been met; and
- v) A summary of activities conducted in accordance with the approved Fish and Fish Habitat Protection Plan required in Part F, condition 19 of this Licence including:
 - i. A summary of approved updates or changes to the Fish and Fish Habitat Protection Plan
 - ii. A summary and interpretation of any monitoring results; and
 - iii. A list of any Action Level exceedances and a description of actions taken in response to any Action Level exceedances.
- w) Any other details requested by the Superintendent by November 30 of the year being reported.

Schedule 2
Attached to Water Licence PC2014L8-0006
Canadian Zinc Corporation – All Season Road

Part C: Reclamation Security Requirements

1. Pursuant to 41.1(4) of the *Canada National Parks Act* and the applicable regulations under that Act, the Licensee shall deposit with the Minister a security deposit referred to in Part C, condition 1 of this Licence, totaling \$3,056,474 based on the schedule set out below:
 - a) Prior to commencement of Phase 1 activities, the Licensee shall post and maintain a security deposit of \$482,067; and
 - b) Prior to commencement of Phase 2 activities, the Licensee shall post and maintain an additional security deposit of \$2,574,407, to maintain a total security deposit in the amount \$3,056,474.

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Schedule 3
Attached to Water Licence PC2014L8-0006
Canadian Zinc Corporation – All Season Road

Part E: Construction

1. The **Structure Description and Construction Plan** referred to in Part E, condition 9, shall include, but not be limited to the following:
 - a) Information about the design of the facilities:
 - i. A description of the facilities to be constructed;
 - ii. The proposed location(s) of the facilities, with GPS coordinates and a map to scale;
 - iii. Relevant background information for the area beneath the footprint of the containment and runoff control structures, including the results of geotechnical and geochemical investigations; hydrogeological investigations; programs to characterize soil, rock, Groundwater, ground ice, and ground temperature conditions to the depth expected to be affected by the proposed facilities; and any other relevant information;
 - iv. Design specifications and performance parameters; and
 - v. Design analysis and results.
 - vi. As applicable, for the road:
 - a. coordinates and curve tables, also supplied in digital format, including route centerlines (P-lines);
 - b. for the Typical Winter Road, geometric layout that outlines the road width and right of way, depicted in a plan view map that shows the preferred location of the road, the extent of clearing to be completed, and the proposed ASR right of way clearing; and
 - c. for the Non-Typical Winter Road, additional detail on road characteristics in profile view and any site specific construction considerations.
 - b) Information about the Construction of the facilities:
 - i. A Construction schedule, including sequencing information;
 - ii. A description of the materials required for Construction, including, but not limited to:
 - a. sources;
 - b. quantities;
 - c. physical characteristics; and
 - d. geochemical characteristics.
 - iii. A description of any potential impacts on the Receiving Environment associated with Construction of the facilities;
 - iv. A description of any mitigation measures that will be undertaken to minimize the potential impacts identified above;
 - v. A description of the Construction monitoring program to demonstrate conformance with design specifications; and
 - vi. A description of the operational monitoring program to demonstrate conformance with the design performance.
 - c) A description of an adaptive management framework that satisfies the requirements of Report of Environmental Assessment Appendix B.
2. The **Design and Construction Plan** referred to in Part E, condition 10, shall include, but not be limited to the following:
 - a) Information about the design of the facilities:
 - i. A description of the facilities to be constructed;
 - ii. The proposed location(s) of the facilities, with GPS coordinates and a map to scale;
 - iii. Relevant background information for the area beneath the footprint of the containment and runoff control structures, including the results of geotechnical and geochemical investigations; hydrogeological investigations; programs to characterize soil, rock, Groundwater, ground ice, and ground temperature conditions to the depth expected to be affected by the proposed facilities; and any other relevant information, as deemed adequate by the Professional Engineer responsible for the design;
 - iv. Design specifications and performance parameters; and

- v. Stability analyses.
 - vi. As applicable, for the road:
 - a. coordinates and curve tables, also supplied in digital format, including route centerlines (P-lines);
 - b. for the Typical Winter Road, geometric layout that outlines the road width and right of way, depicted in a plan view map that shows the preferred location of the road, the extent of clearing to be completed, and the proposed ASR right of way clearing; and
 - c. for the Non-Typical Winter Road, additional detail on road characteristics in profile view and any site specific construction considerations.
- b) Information about the Construction of the facilities:
- i. A Construction schedule, including sequencing information;
 - ii. A description of the materials required for Construction, including, but not limited to:
 - a. sources;
 - b. quantities;
 - c. physical characteristics; and
 - d. geochemical characteristics.
 - iii. A description of any potential impacts on the Receiving Environment associated with Construction of the facilities;
 - iv. A description of any mitigation measures that will be undertaken to minimize the potential impacts identified above;
 - v. A description of the Construction monitoring program to demonstrate conformance with design specifications; and
 - vi. A description of the operational monitoring program to demonstrate conformance with the design performance.
- c) A description of an adaptive management framework that satisfies the requirements of Report of Environmental Assessment Appendix B.
- d) A quality control plan 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

Attached to Water Licence PC2014L8-0006 Canadian Zinc Corporation – All Season Road

Part F: Waste and Water Management

1. The **Sediment and Erosion Control Plan**¹ referred to in Part F, condition 6, shall include, but not be limited to the following for the activities associated with each phase:
 - a) Inspections on land, including but not limited to:
 - i. Short- and long-term inspection methods, locations (provide a map), and parameters;
 - ii. Inspection form(s) that denote the items/parameters that will be assessed during inspection;
 - iii. Inspection frequency including any criteria that will be used to modify this frequency or discontinue;
 - iv. Quality assurance and quality control; and
 - v. A mechanism for reporting the findings of inspections.
 - b) Monitoring on land, including but not limited to:
 - i. Short- and long-term monitoring (survey, sampling, testing) methods;
 - ii. Monitoring locations and collection methodology including supporting rationale and parameters;
 - iii. Monitoring duration and frequency including any criteria that will be used to modify this frequency or discontinue monitoring;
 - iv. Quality assurance and quality control;
 - v. A mechanism for reporting and interpretation of the monitoring data;
 - vi. Proposed control and mitigation measures, including specific measures that will be used in riparian areas; and
 - vii. A description of an adaptive management framework that satisfies the requirements of Report of Environmental Assessment Appendix B, including but not limited to:
 - a. a decision tree which outlines the path of adaptive management decisions based on results of the monitoring program.
2. The **Permafrost Management and Monitoring Plan** referred to in Part F, condition 8, shall include, but not be limited to the following for the activities associated with each phase:
 - a) Fulfills Report of Environmental Assessment Measure 12-1 Part 4;
 - b) Identification of monitoring (survey, sampling, testing) methods, locations (provide a map), site selection and parameters for permafrost baseline collection and short/long term monitoring;
 - c) A summary of findings from baseline collection and how it will be used to inform detailed and final design of the Winter Road, All Season Road, Borrow Pits, and other infrastructure in a way that anticipates and avoids permafrost degradation and associated impacts on the surrounding environment;
 - d) Monitoring duration and frequency including any criteria that will be used to modify this frequency or discontinue monitoring;
 - e) Quality assurance and quality control measures;
 - f) A mechanism for reporting and interpreting the baseline, short- and long-term monitoring data;
 - g) Proposed control and mitigation measures;
 - h) A description of an adaptive management framework that satisfies the requirements of Report of Environmental Assessment Appendix B, including but not limited to:
 - i. A decision tree which outlines the path of adaptive management decisions based on results of the monitoring program.

¹ Note: all water quality monitoring related to sediment and erosion will be captured and referred to in Schedule 4, condition 5.

3. The **Geochemical Verification Program**² referred to in Part F, condition 10, shall include, but not be limited to the following for the activities associated with each phase:
 - a) Identification of monitoring (survey, sampling, testing) methods for geochemical characterization studies (Acid Rock Drainage/Metal Leaching potential) of bedrock, Borrow sources, and overburden, with supporting rationale and parameters;
 - b) A summary of findings from geochemical characterization studies (Acid Rock Drainage/Metal Leaching potential) on the bedrock, borrow sources, and overburden;
 - c) Monitoring locations (provide a map) for follow-up verification testing, with supporting rationale;
 - d) Monitoring duration and frequency including any criteria that will be used to modify this frequency or discontinue monitoring;
 - e) Criteria for defining PAG, non-PAG and Metal Leaching materials with supporting rationale;
 - f) Criteria for defining high, moderate, and low risk Waste Rock, with supporting rationale;
 - g) A mechanism for reporting results and interpretation of the data;
 - h) Quality assurance and quality control measures;
 - i) A contingency plan in the event of increasing trends in metal leaching or acid generation potential; and
 - j) A description of an adaptive management framework that satisfies the requirements of Report of Environmental Assessment Appendix B including but not limited to:
 - i. A decision tree which outlines the path of adaptive management decisions based on results of the monitoring program.
4. The **Borrow Pit Management Plan** referred to in Part F, condition 12, shall include, but not be limited to the following for the activities associated with each phase:
 - a) Details regarding the design of each Borrow Pit, including but not limited to:
 - i. Physical characteristics;
 - ii. Hydrogeological considerations (maintaining natural drainage); and
 - iii. Intended purpose of each Borrow Pit (long-term versus construction only).
 - b) Rationalization for all proposed Borrow Pits, including a consideration of permafrost conditions at each Borrow Pit;
 - c) Reference to the results of the Geochemical Verification Program for each Borrow Pit, including an incorporation of any necessary mitigations;
 - d) Erosion and sedimentation control details for each Borrow Pit; and
 - e) A schedule, including proposed sequence and timing of Borrow development.
5. The **Water Monitoring Plan** referred to in Part F, condition 15, shall include, but not be limited to the following for the activities associated with each phase:
 - a) Baseline monitoring that fulfill the Report of Environmental Assessment Measure 8-1, Part 2, including but not limited to:
 - i. A clear description of how Measure 8-1, Part 2 will be met, including rational for the number of hydrometric stations selected;

² Note: all geochemical water quality monitoring will be captured and referred to in Schedule 4, condition 5.

- ii. Hydrological conditions;
 - iii. Areas with concerns of Acid Rock Drainage and Metal Leaching, total suspended sediment and turbidity, and blast residue;
 - iv. Water quality in watercourses listed in the Surveillance Network Program annexed to this licence; and
- b) Monitoring details for the Project, including but not limited to:
- i. Identification of short- and long-term monitoring (survey, sampling, testing) methods;
 - ii. Monitoring locations (provide a map) for follow-up verification testing, with supporting rationale;
 - iii. Monitoring duration and frequency including any criteria that will be used to modify this frequency or discontinue monitoring;
 - iv. Analytical requirements;
 - v. Quality assurance and quality control;
 - vi. A mechanism for reporting results and interpretation of the data; and
 - vii. Proposed control and mitigation measures.
- c) Ensure that b) specifies monitoring at:
- i. Watercourses and watercourse crossings;
 - ii. Borrow Pits (including during or immediately following rainfall events);
 - iii. Road embankment cuts;
 - iv. Runoff controls;
 - v. Surface water diversions;
 - vi. Water settling structures;
 - vii. Where explosives are used; and
 - viii. Streams with flow in winter, if there could be disturbance of the ice/snow cover over the flowing water caused by erodible material that could generate sediment.
- d) Include further details of monitoring for total suspended solids (TSS), including but not limited to:
- i. Plan for the development of a TSS/turbidity regression curve to establish the site-specific relationship between turbidity field measurements and laboratory measurements;
 - ii. Plan to measure upstream, near and downstream and near, mid- and far-field of construction activities; and
 - iii. Location of streams for long-term monitoring.
- e) A description of an adaptive management framework that satisfies the requirements of Report of Environmental Assessment Measure 8-1 Part 5 and Appendix B, including but not limited to:
- i. A decision tree which outlines the path of adaptive management decisions based on results of the monitoring program.
6. The **Explosives Management Plan**³, referred to in Part F, condition 17, shall include, but not be limited to the following for the activities associated with each phase:
- a) Mitigation approaches to be deployed in handling, use, and storage of explosives;
 - b) How the Licensee proposes to minimize nitrogen species loading to the environment;
 - c) A description of the monitoring required to evaluate whether the mitigation approaches for storage, handling, and blasting procedures are effective, with rationale.
 - d) A description of an Adaptive Management framework that satisfies the requirements of Report of EA Appendix B, including but not limited to:

³ Note: all water quality monitoring related to explosives will be captured and referred to in Schedule 4, condition 5.

- i. A decision tree that outlines the path of Adaptive Management decisions based on results of the monitoring program.
7. The **Fish and Fish Habitat Protection Plan** referred to in Part F, condition 19, shall include, but not be limited to the following for the activities associated with each phase:
- a) A description of how fish and fish habitat will be managed for the Project, specifically at the proposed water crossings and areas of project encroachment on potentially fish bearing Watercourses;
 - b) A description of the potential pathways of fish habitat loss (e.g. construction, etc.) or degradation (e.g., use of explosives, blasting residue, sediment release, spills, etc.);
 - c) A description of baseline collection necessary to design, construct and operate the project so that fish and fish habitat are protected throughout the life of the project and to inform which Watercourses have the potential to be fish-bearing;
 - d) A description of the mitigations required for potential impacts to fish and fish habitat;
 - e) A description of the monitoring program that will be used to detect both short and long term project related effects on fish and fish habitat, including but not limited to:
 - i. Sampling methods, locations, timing, duration and frequency including any criteria that will be used to modify this frequency or discontinue monitoring;
 - ii. Quality assurance and quality control; and
 - iii. Mechanism for reporting and interpretation of the monitoring data.
 - f) A description of an adaptive management framework that satisfies the requirements of Report of Environmental Assessment Appendix B, including but not limited to:
 - i. A decision tree which outlines the path of adaptive management decisions based on results of the monitoring program;

Water withdrawal⁴

Crossing Structure design

- h) The baseline data (e.g., fish species swim speeds) and calculations used to inform the sizing and design of crossing structures that will be constructed in watercourses that have the potential to be fish-bearing to ensure that they provide fish passage at a three-day delay during a 1:10 year flow event (3Q10);
- i) A description of the maintenance plan that will be in place for culverts in the event that barriers to fish passage occur due to ice blockage, flooding, debris, beaver activity, or culvert perching; and

Sundog Creek

- j) A subsection for the information specific to the alignment along Sundog Creek, in accordance with the Report of Environmental Assessment Measure 9-1.

8. The **Waste Management Plan** referred to in Part F, condition 4, shall be in accordance with the Mackenzie Valley Land and Water Board's *Guidelines for Developing a Waste Management Plan*, and/or to the satisfaction of the Superintendent, and include but not be limited to:
- a) A Greywater management plan for the development, management and decommissioning of grey water septic systems within NNPR, in accordance with the Yukon Government's *Environmental Health Services Guidelines for Grey Water Disposal at Remote Camps* (2012) and/or the direction of the Superintendent, including:

⁴ The monitoring of water withdrawal locations to demonstrate that project water withdrawal meets the License daily limit and DFO Guidelines is contained with the Surveillance Network Program (Annex A).

- i. a design of the grey water septic system being proposed;
 - ii. the soil stratification for all proposed locations;
 - iii. the depth of the water table; and
 - iv. the distance to nearest water course/ water body and potable water source.
 - v. A closure plan for each camp with a wastewater system that details how the treatment works will be decommissioned upon camp closure. The closure plan must be prepared by a qualified professional.
- b) A management plan for Toilet Wastes that shall include but not be limited to:
- i. Storage of all Toilet Wastes within NNPR in holding tanks for removal and treatment off site at an approved location. Details on the storage, removal and transportation must be provided; **OR**,
 - ii. A septic system and onsite disposal field at each camp in NNPR. Plans will include but not be limited to:
 - a) Details on the development, management and decommissioning of each system;
 - b) a design of the septic treatment system being proposed in accordance with the Yukon Government's *Design Specifications for Sewage Disposal Systems (2017)* and/or the direction of the Superintendent;
 - c) in the case of a septic system, a soil stratification for all proposed locations;
 - d) the depth of the water table;
 - e) the distance to nearest water course/ water body and potable water source;
 - f) depending on the choice of sewage treatment system, a ground water quality monitoring program may also be required which will include thresholds for active management; and
 - g) A closure plan for each camp with a wastewater system that details how the treatment works will be decommissioned upon camp closure. The closure plan must be prepared by a qualified professional.

Schedule 5
Attached to Water Licence PC2014L8-0006
Canadian Zinc Corporation – All Season Road

Part H: Closure and Reclamation

1. The **Closure and Reclamation Plan** referred to in Part H, condition 1, shall include, but not be limited to, the following:
 - a) A description of how the Report of Environmental Assessment Suggestion 14-1 is fulfilled;
 - b) A plain language summary of the Plan;
 - c) A description of the overall goals for Closure and Reclamation of the Project, including expected future land use;
 - d) A description of the Closure and Reclamation planning team;
 - e) 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;
 - f) A list of any other regulatory instruments required for Closure and Reclamation of the Project;
 - g) 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 including reference vegetation communities;
 - v. Physical or chemical assessments of soil, water, and permafrost; and
 - vi. Traditional uses.
 - h) 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 locations, site facilities, hydrological features, and elevation contours; and
 - v. Photographs.
 - i) A description of each Project component, including, but not limited to:
 - i. Road
 - ii. Right of way
 - iii. Stream crossings;
 - iv. Camp and laydown area;
 - v. Borrow Pits;
 - vi. Areas affected by spills or Unauthorized Discharges; and
 - vii. Other areas affected by Project activities.
 - j) 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 and materials for each Project component identified in item (i) 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. Description of an adaptive management framework that satisfies the requirements of Report of Environmental Assessment Appendix B;
 - viii. Uncertainties and contingencies;
 - ix. Climate change considerations; and
 - x. Plans for Reclamation Research.
- k) A description of any planned Progressive Reclamation, including, but not limited to:
- i. Closure Objectives and Criteria;
 - ii. Preferred Closure and Reclamation option and method and materials for each Project component identified in item (i) condition 4 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. Description of an adaptive management framework that satisfies the requirements of Report of Environmental Assessment Appendix B;
 - viii. Uncertainties and contingencies;
 - ix. Climate change considerations; and
 - x. Plans for Reclamation Research.
- l) 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. A description of an adaptive management framework that satisfies the requirements of Report of Environmental Assessment Appendix B;
 - v. Contingencies; and
 - vi. An implementation schedule.
- m) An implementation schedule that includes Progressive Reclamation and final Closure and Reclamation activities; and
- n) A Closure Cost Estimate
- o) A plan for post-closure reclamation monitoring and maintenance
- p) A recovery model based on the Society for Ecological Restoration's *International Standards for the Practice of Ecological Restoration* to demonstrate that the reclamation approach is designed to help progress the site on the trajectory of Ecological Restoration.
- q) An explanation of how other plans including the Sediment and Erosion Control Plan and Invasive Species Management Plan are linked to the objectives in the Closure and Reclamation Plan.

ANNEX A: SURVEILLANCE NETWORK PROGRAM

LICENSEE: Canadian Zinc Corporation

LICENCE NUMBER: PC2014L8-0006

EFFECTIVE DATE OF LICENCE: November 22, 2019

EFFECTIVE DATE OF SURVEILLANCE NETWORK PROGRAM (SNP): November 22, 2019

Part A – Surveillance Network Program Description and Monitoring Requirements

1) The location of sampling sites and specific monitoring requirements are as follows:

SNP station Quick Reference Table

SNP Station ID	Description	Status
SNP NNPR-2019 -1 a, b, c, d, e, f, g, h and i	The daily Water Use for all purposes, and instantaneous flow where applicable. a) Mosquito Lake (km 63.5) b) Lake 70 (km 70.5) c) Sundog Creek I (km 23.1) d) Sundog Creek II (km 29.0) e) Sundog Creek III (km 37.5) f) Polje Creek (km 53.2) g) Fishtrap Creek (km 94.6) h) Tetcela River (km 89.4) i) Cat Camp pit (km 39.4)	Active <u>during construction and operation of all phases of the All Season Road</u>
SNP NNPR-2019-2 a, b, c, d, e, f, g, h, i and j	Monitor surface water quality at stream crossings including: a) Sundog Creek (KP 20.3) b) Sundog Creek (KP 23.3) c) Sundog Creek (KP 25.4) d) Sundog Creek (KP 28.5) e) Sundog Creek (KP 39.2) f) Unnamed (KP 42.9) g) Poljie (KP 53.2) h) Tetcela (KP 87.0) i) Tetcela (KP 89.5) j) Fish Trap (KP 95)	Active <u>during spring freshet and summer during construction and operation of all phases of the All Season Road</u>

a) Surveillance Network Program (SNP) NNPR-2019-1 a, b, c, d, e, f, g, h and i:

Description:	The daily Water Use for all purposes, and instantaneous flow where applicable. Water Use shall be measured and recorded in m ³ .
Location:	a) Mosquito Lake (km 63.5) b) Lake 70 (km 70.5) c) Sundog Creek I (km 23.1) d) Sundog Creek II (km 29.0) e) Sundog Creek III (km 37.5) f) Polje Creek (km 53.2) g) Fishtrap Creek (km 94.6) h) Tetcela River (km 89.4) i) Cat Camp pit (km 39.4)
Sampling Frequency:	Daily when pumping is in progress
Sampling Parameters:	<ul style="list-style-type: none"> • Flow- Meter, Volume (m³) • Instantaneous flow for Locations c, d, e, f, g, and h

Rationale:	Compliance monitoring sites, in accordance with daily quantity Water Use limits identified in Part D, condition 1 of this Licence, and DFO guidelines for water withdrawal ⁵ . To monitor the quantity of daily Water Use and instantaneous flow where applicable.
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b) Surveillance Network Program (SNP) NNPR-2019-2 a, b, c, d, e, f, g, h, i and j:

Description:	The surface water quality at major stream crossings
Location:	<ul style="list-style-type: none"> a) Sundog Creek (KP 20.3) b) Sundog Creek (KP 23.3) c) Sundog Creek (KP 25.4) d) Sundog Creek (KP 28.5) e) Sundog Creek (KP 39.2) f) Unnamed (KP 42.9) g) Poljie (KP 53.2) h) Tetcela (KP 87.0) i) Tetcela (KP 89.5) j) Fish Trap (KP 95)
Sampling Frequency:	June (spring freshet) and August (summer)
Sampling Parameters:	<ul style="list-style-type: none"> • Field parameters⁶ (pH, electrical conductivity [EC], temperature, dissolved oxygen [DO], turbidity) • Total Suspended Solids (TSS)⁷ • Oil and Grease (Hexane Extractable Materials) • pH • Total Petroleum Hydrocarbons (F1, F2, F3, F4 CCME Fractions) • Benzene, Toluene, Ethylbenzene, Xylene (BTEX) • Total Metals⁸ (Metals shall include, but not be limited to, analysis of the following parameters: Aluminum, Arsenic, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Thallium, Uranium, and Zinc)
Rationale	To monitor any impacts of stream crossing to water quality.

2) The location of sampling sites is subject to approval of the Superintendent.

3) More frequent sample collection may be required at the request of the Superintendent.

4) All sample collection, preservation, and analyses shall be conducted in accordance with methods prescribed in the current edition of American Public Health Association's (APHA) *Standard Methods for the Examination of Water and Wastewater* at the time of analysis, or by such other methods approved by the Superintendent.

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 the Superintendent.

⁵ DFO. 2013. Framework for Assessing the Ecological Flow Requirements to Support Fisheries in Canada. DFO Can. Sci. Advis. Sec. Sci. Advis. Rep. 2013/017; and DFO. 2005. DFO Protocol for Winter Water Withdrawal In the Northwest Territories

⁶ Laboratory measurements of PH, electrical conductivity and turbidity are required in addition to field measurements.

⁷ Total suspended solids (TSS) samples are to be measured in accordance with the approved Water Monitoring Plan referred to in Part F, Condition 14.

⁸ Inductively Coupled Plasma Mass Spectrometry (ICP-MS) or equivalent shall include at a minimum, the following parameters: Aluminum (Al), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Cobalt (Co), Copper (Cu), Chromium (Cr), Cesium (Cs), Iron (Fe), Lead (Pb), Lithium (Li), Manganese (Mn), Molybdenum (Mo), Nickel (Ni), Rubidium (Rb), Selenium (Se), Strontium (Sr), Titanium (Ti), Thallium (Tl), Uranium (U), Vanadium (V), Zinc (Zn). Total metals shall be analyzed in an unfiltered sample.

- 6) A **Quality Assurance/Quality Control Plan (QA/QC Plan)** which includes both field and laboratory requirements shall be submitted to the Superintendent, for approval, not less than sixty (60) days in advance of any sampling conducted.
- 7) The Licensee shall act in accordance with the approved QA/QC Plan and shall review the Plan annually or as directed by the Superintendent and make any necessary revisions to reflect changes in operations. Revisions to the Plan shall be submitted to the Superintendent, for approval.
- 8) If the Quality Assurance and Quality Control Plan is not approved by the Superintendent, the Licensee shall revise the Plan according to the Superintendent's direction and re-submit it to the Superintendent for a decision.

Part B – ~~Volume and Temperature Measurement Reporting~~ Requirements

~~1) All volume and temperature measurements shall be measured and recorded continuously (i.e., using electronic data storage chips or equivalent) during periods of Discharges and reported on a monthly basis;~~

~~The water temperature at Surveillance Network Program Station Numbers NNPR-2019-2 measurements shall be measured and recorded in degrees Celsius;~~

- 1) Beginning on the effective date of the Surveillance Network Program, and for every month thereafter, the Licensee shall submit to the Superintendent, a **Surveillance Network Program Report**, which shall include, but not be limited to the following:
 - a) Electronic and tabular summaries of all data and information generated under the SNP for the month being reported, 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 point of compliance (SNP station NNPR-2019-2 a, b, c, d, e, f, g, h and i) with comparison to the criteria specified in Part F, Condition 24;
 - c) An explanation of any actions taken in response to any exceedances to the criteria in Part F, Condition 24;
 - d) Information regarding the calibration and status of the meters and devices referred to in Part B of this Licence;
 - e) The coordinates of all SNP stations which were established within the month being reported, including an updated map identifying the locations of all the SNP stations; and
 - f) The daily volumes of Water pumped from the Water sources listed in Part D, Condition 2;
 - g) A tabular summary of cumulative Water use.

ANNEX B: CONCORDANCE TABLE OF ITEMS REQUIRING SUBMISSION

This table summarizes the information the Licensee is required to submit as per the Water Licence conditions.

Part of Licence	Item	Date
Annex A	Monthly SNP Report	Within 30 days of the end of the reporting month
Part B, condition 9	Revised terms of reference, plans, reports, and programs	A minimum of 90 days prior to implementing any proposed changes
Part B, condition 10	Revised terms of reference, plans, reports, and programs for Phases 1, 2, 3	A minimum of 90 days prior to the commencement of each phase and implementing any proposed updates or changes
Part B, condition 19	Annual Water Licence Report	March 31
Part B, condition 20	Engagement Plan	A minimum of 90 days prior to the commencement of Phase 1 activities
Part E, condition 7	Revised Panel's Terms of Reference	90 days prior to implementation of any changes to the Terms of Reference
Part E, condition 9	Structure Description and Construction Plan	90 days prior to the commencement of Construction of all structures, excluding Engineered Structures, intended to contain, withhold, divert, or retain Water or Wastes not accepted and received by the Panel
Part E, condition 10	Design and Construction Plan	A minimum of 90 days prior to the commencement of Construction of any Engineered Structures not reviewed and accepted by the Panel
Part E, condition 10	Design Drawings	A minimum of 90 days prior to the commencement of Construction of any Engineered Structures not reviewed and accepted by the Panel
Part E, condition 11	Final Report, Design and Construction Plan, Design Drawings	A minimum of 90 days prior to the commencement of Construction of any structures reviewed and accepted by the Panel
Part E, condition 12	Final Report, Design and Construction Plan, Design Drawings (revised)	A minimum of 45 days prior to implementing any proposed changes
Part E, condition 16	As-Built Report	Within 90 days of the completion of the Construction of each Engineered Structure
Part F, condition 4	Waste Management Plan	A minimum of 90 days prior to the commencement of Phase 1 activities
Part F, condition 6	Sediment and Erosion Control Plan	A minimum of 90 days prior to the commencement of Phase 1 activities
Part F, condition 8	Permafrost Management and Monitoring Plan	A minimum of 90 days prior to the commencement of Phase 1 activities
Part F, condition 10	Geochemical Verification Program	A minimum of 90 days prior to the commencement of Phase 1 activities
Part F, condition 12	Borrow Pit Management Pit	A minimum of 90 days prior to the development of any Borrow Pit
Part F, condition 13	Borrow Source Optimization Report	A minimum of 90 days prior to development of any Borrow Pit

Part F, condition 15	Water Monitoring Plan	A minimum of 90 days prior to the commencement of Phase 1 activities
Part F, condition 17	Explosives Management Plan	A minimum of 90 days prior to handling, using, or storing explosives
Part F, condition 19	Fish and Fish Habitat Protection Plan	A minimum of 90 days prior to the commencement of Phase 2
Part F, condition 23	Geotechnical and Geochemical Inspection Report	Within 90 days of completing the inspection
Part G, condition 2	Spill Contingency Plan	A minimum of 90 days prior to the commencement of Phase 1 activities
Part G, Condition 9	Emergency Response Plan	A minimum of 90 days prior to the commencement of Phase 1 activities
Part H, condition 1	Closure and Reclamation Plan	A minimum of 90 days prior to the commencement of Phase 1 activities, and a minimum of 90 days prior to the commencement of Phase 2 activities
Part H, condition 3	Final Closure and Reclamation Plan	Three years prior to the expiration of this Licence, or a minimum of two years prior to the end of operations, whichever occurs first
Part H, condition 7	Closure and Reclamation Completion Report	Within 90 days of completing Closure and Reclamation of any specific component of the Project
Part H, condition 8	Performance Assessment Report	Within 4 months of completing Closure and Reclamation of any specific component of the Project

ANNEX C: Table of Revision History

Date	Location of Change	Description of Change

DRAFT