

P.O. Box 119

GJOA HAVEN, NU X0B 1J0 TEL: (867) 360-6338

FAX: (867) 360-6369

kNK5 wmoEp5 vtmp5 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 <u>Guide to the Approval for the Use of Water or Deposit of Waste Without a Licence</u> (Guide) in completing this Application.

APPLICATION NO: (for NWB use only)				
APPLICANT CONTACT INFORMATION (name, address)	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different from Block 1 (name, address)			
David Burgess				
Natural Resources Canada				
601 Booth Street Ottawa, Ontario	Phone:			
K1A 0E8	Phone: Fax: e-mail:			
Phone: 613-261-3602	(Attach authorization letter)			
Fax: 613-947-1385				
e-mail: david.burgess@nrcan-rncan-gc.ca				
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 Crown land				
4. NAME OF PROJECT (consistent with the name agencies)	of the project issued by other regulatory			
National Glaciology Project – Glacier Mass Balance in the	ne Queen Elizabeth Islands, NU & NT			

5.	LOCATION OF UNDER	RTAKING					
Project	Extents (decimal deg	ree format)					
Location	on Name	Co-ordinates		NTS Map Sheet #	Attached Map		
Agassiz	z Ice Cap	80.8167° N;	72.7500° W	340A	NTSAgassiz.jpg		
Meighe	n Ice Cap	79.9667° N;	99.1500° W	69H & 69G	NTSMeighen.jpg		
Grise F	iord	76.4167° N;	82.6833° W	049A	NTSGrise.jpg		
Devon I	lce Cap	75.3333° N;	82.1166° W	048H & 38G	NTSDevon.jpg		
Melville	Ice Cap	75.4500° N;	115.0500° W	88H	NTSMelville.jpg		
Camp I	Location(s) (decimal de	egree format)					
Camp I	Name	Co-ordinates	;				
	z Ice Cap	80.7856° N;	72.9829° W				
	n Ice Cap	79.9477° N;	99.1382° W				
Grise F		No camp; acc	ommodations in co	mmunity			
Devon I	lce Cap	75.6842° N;	83.2525° W	•			
Melville	Ice Cap	75.4626° N;	115.0374° W				
Na	of the Mateu Managemen		ial tha Hadantali	on to Longton (Disco-	and American Dest		
the Gui	of the Water Managemode):	ent Area in wh	iich the Undertakir	ig is located. (Please	see Appendix D of		
	on Name	Water Manag	ement Area				
	z Ice Cap		ern Ellesmere Islan	d Watershed			
	n Ice Cap	58. Sverdrup	Islands Watershed				
Grise F		64. South Elle	smere Island Wate	rshed			
Devon I	lce Cap	57. Eastern D	57. Eastern Devon Island Watershed				
Melville	Ice Cap	NT					
6.	Previous Approvals o	r l icences As	sociated with Und	ertaking ("Type A" "Ty	ne R" or		
0.	Approval Without a Lice		Sociated With Ond	creating (Type 71, Ty	,po B oi		
	□ NA or						
	Previous Licence/Approval Number: 8WLC-MBA2324						
	The Board reminds to	he Applicant t	hat as stated in s.	46 of the NWNSRTA	A, the expiry		
	or cancellation of any outstanding obligation			eve the holder from a	ny		
	outstanding obligation	на широзва и	nder the licerice.				
7.	CLASSIFICATION OF one of the following box		IG - Indicate the cla	ssification of undertakin	ng by checking		
	Industrial			Agricultural			
	Mining			Recreational			
	Conservation			Power			
	☐ Municipal			★Other: (describe)			
	Scientific Research: Long-term (up to 60 years) glacier monitoring sites maintained and operated by the National Glaciology Project, Natural Resources Canada, Ottawa.ON				ned and operated by		
	See Appendix C of the Guide for descriptions of classifications of undertakings.						
,	See Appendix C of the C	Juide IOI descr	ipuons oi ciassiilcat	ions 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.
versus balance since 1 Twin Cofield so while or remove use (i.e. product stakes deploye and so Devon helicop same of the fol Map_A Map_D	Ingoing project involves site visitation and field measurements of glacier mass balance (i.e. annual melt accumulation) on 3 ice caps and 1 glacier in Nunavut, plus 1 ice cap in NWT. The glacier mass be measurements obtained from this work provide a proxy record of climate change across this region 1960. Sites are visited annually between mid-March and mid-May. Access to the sites is via PCSP ofter charter flights and movements on the ground are by snowmobile. Site visits are performed by 2-3 cientists, who typically spend 2-3 days at each site (7-10 days at Devon Ice Cap). Accommodation on the ice caps is in tents, or small plywood huts. All camp materials, including solid wastes, are ed at the conclusion of site visits. Use of water at these temporary camps is exclusively for domestic e. melting snow for drinking, cooking, basic hygiene). None of our scientific equipment uses water or sees waste for disposal. Equipment used are shovel, snow probe, and ice drill for planting measurement in the ice to measure snow accumulation and ice melt. Small automated weather stations are red at each site to monitor annual climate variables. At some sites, GPS stations (powered by battery of lace Cap will require site visitation for maintenance in the summer of 2024. Site visits will be done by other by 2 field technicians, over the course of 2 days, and field technicians will stay overnight at the camp location on Devon Ice Cap that we use for our spring visits (coordinates noted above). Illowing maps are attached to provide details of work areas that are visited at each site: AgassizMB_network.pdf DevonMB_network.pdf
Map_N	MelvilleMB_network.pdf
9.	SCHEDULE – Applicants are advised that approvals without a licence are issued for a one year term.
	Proposed Start Date: _01/April/2024 Proposed Completion Date: _30/Aug/2024 (Day/Month/Year) (Day/Month/Year)
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 <u>Guide 4 – Completing and Submitting a Water Licence Application for a New Licence</u> .
	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.			
\boxtimes	For an undertaking other than a Power undertaking and for any use of water less than 50 m³ 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 <u>cubic metres per day</u> , and the periods during which water will be extracted.				
Type of Water Use indicated in Block 10 Name of water source Source Estimated quantity of water to be used in cubic metres per day Periods during which water will be extracted			which water will	
Potable water for domestic use (drinking, cooking, hygiene)		Surface snow	0.05 m³/day	Intermittently (up to 25 days) between: 1-April to 15-May And (up to 3 days) between Jun 1 – 30,. 2024
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 <u>Guide 4 – Completing and Submitting a Water Licence Application for a New Licence</u> .				
	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 and for any depo	undertaking, for an activity osit of waste that is not depo vel washing above the ordin	osited to surface water and	

	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	n undertaking, any depos	it of sewage to a sump.	
\boxtimes	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.				
	e of Waste ated 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
Sewag	ge	0.006 m ³ per day	Deposit in snow pits or glacier crevasse, or when feasible, solid waste may be bagged and backhauled to PCSP facilities for disposal.	Intermittently (up to 25 days) between: 1-April to 15-May And (up to 3 days) between 1- 30 Jun. 2024
Greyw	vater	0.002 m³ per day	Solid food particles can be filtered from waste water, and collected with domestic garbage for backhaul and disposal at PCSP facility. Greywater disposed of in snow pit sump.	Intermittently (up to 25 days) between: 1-April to 15-May (up to 3 days) between 1- 30 Jun. 2024
14.	SIGNATURE			
I,Da	avid Burgess	best of my knowledge, c		, certify that the information
g 3.1 01		× Yes	□ No	

OR			
l,		(print na	nme), as an authorized
representative of the Applicant,information given on this form is, to the	ne best of my know	vledge, correct ar	, certify that the
	x Yes		□No
I certify that the Nunavut Planning Co Nunavut Land Claims Agreement hav		ıse planning requ	irements under Article 11 of the
	× Yes		□No
I certify that the Nunavut Impact Revi of the NLCA have been met.	ew Board's develo	opment impact rev	view requirements under Article 12
	x Yes		□No
I certify that the proposed water use i further specified by column 3, in resp			
	x 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.			
	x 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 <u>Nunavut Waters Nunavut Surface Rights</u> <u>Tribunal Act</u> (Act) if their use of these waters were to be adversely affected by an applicant for a licence.			
	x Yes		□No
I certify that a licence is not required undertaking.	for another use of	water, or deposit	of waste in respect of the proposed
	x Yes		□No
I have read and agree to comply with the <i>Nunavut Waters Regulations</i> :	the following cond	ditions outlined in	sections 4(3), 5(4), 5(5) and 6 of

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 <i>Act</i> 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

- 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:

was before the water was used or the waste was deposited.^a

- 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,
- 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;
- 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; 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.

	x 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.			
	x 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.			
	x Yes	□No	

UNCLASSIFIED - NON CLASSIFIÉ

NUNAVUT WATER BOARD March 2015

David Burgess Research Scientist Nov 15, 2024

Name (Print) Title (Print) Signature Date