

## PERMIT TO CONSTRUCT

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

Date: **AUGUST 21, 2023**

File No: **842.138.1**  
Permit No: **WS13195-2023**

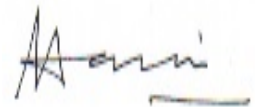
Permit Holder: **Town of Burnt Islands  
PO Box 39  
Burnt Islands NL A0M1B0  
townofburntisland@bellaliant.com**

Attention: **Ms. Roxanne Francis**

Re: **Burnt Islands - Potable Water Dispensing Unit**

Permission is hereby given for : **the installation of a Potable Water Dispensing Unit (PWDU) on the Long Lake water system whose process consists of a primary multi-media filter, an ozonation system, a secondary "nextsand" media filter, an activated carbon filter, a membrane filtration system, polishing using an activated carbon filter, a 1514 liter water storage tank, a cartridge filter, a UV disinfection system, and a bottle washing/dispensing unit as shown on a set of drawings numbered 17-GI-22-00049 as received from Cahill Technical Services Inc. and Gorman Engineering Ltd. on July 12, 2023 and additional information submitted on August 8, 10 & 11, 2023.**

- 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. 13195 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.

## Potable Water Dispensing Units

15. 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.
16. The potable water dispensing unit must be selected and designed in accordance with the latest version of the guidance document entitled "**Selection Criteria and Guidelines for the Design, Construction and Operation of Potable Water Dispensing Units**" issued by this Department.
17. The potable water dispensing unit must be operated in accordance with the manufacturer's recommendations and as directed in the "**Permit to Operate**" issued by this Department.
18. The potable water dispensing unit including all interior and exterior water piping, storage tanks including the finished water clear well, filter media and other receptacles and appurtenances must be disinfected by the following procedure: Operate potable water dispensing system at a normal flow rate with a maximum dose of ozone (above 20 mg/L) for one hour or until storage tank is completely filled. Add sufficient 12% hypochlorite to storage tank to provide a minimum 25 mg/L residual and let stand for 24 hours. Flush storage tank volume through dispensing taps to drain and have bacteriological samples taken by an Environmental Health Officer (Service NL) or a qualified technician from each tap and a second set of samples a minimum of 16 hours later. Both sets of samples obtained must show zero growth of total coliform and *E. coli* or the complete process is to be repeated until sampling results are compliant. System may then be placed into service.
19. The water treatment unit must be equipped with an ozone leak detection system which can notify town personnel of a leak. The door of the water treatment unit room must open outward and must be equipped with approved panic hardware. The water treatment unit room must be equipped with an emergency exhaust system capable of maintaining negative pressure to prevent ozone from entering the water dispensing station room. The emergency exhaust system shall exhaust to the outside to an area where it does not pose a health hazard to people or damage the environment.
20. A CSA approved backflow prevention device and air gaps shall be used on the water dispensing station's supply lines to prevent the possibility of contaminants entering the potable water system due to back-siphonage.
21. The storage tank's drain line and overflow shall not be directly connected to the building floor drain, but shall be separated from the floor drain by an appropriately sized air gap.
22. Sample taps shall be provided so that water samples can be obtained from the inlet water, various areas throughout the treatment process and the final treated water. Taps used shall be of the smooth-nosed type without interior or exterior threads and shall not have a screen, aerator or other such appurtenance.
23. After the commissioning of the potable water dispensing unit, the Town of Burnt Islands shall initiate a water quality monitoring program to confirm that the treatment unit is supplying water that meets the *Guidelines for Canadian Drinking Water Quality*. This monitoring program shall consist of a minimum of two sampling runs at times chosen by the town and must represent different changes in water quality. Samples shall be taken on the feed water, on the intermediate treated water and on the finished water. Samples shall be tested for RCAP-MS (total metals), total THMs, total HAAs, total coliform and *E. coli*. Additional sampling may be required by this Department prior to accepting the unit as a viable water treatment system. If the system cannot meet the *Guidelines for Canadian Drinking Water Quality*, then changes and additions to the process must be carried out to bring the unit in compliance.
24. Sampling results shall be submitted to this Department as they are received by the town.

**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. Mike Gorman, P. Eng.  
Gorman Engineering Ltd.  
11 Woodrow Avenue  
Corner Brook NL A2H 7V6  
mike@gormanengineering.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.  
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
- 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: Mr. Jeff Pickett (Western and Labrador)  
Director  
Digital Government and Service NL  
Sir Richard Squires Building  
PO Box 2006  
Corner Brook NL A2H 6J8  
jeffpickett@gov.nl.ca
- cc: Mr. Thomas Hayward  
Cahill Technical Services  
2-4 Southern Cross Road  
Mount Pearl, NL A1N 5A2  
thayward@cahill.ca

### Appendix C - Completion Report

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

Date: **AUGUST 21, 2023**

File No: **842.138.1**  
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Permit Holder: **Town of Burnt Islands  
PO Box 39  
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Attention: **Ms. Roxanne Francis**

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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 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