

P.O. Box 119 GJOA HAVEN, NU X0E 1J0

TEL: (867) 360-6338 FAX: (867) 360-6369 KATIMAYINGI

## kNK5 wmoEp5 vtmpq NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN

## WATER LICENCE APPLICATION FORM

Application for: (check one)				
New Amendment Renew	valAssignment			
LICENCE NO: (for NWB use only)				
1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE	2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)			
Philip Warren, PMP, P.Eng., Environmental Officer Defence Construction Canada Constitution Square, Suite 1720 350 Albert Street Ottawa, ON K1A 0K3  Phone: 613-998-7288 Fax: 613-998-0468 E-mail: Philip.Warren@dcc-cdc.gc.ca  As administered by: Eva Schulz, P.Ag., Environmental Scientist 2540 Kensington Road NW Calgary, AB T2N 3S3  Phone: 403-270-9220 Fax: 403-270-0399	Phone:			
E-Mail: Eva. Schul z@ uma.aecom.com				
<b>3. LOCATION OF UNDERTAKING</b> (describe and attach a topographical map, indicating the main components of the Undertaking)				
The FOX-3, Dewar Lakes DEW Line site is located in the central area of Baffin Island in the Nunavut Territory. The station is approximately 6 km north of Dewar Lakes, near which the airstrip was built.				
Latitude: 68°40'N Longitude: 71°14'W	NTS Map No37A_ Scale_1:50,000			
4. <b>DESCRIPTION OF UNDERTAKING</b> (attach plans and drawings)				
A multi-party team will conduct a site investigation on behalf of the Department of National Defence and Defence Construction Canada to collect data required to finalize design and logistics plans for the clean up of the FOX-3 site.				
Site Investigation activities include the following:  • Collection of soil samples to delineate known areas of contaminated soil. Subsurface samples will be collected from test pits excavated using a mini-excavator.				

- Collection of water samples, which may include both surface and groundwater samples. Temporary groundwater monitoring wells may be installed in test pits.
- Collection of structural material samples.
- Inventory of buildings and facilities on-site.
- Identification of surface debris areas.
- Geophysical survey of landfills to determine the lateral extent of buried waste.
- Identification of potential sources of granular material required for the clean up activities.
- Identification of potential locations of new landfills, storage areas, construction camp, etc. required during the clean up.
- Completion of topographic and location surveys.

## Post Investigation

- Upon completion of the investigation work, the site will be restored as follows:
- All excavated test pits will be backfilled.
- Laboratory waste will be containerized and stored (in an on-site building) for disposal during clean up.
- Camp facilities and equipment will be removed from the site. Excess fuels and laboratory wastes are labeled and stored in an on-site building for use or disposal during the site clean up.

man on site banding for use of disposar during the	e site crean up.				
<b>5. TYPE OF PRIMARY UNDERTAKING</b> (A for undertakings listed in <b>"bold"</b> )	A supplementary questionnaire <u>must</u> be submitted with the application				
Industrial	Agricultural				
Mining and Milling	Conservation				
Municipal (includes camps/lodges)	Recreational				
Power	Miscellaneous (includes exploration/drilling) (describe): A temporary camp will be established at the FOX-				
3 site to facilitate the site investigation activities.					
See Schedule II of Northwest Territories Waters Regu	ulations for Description of Undertakings				
6. WATER USE					
To obtain water	To divert a watercourse				
To modify the bed or bank of a watercourse	Flood control				
To alter the flow of , or store, water	Other (describe):				
To cross a watercourse					
7. QUANTITY OF WATER INVOLVED (cul returned to source)	bic metres per day including both quantity to be used and quality to be				
returned to source,					
	It is estimated that domestic water use for the site investigation will be up to 3000 litres/day. Water for the camp will be				
obtained from the water supply lake. No water will be returned to the source.					
<b>8. WASTE</b> (for each type of waste describe: condisposal, etc.)	mposition, quantity (cubic metres per day), methods of treatment and				
Sewage Waste oil					
✓ Solid Waste ✓ Greywater					
Hazardous Sludges					
Bulky Items/Scrap Metal Other (desc	cribe):				
Sewage generated by camp activities will be discharg	ged into pit toilets or incinerator toilets. Latrine wastes or residuals				

Sewage generated by camp activities will be discharged into pit toilets or incinerator toilets. Latrine wastes or residuals from the incinerator toilets will be buried on-site. Greywater will be discharged to a greywater pit located a minimum of 30

Locate the camp and storage areas

m from natural water bodies or drainage courses. The greywater pit will be backfilled prior to departure from the site. Non-hazardous combustible solid wastes will be incinerated on-site. Ash and residual wastes will be buried. Laboratory waste, non-combustibles and excess fuels will be packaged and stored in an on-site building, such as the warehouse or hangar, for use and/or disposal during the site clean up. Camp facilities and equipment will be removed from the site during demobilization.

demonization.					
9. PERSONS OR PROPERTIES location; attach if necessary)	AFFECTED BY THIS UNDERTAKIN	NG (give name, mailing address and			
Land Use Permit					
A land use permit has been applied for, be Regional Inuit Association	Yes No If no, date expected out has not yet been received. YesN/A_ No If no, date expected YesN/A_ No If no, date expected				
10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)					
NIRB Screening Yes No If no, date expected  The following Environmental Impact Summary Table provides the identified impacts associated with the site investigation activities at the FOX-3 site and the required mitigative actions.					
Description	Significance	Monitoring/Mitigation Requirements			
Degradation of permafrost due to test pit excavation.	Potentially significant in excavations in ice-rich ground.	Backfill excavation as soon as practical.			
Potential risks to soils, terrestrial and aquatic habitat and human safety from accidental events, such as fuel spills.	Potentially significant in the case of spillage.	<ul> <li>Development of and adherence to a contingency plan outlining procedures to follow in the event of an accidental spill, including secondary containment.</li> <li>Training and education of personnel in emergency</li> </ul>			
		procedures.  • Proper fuel handling and storage techniques.			
Disruption of heritage sites from test pit excavation and activities of on-site personnel.	Potentially significant on previously undisturbed areas.	<ul><li>procedures.</li><li>Proper fuel handling and storage</li></ul>			
pit excavation and activities of on-site		<ul> <li>Proper fuel handling and storage techniques.</li> <li>Report and record any features of potential interest, ensure areas are clearly marked.</li> <li>Monitor during excavation for additional features.</li> <li>All personnel to be discouraged from visiting archaeological and</li> </ul>			

Potentially significant in previously

Effect of camp operations on habitats,

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Use of local services and northern residents during implementation of site investigation activities.	Positive impact on northern socio- economic development.	on previously disturbed areas and at least 30 m from the nearest water body.  • Avoid locating the camp in areas containing archaeological/heritage features.  • Store camp kitchen waste in animal; proof containers to prevent scavenging by wildlife.  • Dispose of domestic garbage and sewage as required in the land use permit and water use license.  • Maximize employment and business opportunities in the North.		
11. INUIT WATER RIGHTS				
Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?  No  11. (Continued)  If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement has been made, how will compensation be determined?				
N/A				
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	CONTRACTORS (name, address and function of the site investigation have not			
The camp outfitter and transportation co		been offered for tender yet.		
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15.

PROPOSED TIME SCHEDULE

Effective January 1, 2004

_✓_ Annual (	(or) Multi Year		
Start Date: May	y 2006 Compl	oletion Date: September 2006	
Eva Schulz Name (Print)	Environmental Scientist Title (Print)	Signature J	January 5, 2006 Date
For Nunavut Water Board ( APPLICATION FEE	use only Amount: \$	_ Pay ID No.:	
WATER USE DEPOSIT	Amount: \$	_ Pay ID No.:	