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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYIT
OFFICE DES EAUX DU NUNAVUT

APPLICATION FOR APPROVAL FOR THE USE OF WATER OR DEPOSIT OF WASTE WITHOUT A LICENCE

Refer to the *Guide to the Approval for the Use of Water or Deposit of Waste Without a Licence* (Guide) in completing this Application.

APPLICATION NO:
(for NWB use only)

1. APPLICANT CONTACT INFORMATION (name, address)

Anissa Merzouk
Amundsen Science, Université Laval, 1045 av. de la Médecine, room 3432, Quebec City, QC, G1V0A6, Canada

Phone: _____581-994-6356_____
Fax: _____418-656-2334_____
e-mail: anissa.merzouk@as.ulaval.ca ____

2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)

Phone: _____
Fax: _____
e-mail: _____
(Attach authorization letter)

3. NAME OF THE OWNER OF THE LAND THAT WILL BE USED IN RELATION TO THE WATER TO BE USED OR THE WASTE TO BE DEPOSITED

Inuit owned-land (Qikiqtani Inuit Association) and crown lands

4. NAME OF PROJECT (consistent with the name of the project issued by other regulatory agencies)

Amundsen Science annual expedition onboard the Canadian research icebreaker CCGS *Amundsen*

5. LOCATION OF UNDERTAKING

The CCGS *Amundsen* research icebreaker will conduct scientific operations in the Labrador Sea, Baffin Bay, Nares Strait, Jones Sound, the Queen Elizabeth Islands, and Greenlandic waters during the 2026 expedition. If time and weather conditions permit, a helicopter will be deployed to access remote glaciers and lakes.
Lake water and sediment sampling will support efforts to constrain the timing of deglaciation and sea-level change through marine and lacustrine sediment coring, combined with paleoclimate reconstruction. In parallel, sampling of glacier ice and meltwater will help research teams identify terrestrial CH_4 emission sites within glacier–fjord catchments, particularly those linked to glacial hydrological systems.
At each station, a maximum of 5 L of water will be collected, and time on site will be kept to a minimum. The table below outlines the priority and alternate stations that may be accessed during the 2026 expedition. In total, up to 18 glacier/geomorphology sites and 11 lakes are planned for sampling.

Project Extents (decimal degree format)

Terrestrial Sampling Sites - Geomorphology, Glaciers, Lakes, Rivers - Access with helicopter				
Region	**Station ID**	**Station Type**	**Latitude**	**Longitude**
Mittie Glacier	Mittie Glacier	Instrument recovery	76° 51.214'N	079° 06.195'W
Axel Heiberg Island	StrandGeo-1	Geomorphology	79° 20.584'N	094° 33.725'W
Axel Heiberg Island	StrandGeo-2	Geomorphology	79° 16.746'N	095° 02.048'W
Axel Heiberg Island	StrandLak-1	Lake	79° 22.342'N	094° 33.441'W
Axel Heiberg Island	StrandLak-2	Lake	79° 21.324'N	094° 41.082'W
Axel Heiberg Island	StrandLak-3	Lake	79° 21.404'N	093° 45.777'W
Axel Heiberg Island	StrandLak-4	Lake	79° 20.415'N	094° 03.875'W
Axel Heiberg Island	StrandGla-1	Glacier	79° 39.997'N	093° 33.379'W
Axel Heiberg Island	StrandGla-2	Glacier	79° 32.799'N	092° 56.823'W
Axel Heiberg Island	StrandGla-3	Glacier	79° 26.944'N	092° 26.734'W
Axel Heiberg Island	StrandGla-4	Glacier	79° 28.457'N	091° 52.666'W
Axel Heiberg Island	StrandGla-5	Glacier	79° 30.907'N	093° 16.572'W
Axel Heiberg Island	GoodFriGeo-3	Geomorphology	78° 35.410'N	093° 12.226'W
Axel Heiberg Island	GoodFriGeo-4	Geomorphology	78° 29.509'N	092° 43.866'W
Axel Heiberg Island	GoodFriLak-5	Lake	78° 37.617'N	092° 26.567'W
Axel Heiberg Island	GoodFriLak-6	Lake	78° 23.082'N	092° 28.594'W
Axel Heiberg Island	GoodFriLak-7	Lake	78° 21.510'N	092° 33.405'W
Axel Heiberg Island	GoodFriGla-6	Glacier	78° 34.251'N	091° 58.790'W
Alternative Terrestrial Sampling Sites				
Axel Heiberg Island	GlacierALTGeo-1	Geomorph	78° 09.662'N	089° 27.988'W
Axel Heiberg Island	GlacierALTLak-1	Lake	78° 12.401'N	089° 36.892'W
Axel Heiberg Island	GlacierALTGla-1	Glacier	78° 37.563'N	090° 08.370'W
Axel Heiberg Island	GlacierALTGla-2	Glacier	78° 30.893'N	090° 09.429'W
Axel Heiberg Island	GlacierALTGla-3	Glacier	78° 34.013'N	090° 09.619'W
Ellesmere Island	OttoALTGeo-1	Geomorph	81° 14.935'N	085° 57.998'W
Ellesmere Island	OttoALTGeo-2	Geomorph	81° 07.719'N	090° 12.251'W
Ellesmere Island	OttoALTLak-1	Lake	80° 49.756'N	088° 58.157'W
Ellesmere Island	OttoALTLak-2	Lake	81° 08.012'N	086° 23.746'W
Ellesmere Island	OttoALTLak-3	Lake	81° 14.966'N	085° 58.737'W
Ellesmere Island	OttoALTGla-3	Glacier	81° 17.971'N	086° 02.231'W

Camp Location(s) (decimal degree format)

No camp

Name of the Water Management Area in which the Undertaking is located. (Please see Appendix D of the Guide):

- Eastern Devon Island Watershed (only instrument recovery)
- Nansen and Eureka Sounds Watershed
- Sverdrup Islands Watershed
- Greely Fiord Watershed

6. Previous Approvals or Licences Associated with Undertaking ("Type A", "Type B" or Approval Without a Licence)

☐ **NA *or***

Previous Licence/Approval Number:_Approval without license # 8WLC-NWP2526

The Board reminds the Applicant that as stated in s. 46 of the NWNSRTA, the expiry or cancellation of any previous licence does not relieve the holder from any outstanding obligations imposed under the licence.

7. CLASSIFICATION OF UNDERTAKING - Indicate the classification of undertaking by checking one of the following boxes.

☐ Industrial
☐ Mining
☐ Conservation
☐ Municipal
☐ Agricultural
☐ Recreational
☐ Power
X Other: (describe)

See Appendix C of the Guide for descriptions of classifications of undertakings.

8. DESCRIPTION OF UNDERTAKING AND EQUIPMENT USED – Provide a brief description of the undertaking including a description of any equipment that will be used in using water or depositing waste.

Lake sampling: Lake sediment cores will be taken in triplicates at 3 lakes with a raft, platform and universal corer, which will be dropped by helicopter at the lakes. (Personnel transport by zodiac/helicopter, depending on the site and conditions of the day). Water sample will be collected with a syringe or a small pump (total volume: 5L max). All samples will be brought back on the ship, refrigerated or frozen, and analyzed in laboratories after the expedition. No chemicals will be used on the field, and no waste will be produced. These activities will require the use of small engines. All fuel used for these activities will be transported by the helicopter and brought back on the ship.

Glacier sampling: Field personnel will be dropped by zodiac or helicopter at land-terminating glacier fronts to sample glacial outflows and groundwater, targeting areas with perennial discharge that has already been identified by remote sensing. On-ice operations on the glaciers could include ice and melt water sampling. Ice would be collected with an ice corer, and meltwater would be collected with a syringe, a water bottle or a small pump.

9. **SCHEDULE** – Applicants are advised that approvals without a licence are issued for a one year term.

Proposed Start Date: ___10/07/2026___ (Day/Month/Year) Proposed Completion Date: _____25/11/2026___ (Day/Month/Year)

The period proposed here covers the whole 2026 Amundsen Expedition. Glacier and lake sampling would only take place during Leg 3 (3 September to 1 October).

10. **TYPE OF USE OF WATER WITHOUT A LICENCE PROPOSED -** Check the box that applies to the type of water use proposed. If none of the water uses listed below applies to the proposed water use, an application for a water licence will be required. See the NWB's *Guide 4 – Completing and Submitting a Water Licence Application for a New Licence*.

☐ For an undertaking other than a Power undertaking and for a use of water related to the construction of a structure across a watercourse that is less than 5 metres wide at the ordinary high water mark at the point of construction.

☐ For an undertaking other than a Power undertaking and for a use of water related to the training of an intermittent watercourse.

☐ For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that is less than 5 metres wide at the ordinary high water mark at the point of training.

☐ For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that involves the infilling of the watercourse, if the watercourse has no inflow or outflow and a surface area of less than 0.5 hectares.

☐ For an undertaking other than a Power undertaking and for a use of water related to the training of a watercourse that involves removal or placement of less than 100 m^3 of material.

☐ For an undertaking other than a Power undertaking and for a use of water related to the construction of a temporary structure in a watercourse for the purpose of flood control.

☐ For an undertaking other than a Power undertaking and for any use of water related to the storage of 2,500 m3 or less.

☒ For an undertaking other than a Power undertaking and for any use of water less than 50 m^3 per day.

11. QUANTITY AND QUALITY OF WATER INVOLVED - For each type of water use indicated in Block 10, provide the source of water, the estimated quantity to be used in cubic metres per day, and the periods during which water will be extracted.

Type of Water Use indicated in Block 10	Name of water source	Estimated quantity of water to be used in cubic metres per day	Periods during which water will be extracted
other than power undertaking, less than 50 m^3 per day	StrandGeo-1, StrandGeo-2, GoodFriGeo-3, GoodFriGeo-4	0,005 m^3 (5L)	Once between 3 September to 1 October 2026
Other than power undertaking, less than 50 m3 per day	StrandLak-1 to StrandLak-4, GoodFriLak-5 to GoodFriLak-7	0,005 m3 (5L)	Once between 3 September to 1 October 2026
Other than power undertaking, less than 50 m3 per day	StrandGla-1 to StrandGla-5, GoodFriGla-6	0,005 m3 (5L)	Once between 3 September to 1 October 2026

12. TYPE OF DEPOSIT OF WASTE PROPOSED - Check the box that applies to the type of deposit of waste proposed. If none of the deposits of waste listed below apply to the proposed deposit of waste, an application for a water licence will be required. See the NWB's *Guide 4 – Completing and Submitting a Water Licence Application for a New Licence*.

☐ For an Industrial undertaking, for an activity related to hydrostatic testing or cleaning of storage tanks and pipelines, and for any deposit of waste resulting from hydrostatic testing or cleaning of unused storage tanks or pipelines.

☐ For an Industrial undertaking, for an activity related to quarrying and gravel washing, and for any deposit of waste that is not deposited to surface water and that results from quarrying or gravel washing above the ordinary high water mark.

☐ For a Mining undertaking, for an activity related to exploratory work, any deposit of sewage to a sump.

☐ For a Power undertaking, any deposit of sewage to a sump.

☐ For an Agricultural undertaking, any deposit of sewage to a sump.

☐ For a Conservation undertaking, any deposit of sewage to a sump.

☐ For a Recreation undertaking, any deposit of sewage to a sump.

☐ For any Other type of undertaking not listed above, other than Municipal, any deposit of sewage to a sump.

13. QUANTITY AND QUALITY OF WASTE INVOLVED – For each type of waste indicated in Block 12, describe the quantity in cubic metres/day, measures to avoid or mitigate adverse impacts, and periods of deposition.

Type of Waste indicated in Block 12	Quantity to be deposited in cubic metres per day	Measures to avoid or mitigate any adverse impacts	Periods during which waste will be deposited
No deposit of waste			

14. SIGNATURE

I, _____Anissa Merzouk_____ (print name), certify that the information given on this form is, to the best of my knowledge, correct and complete.

☒Yes ☐ No

OR

I, _____ (print name), as an authorized representative of the Applicant, _____, certify that the information given on this form is, to the best of my knowledge, correct and complete.

☐ Yes ☐ No

I certify that the Nunavut Planning Commission's land use planning requirements under Article 11 of the Nunavut Land Claims Agreement have been met.

☒ Yes ☐ No

I certify that the Nunavut Impact Review Board's development impact review requirements under Article 12 of the NLCA have been met.

☒ Yes ☐ No

I certify that the proposed water use is of a type set out in column 2 of Schedule 2 of the Regulations that is further specified by column 3, in respect of an undertaking set out in column 1. See list in Block 10.

☒Yes ☐ NA ☐ No

I certify that the proposed deposit of waste is an activity that is set out and then further specified in columns 2 and 3 of Schedule 3 of the Regulations, in respect of an undertaking that is set out in column 1 of Schedule 3. See list in Block 12.

☐ Yes ☒ NA ☐ No

I certify that the proposed water use or deposit of waste will not substantially affect the quality, quantity or flow of the watercourse whose waters are used.

☒ Yes ☐ No

I certify that the proposed water use or deposit of waste will not substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Lands.

☒ Yes ☐ No

I certify that the proposed water use or deposit of waste will not affect the use of waters by a person who would be entitled to compensation under sections 58 or 60 of the *Nunavut Waters Nunavut Surface Rights Tribunal Act* (Act*)* if their use of these waters were to be adversely affected by an applicant for a licence.

☒ Yes ☐ No

I certify that a licence is not required for another use of water, or deposit of waste in respect of the proposed undertaking.

☒ Yes ☐ No

I have read and agree to comply with the following conditions outlined in sections 4(3), 5(4), 5(5) and 6 of the *Nunavut Waters Regulations*:

1. In the case of an applicant who has a mineral right and who intends to use waters or deposit waste in relation to that right, the applicant shall respect the priority conferred on Inuit by section 62 of the *Act* as if that applicant had a licence for the use or deposit.

2. Measures must be taken prior to using water to minimize any alteration to the bed or banks of a watercourse whose waters are to be used, and the measures shall be maintained during the operation of the undertaking.

3. No waste is to be deposited to surface water or within 31 metres of the ordinary high water mark of any body of water.

4. The waste shall not contain more than 15 milligrams per litre of petroleum or petroleum product and must not have a visible hydrocarbon sheen.

5. Prior to the closure or abandonment of the undertaking or end of the period authorized for the use of water or deposit of waste without a licence, whichever occurs first, the site shall be restored — to the extent practicable — to the state in which it was before the water was used or the waste was deposited.[a]

6. An applicant who is authorized under the Regulations to use waters or deposit waste without a licence shall:
    a. maintain accurate and detailed books and records of:
        i. the quantity of water, in cubic metres, used each day,
        ii. the quantity, in cubic metres, of waste deposited each day,
        iii. the type of waste deposited each day,
        iv. where the waste is deposited,
        v. the concentration of the substance, or substances, in the deposited solid or liquid that has the effect of making the deposit waste,
        vi. the methodology used to calculate or determine the information referred to in items (i) to (iv), and
        vii. the measures that were taken to avoid or mitigate any adverse impacts of the deposit of waste.
    b. keep the books and records on the site of the undertaking during the period of its operation and make them available during that period to an inspector on request;
    c. submit to the Board a report containing a summary description and supporting photographs of the restoration of the site of the undertaking within 30 days after the earliest of (i) the day on which the undertaking is closed or abandoned, and (ii) the last day of the period authorized for the use or deposit without a licence;[b] and
    d. keep the books and records for two years after submitting the report describing the restoration of the site of the undertaking.

    Notes:
    a) A site need not be restored prior to the end of the period authorized for the water use or deposit of waste without a licence, as required by Item 5, if the Board issues a licence for the use of water or deposit of waste on that site prior to the end of that period.

b) An applicant need not submit the report referred to in Item 6 (c), to the Board if the applicant obtains the Board's approval for a use of water or deposit of waste without a licence, or a licence for a use of water or deposit of waste, on the same site within thirty (30) days after the last day of the period authorized for the use or deposit.

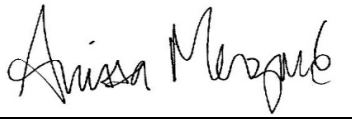
☒Yes ☐ No

I understand that any approval granted by the Board for the use of water or deposit of waste without a licence will be authorized for a period of one year after the day on which the Board approves the Application. The use or deposit is not authorized until the Board approves the Application and it is only valid as long as the applicant is in compliance with the conditions set out in the declaration above.

☒Yes ☐ No

I understand that if I have answered "No" to any of the above statements a water licence is required from the Nunavut Water Board prior to the use of water or deposit of waste.

☒ Yes ☐ No

Anissa Merzouk	Marine Research Coordinator		**01 mai 2026**
			Date