

## PERMIT TO CONSTRUCT

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

Date: **JULY 23, 2021**

File No: **842.070.1**  
Permit No: **WS11911-2021**

Permit Holder: **Town of Gillams  
166 North Shore Highway  
Gillams NL A2H 6B9  
townofgillams@nf.aibn.com**

Attention: **Ms. Shelly Penney**

Re: **Gillams - Wastewater Treatment System**

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Permission is hereby given for : **the installation of a package mechanical secondary wastewater treatment system and related works and appurtenances as described in a specification entitled "Town of Gillams, Sewer System Across Brook, Phase 1 and 2" as well as a set of revised drawings numbered 1087-19 (MI no. 17-GI-20-00031), sheets LP1,SP1,SP2,C1 and C2 as received from DMG Consulting Limited on June 14, 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 and Climate Change under Section 49 of the *Water Resources Act*.




(for) MINISTER

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

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**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. 11911 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. 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.

### **Wastewater Treatment**

15. Effluent from the wastewater treatment facility must meet the *Environmental Control Water and Sewage Regulations, 2003* and the federal *Wastewater Systems Effluent Regulations, 2012*.
16. There shall be no connection made to the water supply line within the treatment facility prior to the reduced pressure zone backflow preventer.
17. Flow measurement facilities shall be provided on all wastewater treatment plants for monitoring of the final discharged effluent.
18. The wastewater treatment plant shall be enclosed by a fence.
19. The wastewater treatment plant shall be equipped with adequate gas detectors.
20. Provision should be made for sampling at each supernatant draw-off level. An alternate disposal method for the supernatant liquor or hauling from the plant shall be provided in the case the supernatant is not suitable or other conditions make it advisable not to return it to the plant.
21. Emergency generators and fuel storage tanks must be approved by the Department of Digital Government and Service NL.
22. 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.
23. 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.
24. 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*.

### **General Alterations**

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

29. 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.
30. 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.
31. 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.
32. 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.
33. The owners of structures are responsible for any environmental damage resulting from dislodgement caused by wind, wave, ice action, or structural failure.
34. 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.
35. 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.

#### **Special Conditions**

36. The package wastewater treatment system shall be designed to treat an average daily flow of 24,000 L/day and a peak flow of 103,200 L/day, and must be an approved wastewater treatment technology for use in Newfoundland and Labrador.
37. Once the package wastewater 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](mailto:waterandsewer@gov.nl.ca).

**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. Dan Hynes, P. Eng.  
DMG Consulting Ltd.  
5 Union Street  
Corner Brook NL A2H 5M7  
dan.hynes@dmg.nf.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
- cc: Ms. Deneen Spracklin, P.Eng.  
Environmental Engineer, Drinking Water and Wastewater 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  
dspracklin@gov.nl.ca
- cc: Ms. Leah Burry  
Water Resources Tech II , Water Rights, Investigations & Modeling Section  
Water Resources Management Division  
Dept. Environment and Climate Change  
LeahBurry@gov.nl.ca
- cc: Mr. Chris Power, P. Eng.  
Regional Engineer, Western Regional Office  
Department of Transportation and Infrastructure  
6th Floor, Sir Richard Squires Building  
P.O. Box 2006  
Corner Brook, NL A2H 6J8  
ChrisPower@gov.nl.ca
- cc: Ms. Susan Hoddinott (Western/Labrador)  
Regional Director  
Digital Government and Service Newfoundland and Labrador  
PO Box 2006  
Corner Brook NL A2H 6J8  
SusanHoddinott@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: Amir Ali Khan, Ph.D., 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  
akhan@gov.nl.ca

### Appendix C - Completion Report

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

Date: **JULY 23, 2021**

File No: **842.070.1**

Permit No: **WS11911-2021**

Permit Holder: **Town of Gillams**  
**166 North Shore Highway**  
**Gillams NL A2H 6B9**  
**townofgillams@nf.aibn.com**

Attention: **Ms. Shelly Penney**

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Permission was given for : **the installation of a package mechanical secondary wastewater treatment system and related works and appurtenances as described in a specification entitled "Town of Gillams, Sewer System Across Brook, Phase 1 and 2" as well as a set of revised drawings numbered 1087-19 (MI no. 17-GI-20-00031), sheets LP1,SP1,SP2,C1 and C2 as received from DMG Consulting Limited on June 14, 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 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**

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