

P.O. Box 119 GJOA HAVEN, NU X0B 1J0 Tel.: (867) 360-6338 FAX: (867) 360-6369 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)					
1. APPLICANT CONTACT INFORMATION (name, address)	2. APPLICANT REPRESENTATIVE CONTACT INFORMATION if different				
Stephen Grasby	from Block 1 (name, address)				
Geological Survey of Canada 3303-33 rd St NW					
Calgary, Alberta, T2L 2A7					
Calgary, Alberta, 12L 2A7	Phone:				
Phone: 403-292-71111	Fav.				
Fax: 403-292-4961	e-mail:				
e-mail:steve.grasby@canada.ca	(Attach authorization letter)				
o maii. <u>otovo.grabby @oanada.oa</u>	(Allacin admonization lotter)				
3. NAME OF THE OWNER OF THE LAND THAT	WILL BE USED IN RELATION TO THE				
WATER TO BE USED OR THE WASTE TO B					
Government of Canada, Nunavut Territory					
4. NAME OF PROJECT (consistent with the name of the project issued by other regulatory agencies)					
High Arctic Large Igneous Province geological stud	v Aval Haihara and Ellasmara Island				
(HALIP)	y, Axel Helberg and Ellesillere Island				
(IIALII)					
5. LOCATION OF UNDERTAKING					
J. EGGATION OF UNDERTARING					
Project Extents (decimal degree format): Axel Heib	erg and Western Ellesmere Island within the				
bounding box:	3				
NW 81.5 N 96 W					
NE 81.5 N 84 W					
SE 78 N 84 W					
SW 78 N 96 W					

Camp Location(s) (decimal degree format)				
Arthaber Creek: N80.59;W095.47;2016-07-17 to 2016-07-24; 2 people Camp 5 Creek: N80.50;W094.63; 2016-07-10 to 2016-07-24; 2 people Hare Fiord: N81.01;W084.63; 2016-07-12 to 2016-07-16; 2 people Head Otto Fiord: N81.24;W084.60; 2016-07-08 to 2016-07-12; 2 people Ice River: 81.19;086.74;2016-07-03 to 2016-07-08; 2 people Middle Fiord: N79.75 W094.31; 2016-07-10 to 2016-17-21; 2 people Rens Fiord: N81.22 W093.33; 2016-07-14 to 2016-07-19; 2 people VanHauen Pass: N81.05 W85.38; 2016-07-16 to 2016-07-24; 2 people				
Name of the Water Management Area in which the Undertaking is located. (Please see Appendix D of the Guide):				
58. Sverdrup Islands Watershed 59. Nansen and Eureka sounds Watershed 60. Greely Fiord Watershed				
6. Previous Approvals or Licences Associated with Undertaking ("Type A", "Type B" or Approval Without a Licence)				
Approval Without a Licence was previously held for same project by Keith Dewing in 2015. Stephen Grasby is now leading this project component and applying here.				
X NA or				
Previous Licence/Approval Number: 8WLC-HIP1516				
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.				
 CLASSIFICATION OF UNDERTAKING - Indicate the classification of undertaking by checking one of the following boxes. 				
☐ Industrial ☐ Agricultural ☐ Mining ☐ Recreational ☐ Conservation ☐ Power ☐ Municipal ✓ Other: (describe) Research, scientific, geological				
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.				
The Federal Government's Geological Survey of Canada, through its Geo-Mapping for Energy and Minerals Program, is conducting a research project, the High Arctic Large Igneous Province Activity (HALIP) for the 2015 and 2016 summer field seasons. Most of the work would take place on Axel Heiberg Island and some on northern end of Ellesmere Island in 2016. The work will consist of six people in three camps of 2 people in each camp.				

It is expected that the 2016 fieldwork will take four weeks to complete. Several temporary 'fly camps' that will be used. Crews of two people will work out of each fly camp. Support will be from the Eureka weather station on Ellesmere Island. Fly camps will be set up by helicopter and researchers will remain in the camps for 5 to 10 days at each site and travel by foot. We will walk in traverses and pick up small, fist-sized surface rock samples every few meters for later laboratory analyses. Water for the camps will be taken from small creeks using a scoop. About 10 litres per person per day will be used to drink, cook and wash dishes. Garbage and solid waste will be removed to Eureka for disposal. Grey water and sewage will be disposed in a sump at least 100 m from a water body. The work being proposed in the HALIP project will allow us to better understand the geology of the region and assess the potential for gas and oil. While there is no indication of mineral deposits in the area, as part of a typical geological study, we will test for minerals during the analysis phase of the project but only from samples outside of the areas designated as recreational in the Draft Nunavut Land Use Plan. 9. **SCHEDULE** – Applicants are advised that approvals without a licence are issued for a one year term. 29 June, 2016 Proposed Completion Date: 30 July, 2016 Proposed Start Date: (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 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 m³ 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 m ³ per day.
11.	QUANTITY AND QUALITY OF WATER INVOLVED - For each type of water use indicated in

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</u> <u>day</u>, 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	
Less than 50 m ³ /day	Arthaber Creek	20 litres	2016-07-17 to 2016-07-24	
Less than 50 m³/day	Camp 5 Creek	20 litres	2016-07-10 to 2016-07-24	
Less than 50 m ³ /day	Unnamed creek, Hare Fiord	20 litres	2016-07-12 to 2016-07-16	
Less than 50 m³/day			2016-07-08 to 2016-07-12	
Less than 50 m ³ /day			2016-07-03 to 2016-07-08	
Less than 50 m ³ /day	Unnamed creek, Middle Fiord	20 litres	2016-07-10 to 2016-07-21	
Less than 50 Unnamed creek, m³/day Rens Fiord		20 litres	2016-07-14 to 2016-07-19	
Less than 50 Unnamed creek, wanHauen Pass		20 litres	2016-07-16 to 2016-07-24	

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 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 Po	wer undertaking, any deposit of	sewage to a sump.				
☐ For an A	For an Agricultural undertaking, any deposit of sewage to a sump.					
☐ For a Co	For a Conservation undertaking, any deposit of sewage to a sump.					
☐ For a Re	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.					
Block 12, d	Y AND QUALITY OF WASTE IN escribe the quantity in cubic met and periods of deposition.					
Type of Waste indicated in Block 12		Measures to avoid or mitigate any adverse impacts	Periods during which waste will be deposited			
Sump, Arthaber	20 litres		2016-07-17 to			
			2016-07-24			
Sump, Camp 5	20 litres		2016-07-10 to 2016-07-24			
Sump, Hare Fiord	20 litres		2016-07-12 to 2016-07-16			
Sump, Head Otto	20 litres		2016-07-08 to 2016-07-12			
Sump, Ice River	20 litres		2016-07-03 to			
			2016-07-08			
Sump, Middle Fior	d 20 litres		2016-07-10 to			
O Dana Fiana	00 litas s		2016-07-21			
Sump, Rens Fiord	20 litres		2016-07-14 to 2016-07-19			
Sump, VanHauen	20 litres		2016-07-19 2016-07-16 to			
Pass	20 iiiies		2016-07-10 to			
44 CIONATUE)					
14. SIGNATUF	(E					
I, <u>Stephen Grasby</u> knowledge, correct	_ (print name), certify that the in and complete.	formation given on this forn	n is, to the best of my			
	✓ Yes	□ No	0			
		OR				
I		(nrint 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			
	¥ 105			
I certify that the Nunavut Planning Co	ammission's land	use planning regu	iroments under Article 11 of the	
Nunavut Land Claims Agreement hav		use planning requ	mements under Article 11 of the	
Tranavar zana Glaime / igreement na	, o 500, mon			
	✓ Yes		□No	
I certify that the Nunavut Impact Revi of the NLCA have been met.	iew Board's devel	lopment impact re	view requirements under Article 12	
	V.			
	✓ Yes		□No	
I certify that the proposed water use further specified by column 3, in resp				
	✓ Yes	□NA	□No	
I certify that the proposed deposit of 2 and 3 of Schedule 3 of the Regulat Schedule 3. See list in Block 12.				
	✓ Yes	□NA	□No	
		_		
I certify that the proposed water use flow of the watercourse whose water		e will not substant	tially affect the quality, quantity or	
	✓ 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 <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.				
	✓ 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 <i>Nunavut Waters Regulations</i> :				
 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.				water to minimize any a be maintained during t		ed or banks of a watercours e undertaking.	e whose waters
3.	No waste	e is to be de	posited to surface	water or within 31 metr	es of the ordinary	high water mark of any boo	ly of water.
4.		te shall not o	contain more than	15 milligrams per litre c	f petroleum or pet	roleum product and must n	ot have a visible
5.	waste wi	thout a licer	ice, whichever occi			norized for the use of water ne extent practicable — to the	
6.	b. c.	maintain a i. ii. iii. iv. v. vi. vii. keep the b available of submit to t the site of abandone keep the b undertakin Notes: a) A site n without a l that site pu	accurate and details the quantity of water the quantity, in cube the type of waste downere the waste is the concentration of making the deposition of the measures that shooks and records of the Board a report of the undertaking with the different period to the different period to the go.	ed books and records of er, in cubic metres, use pic metres, of waste depleposited each day, deposited, of the substance, or substance, or substance, or substance and containing a summary of the prior to the period author for two years after subrular by ltem 5, if the Board at period. The substance of the under the period author for two years after subrular by ltem 5, if the Board at period. The substance of the under the period author for two years after subrular by ltem 5, if the Board at period.	of: d each day, cosited each day, estances, in the de ermine the informa mitigate any adve- taking during the past; description and su arliest of (i) the da ized for the use or nitting the report d period authorized issues a licence f o in Item 6 (c), to out a licence, or a	eposited solid or liquid that I stion referred to in items (i) the resemble of the deposit of the undertaking of the deposit without a licence, be scribing the restoration of the deposit without a licence of the deposit of the depo	nas the effect of to (iv), and of waste. nake them the restoration of the sit of the sit of waste sit of waste on btains the Board's r deposit of
			•	Yes		□No	
licence The us	will be a e or dep	authorized oosit is no	for a period of authorized un	one year after the	day on which ves the Applic	or deposit of waste we the Board approves to ation and it is only value above.	he Application.
			•	Yes		□No	
				o" to any of the abo of water or depos		s a water licence is red	quired from the
			•	Yes		□No	

Signature

20 Jan. 2016

Date

Research Scientist
Title (Print)

Stephen Grasby
Name (Print)