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kNK5 wmoEp5 vtmpq NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN

WATER LICENCE APPLICATION FORM

Application for:				
✓_ New _	Amendment	Renewal	Assignment	
LICENCE NO: (for NWB use only)				
	D MAILING ADDRES NT/LICENSEE	S OF 2.	ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)	
Philip Warren, P.Eng., PMP, 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		Phoi	Phone: Fax: e-mail:	
As administered by: Eva Schulz, P.Ag., I 2540 Kensington Ro Calgary, AB T2N 3	Environmental Scientist oad NW			
Phone: 403-270-92: Fax: 403-270-03: E-Mail: Eva. Schul z	99			
3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of				
the Undertaking) The CAM-1 DEW Line site is located on the east central side of Jenny Lind Island in the Queen Maud Gulf in Nunavut, approximately 140 km southeast of the community of Cambridge Bay (Ikaluktutiak). Latitude: 68°40'N Longitude: 101°43'W NTS Map No. 67B Scale 1:50,000				
4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)				
The purpose of the project is to complete the environmental cleanup of the CAM-1 site. The main components of the cleanup include the following:				
 Demolition and removal of the existing site facilities; Closure and remediation of existing landfills; Construction of two new landfills for the disposal of contaminated soils and non-hazardous debris generated as a result 				

	·				
of the clean up;					
Excavation and either landfilling or treatment of contaminated soils;					
Removal of surface debris; and, Planical materials of the site of the si					
Physical restoration of the site to as natural a state as practical.					
A detailed Project Description of the work to be completed at CAM-1 is included with the application.					
5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application					
for undertakings listed in "bold")					
Industrial	Agricultural				
Mining and Milling	Conservation				
Municipal (includes camps/lodges)	Recreational				
Power	<u>✓</u> Miscellaneous (includes exploration/drilling)				
	(describe): Environmental clean up - please see Project				
	Description.				
See Schedule II of Northwest Territories Waters Regul	ations for Description of Undertakings				
6. WATER USE					
To obtain mater	To discort a sentangenous				
✓ 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): <u>See Project Description</u>				
To cross a watercourse					
7. QUANTITY OF WATER INVOLVED (cub	ic metres per day including both quantity to be used and quality to be				
returned to source)	ic metres per day incruding both quality to be used and quality to be				
	running the camp, including contractor use, will be 52,000 litres/day.				
	s/day, and construction use is estimated at 40,000 litres/day.				
	s, but typically includes dust suppression and granular material				
	er of winter water supply lake. The water will be pumped into a ransferred to a water storage tank at the Camp. As the contract for				
	is not available. No water will be returned to the source.				
• • • • • • • • • • • • • • • • • • • •	position, quantity (cubic metres per day), methods of treatment and				
disposal, etc.)					
✓ Sewage ✓ Waste oil					
✓ Solid Waste ✓ Greywater					
✓ Hazardous ✓ Sludges					
✓ Bulky Items/Scrap Metal Other (describe):					
As a minimum, the camp sewage will be directed to a t	wo-cell lagoon situated a minimum of 100 metres from the camp				
As a minimum, the camp sewage will be directed to a two-cell lagoon situated a minimum of 100 metres from the camp, any natural drainage course and water bodies that support aquatic life. The sewage lagoons will be sized to provide an					
individual capacity for 45 days of wastewater storage or one half of the duration of the construction season, whichever is					
less. The maximum fluid depth shall not exceed one metre. The sewage effluent will be tested prior to discharge for the					
following parameters: Biological Oxygen Demand, Total Suspended Solids, Oil & Grease; Ammonia and pH. Greywater from camp operations will also be discharged into the sewage lagoon. Domestic garbage will be incinerated in an enclosed					
container (typically a forced-air incinerator) and the residual waste buried in the Non-Hazardous Waste Landfill. All excess					
fuels, camp equipment and facilities will be removed from the site after completion of the clean up activities. Any					
hazardous wastes encountered during the clean up operations will be packaged and stored according to TDG Regulations					
prior to shipment to a southern disposal facility. Waste oil is included as hazardous waste.					
9. PERSONS OR PROPERTIES AFFECTED	RV THIS UNDERTAKING (give name, mailing address and				
9. PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)					

Land Use Permit				
DIAND A land use permit has been applied for, but has not yet been received. Regional Inuit Association Yes N/A No If no, date expected				
Commissioner YesN/A_ NoIf 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 Project Description will be submitted to NIRB, and is attached to the application. The Project Description provides a summary of the proposed construction, potential environmental impacts and proposed mitigation measures.				
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. (Continue d)				
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				
12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)				
The contract for the clean up work has not yet been tendered or awarded. Therefore, the names, addresses and functions of the contractors and sub-contractors involved in the clean up of the CAM-1 site are not available at this time.				
13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)				
During the radar upgrade program in the early 1990's, prior to the start of the DEW Line Clean Up, a number of environmental and engineering investigations were conducted at the DEW Line sites. The objectives of these studies were as follows:				
 To identify the nature and extent of chemical contamination at the sites; To determine the possible impact of these contaminants on the Arctic ecosystem in general and the food chain in particular; and To develop practical environmental clean up strategies appropriate for the Arctic. 				
See Section 2.5 in the Project Description for a list of the previous assessments and investigations.				
14. THE FOLLOWING DOCUMENTS <u>MUST</u> BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN				
Supplementary Questionnaire (where applicable: see section 5) ✓ Yes No If no, date expected				

Effective January 1, 2004

Inuktitut/English Summary of Project	✓ Yes No If no, date expected
Application fee \$30.00 (Payee Receiver General for Cana	da) Yes No If no, date expected
Water Use fee (see Section 9 of the NWT Waters Regulation	ions; Payee Receiver General for Canada) Yes No If no, date expected
15. PROPOSED TIME SCHEDULE	
_✓ Annual (or) Multi Year	
Start Date: June 2007 Complet	ion Date: October 2010
Eva Schulz Environmental Scientist Name (Print) Title (Print)	Signature February 28, 2006 Date
or Nunavut Water Board use only APPLICATION FEE Amount: \$	Pay ID No.:
VATER USE DEPOSIT Amount: \$	Pay ID No.: