



Bonnie Bergsma
Regulatory Specialist
SAHTU LAND AND WATER BOARD
PO BOX 1
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December 3, 2024

Dear Ms. Bergsma:

Submission of 2023-2024 Annual Report for Water Licence S20L8-002

The Government of the Northwest Territories Department of Infrastructure is pleased to submit the attached 2023-2024 Annual Report for Water Licence S20L8-002 for Phase 1 of the Prohibition Creek Access Road. The Annual Report is being provided in accordance with Part B, Condition 17 and responding to the requirements of Schedule 1, Condition 1 of the amended Water Licence issued on June 9, 2023.

Should you have any questions or if you would like further information, please contact myself, Andrew Lirette, Senior Environmental Analyst, via email at Andrew.Lirette@gov.nt.ca or by telephone at (867) 767-9082 ext. 31030. You may also contact Kelly Bourassa, Senior Environmental Analyst, via email at Kelly.Bourassa@gov.nt.ca or by telephone at (867) 767-9082 ext. 31032.

Sincerely,

Andrew Lirette
Senior Environmental Analyst
Infrastructure

Attachment

c. Distribution List

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Prohibition Creek Access Road – Phase 1
S20L8-002

2023-2024 Annual Water Licence Report

December 2024

2024 Annual Water Licence Report

The Annual Water Licence Report is being provided in accordance with Part B, Condition 17 and responding to the requirements of Schedule 1, Condition 1 of the amended Water Licence issued on June 9, 2023. The reporting period covers October of 2023 to October of 2024.

The information required by Schedule 1, Condition 1 of the amended Water licence are detailed below:

a. A brief summary of project activities

- Construction Contract awarded: October 24, 2022
- Work commenced: November 22, 2022
- Original completion date: Oct 31, 2023
- Revised completion date: Sep 15, 2024
- Previous Annual Water License Report (2022-2023) submitted: January 2024
 - Substantial work under the construction contract was complete as of September 2024
 - Road was opened on September 05, 2024
 - For operations and maintenance, 3 stockpiles of 50 millimetre (mm) and 20mm materials are currently located at Edie Lake quarry.
 - Pile# 1 - 4,031 cubic meters (m³) of 50 mm material.
 - Pile# 2 - 6,380 m³ of 20 mm material.
 - Pile# 3 - 11,411 m³ of 20 mm material.

Prohibition Creek Access Road Phase 1 (Total 6.7 kilometers (km)), Winter 2023/2024 Construction

- No work was performed during winter 2023/2024.

Prohibition Creek Access Road Phase 1 (Total 6.7 Km), Spring/Summer 2024 Construction

- Embankment Construction: Construction from km 0+000 to km 6+700 = 6.7 km, approximately 11,934 m³ of minus 300 mm blasted rock placed during the summer construction. Four haul trucks were used.
- Pit development: Approximately 17,600 m³ of rock was blasted in the Eddie Lake Quarry.
- Crushing of 11,411 m³ of 20 mm materials was performed at Edie Lake quarry.
- Geo-textile: Installed Approximately 3,880 square meters (m²).
- Placement of 20 mm surfacing materials south of Francis Creek bridge from km 3+540 to km 6+600 = 3.06 km.
- Resurfacing (100 mm thick) of Edie Lake quarry access road (1.5 km) with 20 mm materials was completed.
- Delineators: 96 units placed on both sides of the roadway from km 3+300 to km 6+600 = 3.3 km.
- Installation of guardrails: A culvert located at km 6+319 had 164 m of guard rail installed on both sides. At Francis Creek Bridge, 176 m of guardrails have been installed on both sides. At Helava Creek Bridge, 153 m of guardrails have been installed on both sides.

- Seeding: Approximately 150 kg of seed has been spread at various locations from km 0+000 to km 6+700 = 6.7 km.
- Coconut matting: Approximately 3,000 m² of matting has been placed at various locations from km 0+000 to km 6+700 = 6.7 km.
- KM Posts: Installation of KM post markers occurred from the start of the Canyon Creek All-Season Access Road (Norman Wells side) to the end of the Prohibition Creek Access Road Phase 1 project limits (Tulita side) at a spacing of 2 km.
- Steam pipes: Steam pipes have been installed for all 32 culverts within this project.

Summary: Prohibition Creek Access Road Phase 1 (Total 6.7 Km), 2023 - 2024 Construction

Embankment Construction: Construction on Prohibition Creek main road from km 0+000 to km 6+700 = 6.70 km, approximately 11,934 m³ of minus 300 mm blasted rock was placed.

- Base course materials placed (minus 20 mm crushed gravel) including Edie Lake quarry access road = 4,159 m³
- Installation of guardrails = 493 m
- Seeding = 150 kg
- Coconut matting = 3,000 m²
- Installation of Km posts = 10 posts
- Steam pipes: Steam pipes have been installed for all 32 culverts within this project.

Subcontractors from the Sahtu region:

1. Willowlake Environmental
2. Sahtu Geomatic
3. Neyo Drilling
4. Tetra Tech
5. End Dump Subcontractors

b. An updated project schedule

The road was substantially completed and opened to the public on September 05, 2024.

c. The monthly and annual quantities in cubic metres of fresh Water obtained from all sources, as required in Part B, Condition 16 (MEASURE WATER USE AND WASTE DISPOSAL) of this Licence

Water was obtained from authorized sources (Mackenzie River and Canyon Creek) for use in various construction and dust control activities. Please refer to 'Appendix A – Water Withdrawal Dates and Volumes' for a detailed breakdown of water extraction and use. Monthly water volumes are summarized below:

- **Annual volume: 1,946 m³**
- June 2024: 1,850 m³
- July 2024: 96 m³

All authorized wastes were disposed of following the procedures set out in the approved Waste Management Plan. No unauthorized wastes were created or disposed of.

d. A summary of the calibration and status of the meters and devices referred to in Part B, Condition 16 (MEASURED WATER USE AND WASTE DISPOSAL) of this Licence

Water withdrawal volumes were measured on a load count basis. The number of daily loads was tracked using a load sheet and multiplied by the water truck tank capacity of 14 m³. The pump type was a 3" Boy pump with a screen mesh size of 2.54 mm. The flow rate for extraction and withdrawal was 10 l/s. Refer to 'Appendix A - Water Withdrawal Dates and Volumes' for a summary of these daily extraction volumes.

e. A summary of engagement activities conducted in accordance with the approved Engagement Plan, referred to in Part B, Condition 18 of this Licence;

No engagement activities were undertaken during the period of this annual report.

News Releases

September 9, 2024

GNWT announced that the Prohibition Creek Access Road Phase 1 has opened to the public.
<https://www.gov.nt.ca/en/newsroom/prohibition-creek-access-road-phase-1-opens-public>

f. A summary of how Traditional Knowledge was incorporated into decision making

As evidenced by the completion of the Traditional Knowledge studies included as part of the Regulatory Application for the project, Traditional Knowledge has been incorporated into the Prohibition Creek Access Road throughout the planning, design, and construction phases of the project.

Clearing of land has occurred within the predetermined Right-of-Way, which was heavily influenced by Traditional Knowledge through the identification of known and potential archaeological sites. Results from Traditional Knowledge studies have confirmed that maintaining the health of streams that the Prohibition Creek Access Road Right-of-Way intersects is crucial as several locals use these waterbodies for fishing and as a source of drinking water. During the construction of Prohibition Creek Access Road Phase 1, additional work was required at the Francis, Helava, and Christina Creek. Mitigation measures (guided by the Department of Fisheries and Oceans) were implemented to ensure that no further sedimentation occurred, fish timing windows were respected, and that active fish passage was maintained.

g. A summary of activities conducted in accordance with the approved Spill Contingency Plan, referred to in Part H, Condition 2 of this Licence, including:

- 1. A list and description for all Spills and Unauthorized Releases, including the date, NWT spill number, volume, location, summary of the circumstances and follow-up actions taken, and**

status (i.e., open or closed), in accordance with the reporting requirements in Part H, Condition 3 of this Licence; and

N/A

2. An outline of any spill training carried out.

The approved Spill Contingency Plan was reviewed by all employees prior to commencing work. Daily toolbox meetings and regular weekly meetings were held where spill prevention, containment, and clean up methods were discussed.

h. A summary of any Progressive Reclamation or Final closure work completed

- An inspection of Land Use Permit S20E-005 (tied to Water Licence S20L8-002) dated July 16, 2024, was completed by GNWT-ECC in this period
- Cleaning of the Edie Lake quarry
- Quantity survey of the Edie Lake quarry

i. 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

All work was conducted in compliance with the conditions of the Prohibition Creek Access Road Water Licence #S20L8-002 and all directives received from the Board.

j. A summary of actions taken to address concerns, non-conformances, or deficiencies in any reports filed by an inspector

No inspections of Water Licence S20L8-002 were completed during this period.

An inspection of Land Use Permit S20E-005 (tied to Water Licence S20L8-002) was completed by GNWT-ECC. No non-compliances were identified during this inspection, except the identification of a parked grader that did not have a drip tray placed underneath. This issue was addressed immediately. Regular communication between the Inspector and project staff has helped ensure that all conditions of the Land Use Permit were, and will continue to be, adhered to.

No unauthorized discharges occurred during the 2024 reporting period.

Muktimoy Paul
Muktimoy Paul, P. Eng
Senior Project Officer
Department of Infrastructure
Surface Design and Construction

Appendix A - Water Withdrawal Dates and Volumes

Date	Water Source	# of Loads	Total m³
No water withdrawal January, February, March, April, May, August, and September 2024	N/A	0	0
June 9, 2024	Mackenzie River	3	32
June 10, 2024	Mackenzie River	4	64
June 11, 2024	Mackenzie River	4	56
June 12, 2024	Mackenzie River	6	84
June 13, 2024	Mackenzie River	8	112
June 14, 2024	Mackenzie River	7	98
June 15, 2024	Mackenzie River	7	98
June 16, 2024	Mackenzie River	8	112
June 17, 2024	Mackenzie River	6	84
June 18, 2024	No water withdrawal	0	0
June 19, 2024	Mackenzie River	13	182
June 20, 2024	Mackenzie River	9	126
June 21, 2024	Mackenzie River	12	164
June 22, 2024	Mackenzie River	5	70
June 23, 2024	Mackenzie River	5	64
June 24, 2024	Mackenzie River	5	70
June 25, 2024	Mackenzie River	5	70
June 26, 2024	Mackenzie River	5	70
June 27, 2024	Mackenzie River	5	70
June 28, 2024	Mackenzie River	4	56
June 29, 2024	Mackenzie River	8	112
June 30, 2024	Mackenzie River	4	56
Sub Total, June		133	1850
July 1, 2024	Mackenzie River	3	32
July 6, 2024	Mackenzie River	3	32
July 10, 2024	Mackenzie River	3	32
Sub Total, July		9	96

Monthly Totals	# of loads	Total m³
June 2024	133	1850
July 2024	9	96
Total, 2024	142	1946