



Government of Newfoundland and Labrador  
**Department of Environment and Climate Change**  
**Water Resources Management Division**

## PERMIT TO CONSTRUCT

Pursuant to the *Water Resources Act*, SNL 2002 cW-4.01, specifically Section(s) 36, 37, 48

Date: **AUGUST 15, 2025** File No: **842.099.1**  
Permit Holder: **Town of Lark Harbour** Permit No: **WS14458-2025**  
**P.O. Box 40**  
**Lark Harbour NL A0L 1H0**  
**office@larkharbour.net**

Attention: **Ms. Nicola Parker**

Re: **Lark Harbour - Water and Sewer Phase 5 - Little Port Road**

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Permission is hereby given for : **the installation of a package mechanical secondary wastewater treatment system, 1590 m of 200 mm diameter PVC sanitary sewermain, 1546 m of 250 mm diameter PVC watermain, 80 m of 200 mm diameter PVC watermain, 60 m of 150 mm diameter PVC watermain and related works and appurtenances as shown on a set of revised drawings numbered 242034.00 (MI no. 17-MCW-25-00036), sheets C01 to C06 inclusive, D1 to D3 inclusive and E1 to E3 inclusive as received from Irvine Engineering on August 11, 2025.**

- 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 and Climate Change under Section 49 of the *Water Resources Act*.

(for) MINISTER

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR  
Department of Environment and Climate Change

File No: **842.099.1**  
Permit No: **WS14458-2025**

**APPENDIX A**  
**Terms and Conditions for Permit**

**Water & Sewer General**

1. 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*.
2. 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.
3. 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.
4. All waste materials resulting from this project must be disposed of at a site approved by the Department of Digital Government and Service NL.
5. The works proposed must satisfy the requirements of the latest applicable codes and standards, and be consistent with or otherwise address the design criteria set out in this Department's publication *Guidelines for the Design, Construction, and Operation of Water and Sewerage Systems, 2005*, and as amended from time to time.
6. The work must be undertaken in strict compliance with the submitted documents and the latest version of the *Municipal Water, Sewer and Roads Master Construction Specifications*. A copy of all documents, including the *Municipal Water, Sewer and Roads Master Construction Specifications* must be available for viewing at the construction site office at all times.
7. Liaison is to be maintained with the Environmental Scientist representing the Drinking Water and Wastewater Section of this Department, during the construction and operation of the project. They shall be notified of the pre-construction and post-construction meetings so that they may attend, if deemed necessary. They can be reached at telephone (709) 637-2034 .
8. Officials of this Department may visit the project from time to time to ensure that work is carried out within the provisions of this Permit, and is not creating any environmental hazard.
9. Any changes in the approved works, or works other than those specified in the application, must be submitted, in writing, to this Department, and approved, in the form of an Amendment to this Permit, prior to any work.
10. Copies of this Permit, as well as any subsequent Amendments, must be provided to the contractor(s) who will be carrying out these works, and to the engineer's site representative.
11. The attached Completion Report (Appendix C) for Permit No. 14458 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.
12. 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.

13. The drinking water and wastewater system shall be operated and maintained in accordance with the Permit to Operate issued by this Department.
14. Management of stormwater is the responsibility of the municipality or LSD. Stormwater management should focus on ensuring that the post-development stormwater runoff rate will be equal to or less than the pre-development runoff rate. Any stormwater runoff has the potential to contribute to flooding downstream which may have liability issues for the municipality or LSD if not managed properly.
15. The Owner must update any drawings maintained of the drinking water or wastewater system to reflect the modification or replacement of the works, where applicable.

### **Water & Sewer Installation**

16. Where the horizontal separation between watermains (including hydrant leads and drains) and gravity sanitary sewers is less than 3.0 metres, the watermain shall be laid in a separate trench, or on an undisturbed earth shelf located on one side of the sanitary sewer and at such an elevation that the invert of the watermain shall be a minimum of 450 mm above the crown of the sanitary sewer and 300 mm horizontally from the sanitary sewer measured edge to edge.
17. Watermains (including hydrant leads) crossing gravity sanitary sewers should be laid to provide a minimum vertical distance of 450 mm between the outside of the watermain and the outside of the sanitary sewer. This should be the case where the watermain is either above or below the sanitary sewer with preference to the watermain located above the sanitary sewer. At crossings, above or below, one full length of water pipe shall be located so both joints will be as far from the sanitary sewer as possible. Special structural support for the water and/or sewer pipes may be required.

### **Water Systems**

18. Under no circumstances shall sewage be permitted to enter the waterline trench during or after construction.
19. All new waterlines and appurtenances shall be hydrostatically tested in accordance with the *Municipal Water, Sewer and Roads Specifications*.
20. All components, lubricants and chemicals provided shall be compatible for use with drinking water and shall meet the requirements of ANSI/NSF 60 Drinking Water Treatment Chemical Standard and ANSI/NSF 61 Drinking Water and System Component Standard and any other standard applicable to potable water.
21. Buildings or homes to be connected to this system must have their private supplies permanently disconnected so as not to create a cross-connection with the town's water distribution system.
22. When crossing watercourses which are greater than 4.5 m in width, valves should be provided at both ends of water crossings so that the section can be isolated for testing or repair and the valves shall be easily accessible and not subject to flooding.
23. All new lines and appurtenances must be disinfected by an approved method described in the latest edition of the AWWA C651 Standard for Disinfecting Watermains and using only chlorine products that meet the NSF 60 standard.
24. After final flushing and before the new water main is commissioned into service, bacteriological sampling must be conducted as per the latest edition of the AWWA C651 Standard for Disinfecting Watermains. Two acceptable options are available: (1) two consecutive sets of bacteriological samples, taken at least 16 hours apart, must be collected and tested for bacteriological quality, or (2) following a 16 hour rest period two consecutive sets of samples, taken 15 minutes apart, must be collected and tested for bacteriological quality. Sets of samples shall be collected for every 366 m of new water main including the end of the main line and the end of each branch line. These sampling locations shall be determined by the engineer. **A copy of test results must be submitted to this Department (Water Resources Management Division) before the new watermain is placed into service.** In the event of any bacteria detected in the sample results, flushing and re-sampling may be attempted or the disinfection process will need to be repeated until results for two consecutive sets of samples are bacteria free. Where necessary, this Department should be contacted to determine provisions for the disposal of heavily chlorinated water.

25. For the purpose of disinfecting new or upgraded watermains, connection may only be made to the existing watermain provided a valve is installed that maintains a water tight seal. This valve may be operated to flush the new water extension before disinfection and post disinfection provided adequate measures and procedures are followed to avoid a backflow and contamination of the existing system.
26. Additional water services resulting from this project will not adversely affect the distribution system's ability to maintain a minimum pressure of 140 kPa (20 psi) at ground level at all points in the distribution system under maximum day demand plus fire flow conditions.
27. Wherever possible, water distribution system layouts should be designed to eliminate dead-end sections. Where dead-end mains cannot be avoided, they should be provided with a fire hydrant, blow off, or other acceptable measures taken to prevent problems associated with stagnation.

### **Sewer Systems**

28. Safety landings to be installed in all manholes over 5m in depth and in accordance with the Municipal Master Specification.
29. Storm water drainage, including roof drains, weeping tile drains, and street drainage, shall not be connected to the sanitary sewer system.
30. In the event that private or existing sewer lines are disturbed during construction, the lines are to be restored to their original *working* condition. Care shall be taken to ensure that soil or other material does not enter the lines to cause blockage.
31. Drop manholes must be provided for lateral sanitary sewers entering a manhole at an elevation of 600 mm or more above the manhole invert. Where the difference between the incoming sanitary sewer and the manhole invert is less than 600 mm, the invert should be filleted to prevent deposition of solids.
32. The flow channel through manholes should be made to conform in shape and slope to that of the sanitary sewer.
33. The direct connection of sanitary sewer service lines to manholes is prohibited unless the service enters at the flow line of the manhole. In this instance, filleting must be provided to prevent solids deposition.
34. All sanitary sewers shall be laid or covered with sufficient depth of suitable material to prevent frost penetration and damage from traffic loading.
35. Sanitary sewers entering or crossing streams shall be constructed of ductile iron pipe with mechanical joints, or similar construction to ensure watertight joints free from change in alignment or grade. Material used to backfill the trench shall be stone, coarse aggregate, washed gravel, or other materials which will not readily erode, cause siltation, damage pipe during placement, or corrode the pipe.

### **Miscellaneous**

36. The selected contractor must provide the town with a hard copy and a digital copy of the Operation and Maintenance Manual. A digital copy must be submitted to the Water Resources Management Division. The manual must include data for all major components of the plant/facility. The data must be for the particular units supplied and not a general description of units manufactured by the supplier.

### **General Alterations**

37. Any work that must be performed below the high water mark must be carried out during a period of low water levels.
38. Any flowing or standing water must be diverted around work sites so that work is carried out in the dry.
39. 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.

40. 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.
41. 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.
42. 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.
43. 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.
44. 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.
45. The owners of structures are responsible for any environmental damage resulting from dislodgement caused by wind, wave, ice action, or structural failure.
46. 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.
47. 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.
48. The location of the work is highlighted on the Location Map for this Permit attached as Appendix D.
49. All work must be carried out within the Permit Holder's legal property boundaries.
50. This licence/permit does not constitute an acknowledgement of interest in any land claims adjacent.

### **Fuel Storage**

51. All spills in excess of 70 litres shall be reported immediately to the 24 hour spill report line at 1-800-563-9089.
52. Refueling sites shall be located at least 30 metres from any water body or wetland.
53. The proponent is hereby informed that an application form for fuel storage must be obtained under the Storage and Handling of Gasoline and Associated Products Regulations, 2003.
54. 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 as 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

### **Pipe Crossing**

55. 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.
56. Completed pipe crossings must provide a minimum cover of 0.6 metres of stable compacted material sufficient to resist scouring and erosion. The finished surface cover must not extend above the original grade of the channel.

57. A temporary diversion channel adequate to convey flow without causing erosion or downstream siltation may be employed during construction of the stream crossing. After the installation is complete, all flow must be diverted back into the fully reinstated original channel. The temporary channel must be permanently closed to all flow, backfilled and the area must be restored to its original condition.
58. The installation of the water supply pipe must comply with the manufacturers specifications, particularly with regard to pipe zone bedding material, degree of compaction, and maximum - minimum pipe cover for design loadings.

### **Storm Drainage Works**

59. The 200mm diameter storm sewer outfall must be set back a minimum of 15 metres from the waters of the unnamed stream running into Bottle Cove.
60. 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.
61. Outside the scope of work outlined in this Permit, a minimum 15 metre wide vegetated buffer zone must be maintained along the edge of all waterbodies in order to provide bank stability, maintain local aesthetics and to help protect water quality.
62. Outfalls must be inspected regularly so that immediate action can be taken to clear blockages caused by ice or debris or to undertake repairs as required.
63. A water quality monitoring program is not required at this time. However, the Department reserves the right to require that the Permit Holder sample, analyse, and submit results of water quality tests, for the purpose of ensuring that the water quality is maintained within acceptable guidelines. All analyses must be undertaken by a CALA accredited laboratory.
64. Adequate erosion protection must be provided in the area where storm/sewer outfall discharges.
65. 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.

### **Wastewater Treatment**

66. Effluent from the wastewater treatment facility must meet the *Environmental Control Water and Sewage Regulations, 2003*.
67. Flow measurement facilities shall be provided on all wastewater treatment plants for monitoring of the final discharged effluent.
68. Emergency generators and fuel storage tanks must be approved by the Department of Digital Government and Service NL.
69. The Water Resources Management Division of this Department is to be informed prior to start-up or restart-up of the sewage treatment facility. Specifically, this Division must be given adequate notice of manufacturer's training sessions and demonstrations of all major components as well as full plant initiation so that a representative may be present.
70. The package wastewater treatment facility must be installed and commissioned in accordance with the manufacturer's instructions. This Department must be notified of commissioning training and start-up of the treatment facility.
71. Any wastewater treatment facility that is designed to collect or collects an average daily volume of 100m<sup>3</sup> or more of influent must adhere to the requirements of the federal *Wastewater Systems Effluent Regulations, 2012*.

### **Special Conditions**

72. The package wastewater treatment system shall be designed to treat an average daily flow of 85,000 L/day and a peak flow of 212,500 L/day and must be an approved wastewater treatment technology for use in Newfoundland and Labrador.
73. Once the package wastewater treatment system is operational, the Town shall collect grab samples of influent and effluent wastewater at the wastewater treatment system on a quarterly basis and have them analyzed at an accredited laboratory. The following parameters shall be included in the analysis: CBOD5, TSS, un-ionized ammonia, total phosphorus, Total Coliforms, E.coli, and pH. Results must be reported to the regional Environmental Scientist on a quarterly basis to waterandsewer@gov.nl.ca.
74. Upon completion of the construction phase of this project, pressure testing results must be submitted to the Water Resources Management Division. If the minimum pressure requirements for the water distribution system are not met, future infrastructure upgrades may be required, including the potential installation of a pressure boosting station. The proponent accepts that pressure testing results of below 20 psi will result in a partial Boil Water Advisory for the community.
75. Upon completion of the construction phase of this project, if operational challenges arise with the rock pit, the proponent shall be required to undertake a full reassessment and redesign of the rock pit and associated infrastructure. This requirement shall apply if there is any evidence of effluent ponding or insufficient dispersion of flow, compromising environmental compliance or operational efficiency. Any redesign must be completed in accordance with applicable engineering and environmental standards and submitted for regulatory review and approval prior to resuming or continuing operations.

GOVERNMENT OF NEWFOUNDLAND AND LABRADOR  
Department of Environment and Climate Change

File No: **842.099.1**  
Permit No: **WS14458-2025**

**APPENDIX B**  
**Special Terms and Conditions for Permit**

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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: Mr. Russell Murphy, P. Eng.  
Irvine Engineering  
158 Glencoe Drive, Unit 2  
Mont Pearl NL A1N 4S9  
[russell@irvineengineering.com](mailto:russell@irvineengineering.com)

cc: Mr. Jeff Pickett (Western and Labrador)  
Director  
Government Modernization and Service Delivery  
Sir Richard Squires Building  
PO Box 2006  
Corner Brook NL A2H 6J8  
[jeffpickett@gov.nl.ca](mailto:jeffpickett@gov.nl.ca)

cc: Fish and Fish Habitat Protection Program  
Aquatic Ecosystems Branch  
Fisheries and Oceans Canada  
P.O. Box 5667  
St. John's, NL A1C 5X1  
[dfo.fppnl-ppptnel.mpo@dfo-mpo.gc.ca](mailto:dfo.fppnl-ppptnel.mpo@dfo-mpo.gc.ca)

cc: Ms. Wendy Henstridge  
Municipal Infrastructure  
Department of Transportation and Infrastructure  
PO Box 2006  
Corner Brook NL A2H 6J8  
[wendyhenstridge@gov.nl.ca](mailto:wendyhenstridge@gov.nl.ca)

cc: Mr. Chris Blanchard, B.Tech.(Env), AScT  
Environmental Scientist  
Water Resources Management Division  
Department of Environment and Climate Change  
P.O. Box 2006  
Corner Brook, NL A2H 6J8  
[cblancha@gov.nl.ca](mailto:cblancha@gov.nl.ca)

cc: Ms. Paula Dawe, P.Eng.  
Manager, Water Rights, Investigations and Modelling Section  
Water Resources Management Division  
Department of Environment and Climate Change  
P.O. Box 8700  
4th Floor, West Block, Confederation Building  
St. John's, NL A1B 4J6  
[pauladawe@gov.nl.ca](mailto:pauladawe@gov.nl.ca)

cc: Ms. Deneen Spracklin, P.Eng.  
Manager, Drinking Water and Wastewater Section  
Water Resources Management Division  
Department of Environment and Climate Change  
P.O. Box 8700  
4th Floor, West Block, Confederation Building  
St. John's, NL A1B 4J6  
[dspracklin@gov.nl.ca](mailto:dspracklin@gov.nl.ca)



Government of Newfoundland and Labrador  
**Department of Environment and Climate Change**  
**Water Resources Management Division**

### Appendix C - Completion Report

Pursuant to the *Water Resources Act*, SNL 2002 cW-4.01, specifically Section(s) 36, 37, 48

Date: **AUGUST 15, 2025**

File No: **842.099.1**  
Permit No: **WS14458-2025**

Permit Holder: **Town of Lark Harbour**  
**P.O. Box 40**  
**Lark Harbour NL A0L 1H0**  
**office@larkharbour.net**

Attention: **Ms. Nicola Parker**

Re: **Lark Harbour - Water and Sewer Phase 5 - Little Port Road**

Permission was given for : **the installation of a package mechanical secondary wastewater treatment system, 1590 m of 200 mm diameter PVC sanitary sewermain, 1546 m of 250 mm diameter PVC watermain, 80 m of 200 mm diameter PVC watermain, 60 m of 150 mm diameter PVC watermain and related works and appurtenances as shown on a set of revised drawings numbered 242034.00 (MI no. 17-MCW-25-00036), sheets C01 to C06 inclusive, D1 to D3 inclusive and E1 to E3 inclusive as received from Irvine Engineering on August 11, 2025.**

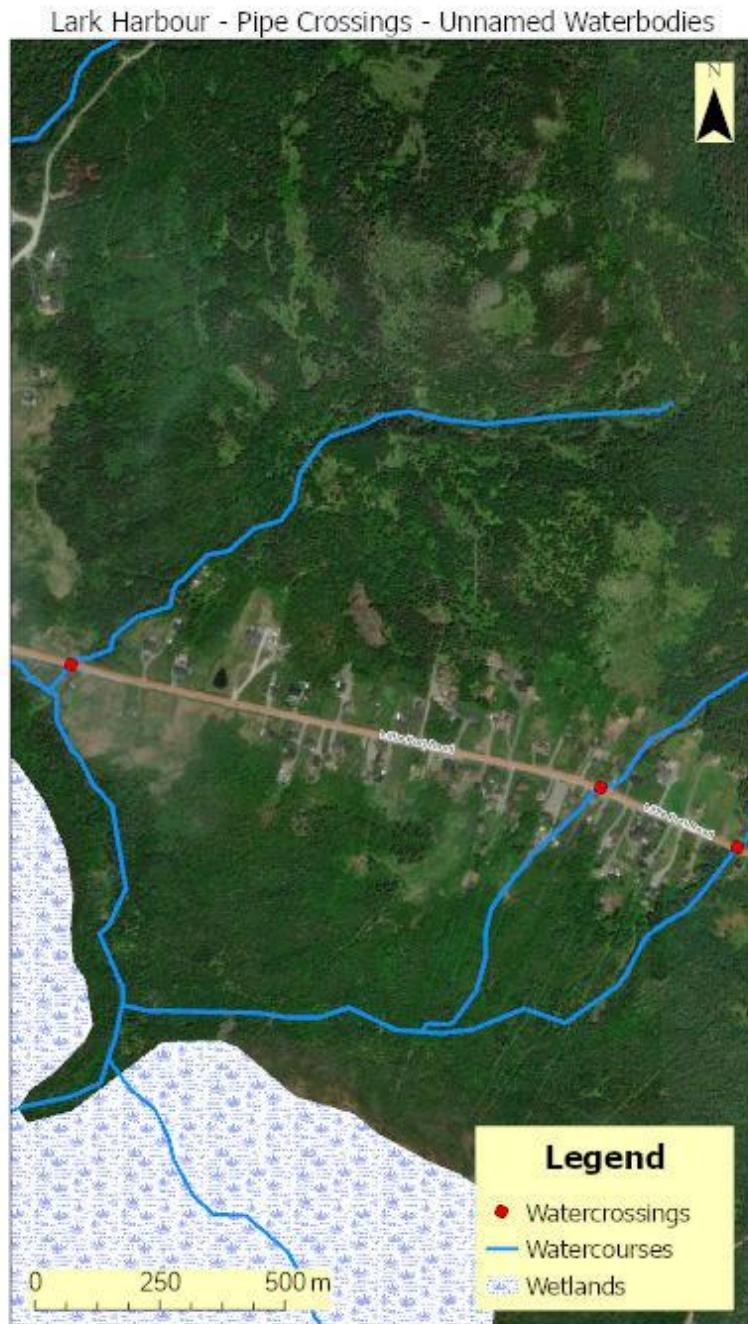
*I (the Permit Holder named above or agent authorized to represent the Permit Holder) do hereby certify that the project described above was completed in accordance with the plans and specifications submitted to the Department of Environment and Climate Change and that the work was carried out in strict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

**APPENDIX D**  
**Location Map for Permit**



**Second Attached Image File**

Lark Harbour (Unnamed Waterbody) - Outfall

