

PERMIT TO ALTER A BODY OF WATER

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

Date: **JANUARY 26, 2021**

File No: **522-02; 560-03**
Permit No: **ALT10758-2021**

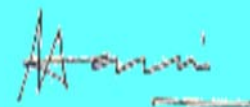
Permit Holder: **Department of Transportation and Infrastructure
5th Floor, West Block, Confederation Building
P.O. Box 8700
St. John's NL A1B 4J6
nickhiggins@gov.nl.ca**

Attention: **Nick Higgins**

Re: **Health Science Centre, St. John's (Leary's Brook) - Construction of berms and sidewalk
in the designated flood plain and infilling of wetlands**

Permission is hereby given for : **construction of north and south berms and sidewalk on a segment of the south berm in the designated flood plain of Leary's Brook for protecting Health Science Centre from flooding, and infilling of wetlands in the landside of the north berm in order to allow the construction of a new Adult Mental Health and Addictions Facility, with reference to the application dated October 21, 2019 and additional information received on October 24, October 28, November 6, November 7, November 8, 2019 and January 25, 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

Dyke/Berm Construction

1. The slopes along the perimeter of infilled areas, except the area with riprap, must be no steeper than two horizontal to one vertical (2H:1V).
2. The north and south berms and appurtenant structures may be constructed in the designated flood plain of Leary's Brook as shown on the location map attached as Appendix D.
3. The berm, sidewalk and appurtenant structures must be constructed as per the design and drawing specifications of CBCL No. 193007.00 dated July 2019.
4. Fill material must be obtained from an approved quarry site. It must not be taken from beaches or streams, and must not be dredged from a body of water.

Infilling

5. The slopes along the perimeter of infilled areas must be no steeper than two horizontal to one vertical (2H:1V).
6. The constructed works must be inspected regularly so that action can be taken to undertake repairs as required.
7. Fill material must be obtained from an approved quarry site. It must not be taken from beaches or streams, and must not be dredged from a body of water.
8. The natural course of any stream must not be altered.
9. Infilling must not disrupt the established surface drainage pattern of the area.
10. Before infilling, any vegetation and topsoil must be completely removed and under no circumstances shall it be used as fill material. Topsoil must be stored and reused in final landscaping of the infilled area.
11. The constructed works must comply with all other terms and conditions provided in the Crown Lands grant, lease, or license for occupancy.
12. Select heavy rocks must be placed along the toe of any infilling to provide slope stability and erosion protection.
13. All work must be carried out within the Permit Holder's legal property boundaries.

Flood Zone Development

14. The construction of berms and sidewalk, and infilling of wetlands are within the designated flood plain for Leary's Brook in the City of St. John's. This development, and future development at the site, must comply with this Department's policy directive for *Flood Plain Management W.R. 96-1*.
15. Any further development in the flood zone area not specifically covered by this permit will require a separate permit from this Division under Section 48 of the *Water Resources Act*.

16. The proposed use of the facility and site will not involve any storage of pollutants such as fuels, chemicals, pesticides, etc.

General Alterations

17. Any work that must be performed below the high water mark must be carried out during a period of low water levels.
18. Any flowing or standing water must be diverted around work sites so that work is carried out in the dry.
19. 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*.
20. 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.
21. 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. All waste materials resulting from this project must be disposed of at a site approved by the Department of Digital Government and Service NL.
28. 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.
29. The owners of structures are responsible for any environmental damage resulting from dislodgement caused by wind, wave, ice action, or structural failure.
30. 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.
31. 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.

32. The attached Completion Report (Appendix C) for Permit No. 10758 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.
33. 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.
34. The location of the work is highlighted on the Location Map for this Permit attached as Appendix D.

Special Conditions

35. The south berm is to be constructed the same time as the north berm to protect adjacent properties from any changes to the floodplain that occur as a result of the north berm.
36. In order for the berm to carry out its designed function of protecting provincial health care infrastructure in the vicinity of the Health Sciences Centre, the hydrologic function of the surrounding and adjacent wetlands must be preserved. Eastern Health shall not implement land development that further encroaches into these wetlands.

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: Eastern Lands Office
Fisheries & Land Resources
P.O. Box 8700
Howley Building, Higgins Line
St. John's NL A1B 4J6
easternlandsoffice@gov.nl.ca
- cc: Fisheries Protection Division
Ecosystem Management Branch
Fisheries and Oceans Canada
P.O. Box 5667
St. John's, NL A1C 5X1
FPP-NL@dfo-mpo.gc.ca
- cc: City of St. John's
Jason Sinyard, P.Eng.
Director of Planning & Development
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planning@stjohns.ca
- cc: Daniel J. Parsons
Regional Manager
Planning & Engineering Infrastructure Support
Eastern Health, 300 Prince Philip Drive
St. John's NL A1B 3V6
Daniel.Parsons@easternhealth.ca



Appendix C - Completion Report

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

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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

Infilling of wetlands and construction of berms and sidewalk at Health Science Centre

