

Water Licence Annual Report

Line 21 Pipe Replacement at KP 158 near Little Smith Creek (Licence No. S20L1-001)

March 2021



Introduction

Enbridge Pipelines (NW) Inc. (“Enbridge”) completed work associated with an HDD and replaced a segment of the Line 21 pipeline near kilometer post (“KP”) 158 in the Northwest Territories (the Project) in 2021. Enbridge has prepared this Annual Water Licence Report to fulfill Condition 16 of Water Licence S20L1-001, granted by the Minister of Environment and Natural Resources in accordance with the *Mackenzie Valley Resource Management Act* and Northwest Territories (“NWT”) *Waters Act*.

Condition 16 in Part B of SAHTU Land and Water Board (“SLWB”) Water Licence S20L1-001 states:

Beginning March 31, 2021 and no later than every year after thereafter, the Licensee shall submit an Annual Water Licence Report to the Board and Inspector. The Report shall be in accordance with the requirements of Schedule 1, Condition 1:

Schedule 1: Annual Water Licence Report

	Condition	Rationale
1.	The Annual Water Licence Report referred to in Part B, Condition 16 of this Licence shall include, but not be limited to, the following information about the activities conducted during the previous calendar year:	<p>This condition sets out the information requirements for the Annual Water Licence Report. The list of information requirements will be customized to reflect the Licence conditions; it may not include all of these items, and/or may include additional, project-specific items that are not in this list.</p> <p>For the purpose of clarity and continuity of the public record for a project, annual reporting is still required for seasonal or temporary shut-down periods. The licensee should explain that no work was done during specific time periods or for the full year. If volume reporting is required (e.g., monthly or annual water use or waste deposit volumes) the Licensee should enter zero where appropriate.</p>
	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 15 of this Licence;	
	e) A summary of engagement activities conducted in accordance with the approved Engagement Plan , referred to in Part B, Condition 17 of this Licence;	
	f) A summary of how Traditional Knowledge was incorporated into decision making;	
	g) A summary of major maintenance activities conducted in accordance with this Licence;	
	h) A summary of activities conducted in accordance with the approved Waste Management Plan, referred to in Part F, Condition 3 of this Licence, including: <ul style="list-style-type: none"> i. A summary of approved updates or changes to the process or facilities required for the management of Waste; ii. A map depicting the location of the Sump; iii. Results of drilling waste tests and action taken; iv. Monthly and annual quantities, in cubic metres, of Drilling Wastes discharged to Sump or removed offsite; v. Monthly and annual quantities, in cubic metres, of Sewage and Greywater removed off-site and disposed of at an approved facility identified by disposal location; 	
	i) A summary of activities conducted in accordance with the approved Spill Contingency Plan , referred to in Part H, Condition 2 of this Licence, including: <ul style="list-style-type: none"> i. A list and description for all Unauthorized Discharges, including the date, NWT spill number, volume, location, summary of the circumstances and follow-up actions taken, and status (i.e. open or closed), in accordance with 	



	Condition	Rationale
	the reporting requirements in Part H, Condition 3 of this Licence; and	
	ii. An outline of any spill training carried out.	
	j) A summary of Progressive Reclamation activities conducted in accordance with the Closure and Reclamation Plan , referred to in Part I, Condition 1 of this Licence.	
	k) 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;	
	l) A summary of actions taken to address concerns, non-conformances, or deficiencies in any reports filed by an Inspector;	
	m) Any other details requested by the Board by December 31 of the year being reported.	

Brief Summary of Project Activities

a) A brief summary of Project activities;

Enbridge operates Line 21 which runs parallel to Little Smith Creek, approximately 67 km southeast of the Hamlet of Tulita. This area has been monitored for slope movement since 1985 and engineering assessments determined that preventative maintenance was required due to continued slope movement. To avoid any potential future impact to Line 21 from the encroaching bank of the creek, Enbridge replaced an approximately 515-metre segment of the pipe during January-March 2021.

Updated Project Schedule

b) An updated Project Schedule

Construction on the pipe replacement was completed March 4, 2021 and all equipment and materials were successfully demobilized. All final inspection was conducted by the GNWT Lands Inspectors on March 16, 2021 and no outstanding conditions exist. Enbridge is anticipating visiting the site again in June or July of 2021 to conduct the Year 1 Post Construction Environmental Monitoring.

Monthly Annual Quantities of Fresh Water

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;

Total volume of water used for this project was 4,114m³.

- i) December 2020 – 571 m³
- ii) January 2021 – 2981 m³
- iii) February 2021 – 562 m³
- iv) March 2021 – 0 m³

Summary of Calibration



d) A summary of the calibration and status of the meters and devices referred to in Part B, Condition 15 of this Licence;

The water truck contractor calibrated the volume based on the total amount the truck could haul based on the inboard flow meter – one load was equivalent to 16m³.

Engagement Activities

e) A summary of engagement activities conducted in accordance with the approved Engagement Plan, referred to in Part B, Condition 17 of this Licence;

Enbridge has engaged and continues to engage stakeholders and Indigenous groups identified in the engagement plan (2019) originally filed with the application. Those include:

- Tulita District Land Corporation
- Tulita District Benefits Corporation
- Norman Wells Land Corporation
- Tulita Land Corporation
- Fort Norman Metis Community
- Tulita Dene Band
- Tulita Renewable Resource Council
- Hamlet of Tulita
- Norman Wells Renewable Resource Council
- Town of Norman Wells

In 2020, there were challenges with conducting face-to-face engagement due to the COVID-19 pandemic. However, Enbridge engaged with communities virtually in the Sahtú region, in particular the Tulita District, on planned or actual project, as well as ongoing operations and maintenance work. Engagement occurred on a regular basis including through committee meetings, video and teleconferencing, email, and newsletters all with the goal of addressing any questions or concerns in a timely manner regarding maintenance work in the area.

Additional topics of discussion with stakeholders and Indigenous groups that occur throughout the year include Public Awareness and Safety, community investment and opportunities, economic inclusion and business opportunities, and an open dialogue to address any interests that arise.

At minimum, Enbridge plans to maintain a similar level of engagement and consultation in the Tulita District of the Sahtú Region. If there are any issues or concerns raised, Enbridge will work with local stakeholders to resolve them in a timely manner.

Summary of Traditional Knowledge Incorporated into Decision Making

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



Enbridge included a Traditional Knowledge report (from summer 2019) as part of the ESA submission (Environmental and Socio-Economic Assessment) and this information was used in the development of the Environmental Protection Plan.

Summary of Major Maintenance Activities

g) A summary of major maintenance activities conducted in accordance with this Licence;

No other activities other than what was listed in Condition a) of this report were conducted as part of this Water License.

Summary of Activities – Waste Management Plan

h) A summary of activities conducted in accordance with the approved Waste Management Plan, referred to in Part F, Condition 3 of this Licence, including:

- i. A summary of approved updates or changes to the process or facilities required for the management of Waste;**
- ii. A map depicting the location of the Sump;**
- iii. Results of drilling waste tests and action taken;**
- iv. Monthly and annual quantities, in cubic metres, of Drilling Wastes discharged to Sump or removed offsite;**
- v. Monthly and annual quantities, in cubic metres, of Sewage and Greywater removed off-site and disposed of at an approved facility identified by disposal location;**

Responses:

- i. No updates or changes were made to the original plan;
- ii. No sump was used;
- iii. The drilling mud was tested as per KBL Environmental's ("KBL") Yellowknife facility acceptance requirements. The drilling mud pH exceeded KBL's acceptance criteria, so the decision was made to ship the drilling mud to KBL's storage yard in Yellowknife. The drilling mud will then be hauled to an Alberta facility in the spring.
- iv. Total amount of drilling mud waste removed from site was 431 tonnes;
- v. Total amount of sewage water (including grey water) removed off-site was 1,271 m³.

Summary of Activities – Spill Contingency Plan

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

- i. A list and description for all Unauthorized Discharges, Including the date, NWT spill number, volume, location, summary of the circumstances and follow-up actions taken, and status (i.e. open or closed), in accordance with the**



- reporting requirements In Part H, Condition 3 of this Licence; and***
- ii. An outline of any spill training carried out.***

Responses:

- i. No unauthorized discharges or reportable spills occurred as part of the project;
- ii. Enbridge's spill response plan was reviewed during the Environmental training that occurred in the camp when all new employees were orientated. No other spill training exercises were conducted as part of this Project.

Summary of Progressive Reclamation Activities – Closure and Reclamation

- j) A summary of Progressive Reclamation activities conducted in accordance with the Closure and Reclamation Plan, referred to in Part I, Condition 1 of this Licence.***

The project site was fully reclaimed prior to demobilization on March 7, 2021. All topsoil was put back and any woody material was layered back over the disturbed area.

A site inspection is anticipated to occur in late June or July of 2021 to conduct post Construction Environmental Monitoring studies. Additional reclamation work may occur in the winter of 2021/2022 if the Post Construction Environmental Monitoring report identifies any additional site deficiencies.

Non-Compliance

- k) 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;***

An inspection was conducted on February 12th, 2021 by the GNWT Water Resource Officer and Wildlife Officer. The final inspection report from February 12th, 2021 has not yet been received by Enbridge and, therefore, cannot comment.

Summary of Actions

- l) A summary of actions taken to address concerns, non-conformances, or deficiencies in any reports filed by an Inspector;***

As noted above in k), the final inspection report from February 12th, 2021 has not yet been received by Enbridge and, therefore, cannot comment. No issues were identified in the final Lands Inspection report conducted March 16th, 2021.

Other

- m) Any other details requested by the Board by December 31 of the year being reported.***

No additional details were requested by the Board.