

PERMIT TO ALTER A BODY OF WATER

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

Date: **OCTOBER 07, 2014**

File No: **526; 560-03**

Permit No: **ALT7487-2014**

Proponent: **Barrie Fowlow**

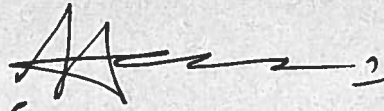
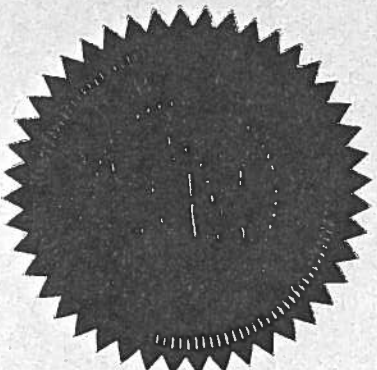


Attention: **Barrie Fowlow**

Re: **Stephenville and Kippens (Gaudon's Brook) - Placing of gabion baskets along the bank top of the Gaudon's Brook to protect property from flooding**

Permission is hereby given for : **the placing of 3.96m by 0.91m by 0.91m gabion baskets along the top of the bank of the Gaudon's Brook for a length of 42.7m at 2 West Street in the Town of Stephenville to protect the property from flooding, with reference to the application dated April 08, 2014 and additional information received on October 06, 2014.**

- This permit does not release the proponent from the obligation to obtain appropriate approvals from other concerned provincial, federal and municipal agencies.
- The proponent must obtain the approval of the Crown Lands Division of the Department of Environment and Conservation if the project is being carried out on Crown Land.
- This permit is subject to the terms and conditions indicated in Appendix A (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 and Conservation under Section 49 of the *Water Resources Act*.
- Failure to comply with the terms and conditions will render this permit null and void, place the proponent and their agent(s) in violation of the *Water Resources Act* and make the proponent responsible for taking any remedial measures as may be prescribed by this Department.



MINISTER

APPENDIX A
Terms and Conditions for Environmental Permit

Stephenville and Kippens (Gaudon's Brook) - Placing of gabion baskets along the bank top of the Gaudon's Brook to protect property from flooding

Special Conditions

1. The work must not prohibit, restrict or impede public access along the shoreline reservation.
2. If the work does prohibit, restrict or impede public access along the shoreline reservation than the proponent shall restore the reservation to the satisfaction of the Minister within 60 days of written notification. Failure to do so shall result in the Minister restoring the reservation and the cost of the restoration shall be recovered from the proponent as a debt due to the Crown.
3. The proponent must confirm the extent of private land by contacting Crown Lands, Lands Management Division (Western Region), prior to starting any construction activities.
4. All work must be carried out within the proponent's legal property boundaries.
5. The stream must not be re-located closer than 15 metre to the proponent's property boundary. This is to ensure that an adequate 15 m environmental buffer is maintained from the neighbours legal property boundary.
6. The house must be at minimum 10 metres from the edge of the stream and a vegetative buffer zone of 10 metres wide must be maintained in order to provide bank stability and maintain local aesthetics.
7. Any emergency work outside the scope of this permit must be discussed with the Water Resources Management Division to determine permitting requirements.

Flood Zone Development

8. The proponent's property is within the designated flood plain for the Gaudon's Brook. This development, and future development at the site, must comply with this Department's policy directive for *Flood Plain Management W.R. 96-1*.
9. 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*.
10. All structures and associated utilities must be designed and constructed in accordance with the flood proofing guidelines of this Department, including that the entrances and exits can be safely used in the event of a flood.
11. The structure shall not aggravate flood waters creating a worse flooding situation for other properties.

Shoreline Restoration

12. The slopes along the perimeter of infilled areas must be no steeper than two horizontal to one vertical (2H:1V).
13. The use of creosote treated wood is strictly prohibited within 15 metres of all bodies of fresh water in the province.
14. 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.
15. The natural course of any stream must not be altered.
16. 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.
17. Infilling must not disrupt the established surface drainage pattern of the area.
18. Removal of streambank vegetation or trees is not permitted. Overhanging brush that collects snow and blocks ice movement may be pruned and cut back to allow free flow of water.

19. The constructed works must comply with all other terms and conditions provided in the Crown Lands grant, lease, or license for occupancy.
20. Select heavy rocks must be placed along the toe of any infilling to provide slope stability and erosion protection.
21. To prevent erosion and to control sedimentation in drainage ditches with steep gradients, rock check dams must be installed at an interval such that the crest of each dam is level with the base of the one immediately above. The center of each dam must be lower than the sides.

General Alterations

22. Any flowing or standing water must be diverted around work sites so that work is carried out in the dry.
23. 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*.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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 the Department.
29. 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.
30. All waste materials resulting from this project must be disposed of at a site approved by the Department of Service NL.
31. 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.
32. The owners of structures are responsible for any environmental damage resulting from dislodgement caused by wind, wave, ice action, or structural failure.
33. 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.
34. 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.
35. The attached Completion Report (Appendix B) for Permit No. 7487 must be completed and returned to this Department upon completion of the approved works.
36. 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.
37. The location of the work is highlighted on the Location Map for this Permit attached as Appendix C.
38. Pictures must be submitted along with the completion report, showing the project site prior to and after development.

- cc: Dr. Amir Ali Khan, P. Eng.
Manager, Hydrologic Modelling Section
Water Resources Management
Environment and Conservation
P.O. Box 8700
4th Floor, West Block, Confederation Building
St. John's, NL A1B 4J8
- cc: File Copy for Binder
- cc: Mr. Jonathan Grandy
Manager, Crown Lands Western
Crown Lands Division
Dept. of Environment and Conservation
P.O. Box 2006
Corner Brook, NL
A2H 6J8
- cc: Fisheries Protection Division
Ecosystem Management Branch
Fisheries and Oceans Canada
P.O. Box 5667
St. John's NL A1C 5X1
- cc: Town of Kippens
Ms. Debbie Cormier
2 Juniper Avenue
Kippens, NL
A2N 3H8
- cc: Town of Stephenville
Ms. Carolyn Lidstone
PO Box 420
Stephenville, NL A2N 2Z5



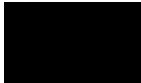
Appendix B - Completion Report

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

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Proponent: **Barrie Fowlow**



Attention: **Barrie Fowlow**

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I (the proponent named above or agent authorized to represent the proponent) do hereby certify that the project described above was completed in accordance with the plans and specifications submitted to the Department of Environment and Conservation 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 and Conservation
Water Resources Management Division
PO Box 8700
St. John's NL A1B 4J6

APPENDIX C
Location Map for Environmental Permit

