
PERMIT TO ALTER A BODY OF WATER

Pursuant to the *Water Resources Act*, SNL 2002 cW-4.01, specifically Section(s) 48

Date: **MARCH 31, 2021**

File No: **527**
Permit No: **ALT11686-2021**

Permit Holder: **Churchill Falls (Labrador) Corporation Limited**
12400 Hydro Place
St. John's, NL
A1B 4K7
JackieWells@nalcoreenergy.com

Attention: **Ms. Jackie Wells**

Re: **CF(L) Co. Transmission Line - Grace Lake River Bridge Replacement & Fording**

Permission is hereby given for : **the replacement and upgrades of an existing 23 metre steel bridge with one (1) - 26.4 metre steel bridge across Grace Lake River to provide access to the CF(L) Co. Transmission Line, in addition to the installation of one (1) fording site across an unnamed waterbody at location (52.141497N, 65.6407640W) in reference to the application received on March 10, 2021 and additional information received on March 23, 2021.**

- This Permit does not release the Permit Holder from the obligation to obtain appropriate approvals from other concerned municipal, provincial and federal agencies.
- The Permit Holder must obtain the approval of the Crown Lands Administration Division if the project is being carried out on Crown Land.
- This Permit is subject to the terms and conditions indicated in Appendices A and B (attached).
- It should be noted that prior to any significant changes in the design or installation of the proposed works, or in event of changes in ownership or management of the project, an amendment to this Permit must be obtained from the Department of Environment, Climate Change and Municipalities under Section 49 of the *Water Resources Act*.



(for) MINISTER

APPENDIX A
Terms and Conditions for Permit

Bridge Design

1. A 23.0 metre steel bridge may be replaced by one (1) - 26.4 metre steel bridge may be constructed across Grace Lake River to provide access CF(L) Co. Transmission Line.
2. The crossing structure must provide adequate capacity to safely discharge flood flows without causing backwater effects upstream or increased flow velocity downstream.
3. Piers must be designed to prevent failure resulting from scouring of streambed material.
4. The bridge(s) must have the following minimum dimensions:

Crossing Name / No.	Span (m)	Waterway Opening (m²)	Height Above Stream Bed (m)	Freeboard (m)
Grace Lake River	26.4	40	2.0	0.6

5. To safely convey peak flows the bridge(s) must be designed according to the following hydraulic criteria:

Crossing Name / No.	Design Return Period (years)	Minimum Flow Capacity (m³/s)	Maximum Flow Velocity (m/s)
Grace Lake River	50	0.5	4.99

Bridge Construction

6. The use of creosote treated wood is strictly prohibited within 15 metres of all bodies of fresh water in the province.
7. Drainage ditches must collect and transport surface runoff in a manner that does not cause flooding, erosion or sedimentation of adjacent land or receiving waters.
8. Bridge abutments must be set back 0.5 metres from the normal edge of a watercourse to prevent constriction during high flow conditions.
9. Infilling must not cause increased water elevation upstream or increase flow velocity downstream of the site. Reduction of the natural cross sectional area of any watercourse is not permitted.
10. The upstream and downstream sides of abutments must be protected with rip-rap, concrete or heavy timber to prevent erosion and scouring.
11. Where pumping is used to bypass flow, cofferdams must be installed both above and below areas of construction. The Permit Holder must provide pumps with sufficient capacity to prevent washout of cofferdams.
12. Cofferdams must be properly designed and constructed of suitable materials to prevent leakage and to resist loss of any material as a result of erosion. Cofferdams must be removed upon completion of their intended function. All material must be removed carefully to prevent disturbance of the water body and to prevent water quality degradation.

13. Abutments and piers must be constructed in the dry and during times of low flow.
14. Roadside embankments near the watercourse must be adequately protected from erosion by sodding, seeding or placing of rip-rap.
15. Adequate erosion protection must be provided where roadside ditches discharge into watercourses near bridges.

Fording

16. Except for single passenger all-terrain vehicles, crossings by other vehicles or construction equipment shall be limited to one trip in and one trip out.
17. Timbers or rocks shall be placed in streams to facilitate crossing or to minimize damage to the channel sections provided the streams are not unnecessarily constricted or backed up.
18. Alteration of the natural minimum streamflow is not permitted in order to preserve aquatic life.
19. Stream banks at fording sites that contain loose or erodible material must be adequately stabilized before crossing to minimize any siltation of streams.
20. The natural course of any stream must not be altered.
21. The fording sites must be located at shallow sections of the channels where there are low approach grades, and where the channels consists of stable non-erodible rock or cobbles.
22. Fording shall only be carried out during periods of low water levels.
23. When the fording sites are no longer required, the Permit Holder must dismantle and remove all constructed works and restore the sites to their original condition. All material placed in streams must be completely removed.
24. A complete oil spill clean-up kit must be on site at all times when gasoline or fuel powered equipment is being used or refuelled. The kit must contain the following:
 - One hand operated fuel pump
 - One recovery container such an empty 205 litre drum
 - One shovel
 - One pick axe
 - Five metres of containment boom
 - Five absorbent pads
 - Twenty-five litres of loose absorbent material
25. Within 30 days after expiry of this Permit, the Permit Holder must submit to the department a report confirming that each fording location was left in as good or better condition than prior to Permit Holder's fording activities. This report should include detailed pictures of each site before and after project activities.

26.

Stream Crossing	Description of Streambed	Amount of Vegetation	Channel Width (m)	Channel Depth (m)
Tributary of Grace Lake	Gravel/Cobble	None	4.0	0.5

General Alterations

27. Any work that must be performed below the high water mark must be carried out during a period of low water levels.
28. Any flowing or standing water must be diverted around work sites so that work is carried out in the dry.

29. Water pumped from excavations or work areas, or any runoff or effluent directed out of work sites, must have silt and turbidity removed by settling ponds, filtration, or other suitable treatment before discharging to a body of water. Effluent discharged into receiving waters must comply with the *Environmental Control Water and Sewage Regulations, 2003*.
30. All operations must be carried out in a manner that prevents damage to land, vegetation, and watercourses, and which prevents pollution of bodies of water.
31. The use of heavy equipment in streams or bodies of water is not permitted. The operation of heavy equipment must be confined to dry stable areas.
32. All vehicles and equipment must be clean and in good repair, free of mud and oil, or other harmful substances that could impair water quality.
33. During the construction of concrete components, formwork must be properly constructed to prevent any fresh concrete from entering a body of water. Dumping of concrete or washing of tools and equipment in any body of water is prohibited.
34. Wood preservatives such as penta, CCA or other such chemicals must not be applied to timber near a body of water. All treated wood or timber must be thoroughly dry before being brought to any work site and installed.
35. Any areas adversely affected by this project must be restored to a state that resembles local natural conditions. Further remedial measures to mitigate environmental impacts on water resources can and will be specified, if considered necessary in the opinion of this Department.
36. The bed, banks and floodplains of watercourses, or other vulnerable areas affected by this project, must be adequately protected from erosion by seeding, sodding or placing of rip-rap.
37. All waste materials resulting from this project must be disposed of at a site approved by the Department of Digital Government and Service NL.
38. Periodic maintenance such as painting, resurfacing, clearing of debris, or minor repairs, must be carried out without causing any physical disruption of any watercourse. Care must be taken to prevent spillage of pollutants into the water.
39. The owners of structures are responsible for any environmental damage resulting from dislodgement caused by wind, wave, ice action, or structural failure.
40. Sediment and erosion control measures must be installed before starting work. All control measures must be inspected regularly and any necessary repairs made if damage is discovered.
41. Fill material must be of good quality, free of fines or other substances including metals, organics, or chemicals that may be harmful to the receiving waters.
42. The attached Completion Report (Appendix C) for Permit No. 11686 must be completed and returned to this Department upon completion of the approved works. Pictures must be submitted along with the completion report, showing the project site prior to and after development.
43. This Permit is valid for two years from the date of issue. Work must be completed by that date or the application and approval procedure must be repeated.
44. The location of the work is highlighted on the Location Map for this Permit attached as Appendix D.
45. All work must be carried out within the Permit Holder's legal property boundaries.

APPENDIX B

Special Terms and Conditions for Permit

1. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall keep all systems and works in good condition and repair and in accordance with all laws, by-laws, directions, rules and regulations of any governmental authority. The Permit Holder or its agent(s), subcontractor(s), or consultant(s) shall immediately notify the Minister if any problem arises which may threaten the structural stability of the systems and works, endanger public safety and/or the environment or adversely affect others and/or any body of water either in or outside the said Project areas. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall be responsible for all damages suffered by the Minister and Government resulting from any defect in the systems and works, operational deficiencies/inadequacies, or structural failure.
2. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall operate the said Project and its systems and works in a manner which does not cause any water related and/or environmental problems, including but not limited to problems of erosion, deposition, flooding, and deterioration of water quality and groundwater depletion, in or outside the said Project areas. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) shall be responsible for any and all damages associated with these problems caused as a result of changes, deficiencies, and inadequacies in the operational procedures by the Permit Holder or its agent(s), subcontractor(s), or consultant(s).
3. If the Permit Holder or its agent(s), subcontractor(s), or consultant(s) fails to perform, fulfil, or observe any of the terms and conditions, or provisions of this Permit, as determined by this Department, the Minister may, without notice, amend, modify, suspend or cancel this Permit in accordance with the *Water Resources Act*.
4. The Permit Holder and its agent(s), subcontractor(s), and consultant(s) indemnify and hold the Minister and Government harmless against any and all liabilities, losses, claims, demands, damages or expenses including legal expenses of any nature whatsoever whether arising in tort, contract, statute, trust or otherwise resulting directly or indirectly from granting this Permit, systems and works in or outside the said Project areas, or any act or omission of the Permit Holder or its agent(s), subcontractor(s), or consultant(s) in or outside the said Project areas, or arising out of a breach or non-performance of any of the terms and conditions, or provisions of this Permit by the Permit Holder or its agent(s), subcontractor(s), or consultant(s).
5. This Permit is subject to all provisions of the *Water Resources Act* and any regulations in effect either at the date of this Permit or hereafter made pursuant thereto or any other relevant legislation enacted by the Province of Newfoundland and Labrador in the future.
6. This Permit shall be construed and interpreted in accordance with the laws of the Province of Newfoundland and Labrador.

cc: Amir Ali Khan, Ph.D., P.Eng.
Manager, Water Rights, Investigations and Modelling Section
Water Resources Management Division
Department of Environment, Climate Change and Municipalities
P.O. Box 8700
4th Floor, West Block, Confederation Building
St. John's, NL A1B 4J6
akhan@gov.nl.ca

cc: Jeff Bannister (Western and Labrador)
Western and Labrador Regional Lands Manager
Crown Lands Administration Division
Department of Fisheries, Forestry and Agriculture
JeffBannister@gov.nl.ca

cc: Fisheries Protection Division
Ecosystem Management Branch
Fisheries and Oceans Canada
P.O. Box 5667
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cc: Mark Bugden
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Executive Council
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cc: Mr. George Russell
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Happy Valley-Goose Bay, NL A0P 1C0
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cc: Mr. Larry Innes and Ms. Paula Reid
Innu Nation
P.O. Box 119
Sheshatshiu, NL A0P 1M0
preid@innu.ca; linnes@oktlaw.com

Appendix C - Completion Report

Pursuant to the *Water Resources Act*, SNL 2002 cW-4.01, specifically Section(s) 48

Date: **MARCH 31, 2021**

File No: 527
Permit No: ALT11686-2021

Permit Holder: **Churchill Falls (Labrador) Corporation Limited**
12400 Hydro Place
St. John's, NL
A1B 4K7
JackieWells@nalcoreenergy.com

Attention: **Ms. Jackie Wells**

Re: **CF(L) Co. Transmission Line - Grace Lake River Bridge Replacement & Fording**

Permission was given for : **the replacement and upgrades of an existing 23 metre steel bridge with one (1) - 26.4 metre steel bridge across Grace Lake River to provide access to the CF(L) Co. Transmission Line, in addition to the installation of one (1) fording site across an unnamed waterbody at location (52.141497N, 65.6407640W) in reference to the application received on March 10, 2021 and additional information received on March 23, 2021.**

I (the Permit Holder named above or agent authorized to represent the Permit Holder) do hereby certify that the project described above was completed in accordance with the plans and specifications submitted to the Department of Environment, Climate Change and Municipalities and that the work was carried out in strict compliance with the terms and conditions of the Permit issued for this project.

Date: _____ Signature: _____

This completion report must be completed and forwarded to the following address upon completion of the approved work.

Department of Environment, Climate Change and Municipalities
Water Resources Management Division
PO Box 8700
St. John's NL A1B 4J6

APPENDIX D
Location Map for Permit

