

April 1, 2004 Project No.: FOX-4 (3.6)

VIA E-MAIL

Ms. Phyllis Beaulieu Licensing Administrator Nunavut Water Board P.O. Box 119 Gjoa Haven, NU X0B 1J0

Dear Ms. Beaulieu:

RE: Water Use Licence Application for the Re-Packaging of PCB Amended Painted Materials for Transport at the Former FOX-4, Cape Hooper DEW Line Site

UMA Engineering Ltd. is submitting the enclosed water use licence application for the repackaging of PCB Amended Painted Materials (PAP) currently in storage at the former FOX-4, Cape Hooper DEW Line Site. The materials require re-packaging to comply with Transport Canada guidelines, prior to transport from the site. The application is being submitted on behalf of Defence Construction Canada and the Department of National Defence.

We trust the information provided is sufficient for you to process the application. If you have any questions or comments, please do not hesitate to contact the undersigned at 403-270-9220.

Sincerely,

UMA ENGINEERING LTD.

Eva Schulz, P.Ag.

Environmental Scientist eschulz@umagroup.com

En El

Encl. Water Use Licence Application

Remote Camp Supplementary Questionnaire

Overall Site Plan Spill Contingency Plan

cc: Jim Wall, NWB Phil Warren, DCC

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

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

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WATER LICENCE APPLICATION FORM

Application for: (check one)				
New Amendment	✓ _Renewal	Assignment		
LICENCE NO: (for NWB use only)				
1. NAME AND MAILING APPLICANT/LICENSI Phillip Warren, Planning Officer Defence Construction Canada Ltd Constitution Square, Suite 1720 350 Albert Street Ottawa, Ontario K1A 0K3 Phone: 613-998-7288 Fax: 613-998-1061 e-mail: Phillip.Warren@dcc-cdc.g as administered by: Eva Schulz, P.Ag., Environmental 2540 Kensington Road NW UMA Engineering Ltd. Calgary, Alberta T2N 3S3 Phone: 403-270-9200 Fax: 403-270-0399 e-mail: eschulz@umagroup.com	EE gc.ca	2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable) Phone: Fax: e-mail:		
3. LOCATION OF UNDER the Undertaking)	RTAKING (describe and	d attach a topographical map, indicating the main components of		
The FOX-4, Cape Hooper				
Latitude: 68°26'N Longitude:	<u>66°44'W</u> NTS Ma	p No. 27B, Ekalugad Fiord Scale 1:250,000		
4. DESCRIPTION OF UNI	DERTAKING (attach p	lans and drawings)		
The purpose of the project is to reguidelines so the containers can be		e Temporary PCB Storage Area according to Transport Canada		
5. TYPE OF UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in "bold")				
Industrial	Remote/Tourism	Camps		

Mine Development Municipal				
Advanced Exploration Power				
Exploratory Drilling X Other (describe):				
A temporary camp is being set up to support the re-packaging activities.				
6. WATER USE				
To obtain waterTo 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 (litres per second, litres per day or cubic metres per year, including both quantity to be used and quality to be returned to source)				
It is estimated that the quantity of water to be used will be a maximum of 5000 litres/day. Water from the existing water supply lake will likely be pumped into a portable water tank. No water will be returned to the source.				
8. WASTE (for each type of waste describe: composition, quantity, methods of treatment and disposal, etc.)				
✓ Sewage Waste oil				
Solid Waste ✓ Greywater Hazardous Sludges				
Bulky Items/Scrap Metal Other (describe):				
Sewage from the camp will be deposited in a pit-toilet. Once work at the site is completed, the pits will be backfilled with granular material from the site. Greywater will be deposited into a sump and buried at the end of the program.				
 PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary) 				
Land Use Permit				
DIAND ✓ Yes No If no, date expected A Land Use Permit has been applied for, but not yet received. Regional Inuit Association Yes No If no, date expected				
Commissioner Yes 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.				

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	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					
12. CONTRACTORS AND SU	JB-CONTRACTORS (nam	ne, address and function	ons)		
Hazco Environmental Services Ltd. 13511 Vulcan Way Richmond, B.C. V6V 1K4					
Attn: Vijay S. Lanji					
Office Phone: (604) 214-7000 Office Fax: (604) 214-7017 E-mail: vlanji@hazco.com					
13. STUDIES UNDERTAKEN A full environmental clean up of the 14. THE FOLLOWING DOC REGULATORY PROCESS TO B	site was completed in 1998 CUMENTS MUST BE INC	. No further studies h			
Supplementary Questionnaire (where	e applicable: see section 5)	Yes No	If no, date expected		
Inuktitut/English Summary of Project	et	Yes ✓ No If	no, date expected		
Application fee \$30.00 (c/o of Receiver General for Canada) Yes ✓ No If no, date expected. Because the application is being submitted in behalf of a federal proponent, no application fees are required.					
15. PROPOSED TIME SCHE	DULE				
Annual (or) 🗸 Multi Yo	ear				
Start Date: August 2004	Comp	oletion Date:	October 2005		
Eva Schulz E	nvironmental Scientist	an al			
Name (Print) T	itle (Print)	Signature	Date		
For Nunavut Water Board use only APPLICATION FEE Amo	unt: \$ Recei	pt No.:			
VATER USE DEPOSIT Amo	unt: \$ Recei	pt No.:			



P.O. Box 119

GJOA HAVEN, NT X0E 1J0 kNK5 wmoEp5 vtmpq

TEL: (867) 360-6338

NUNAVUT WATER BOARD

FAX: (867) 360-6369 NUNAVUT IMALIRIYIN KATIMAYINGI

EXPLORATION/ REMOTE CAMP SUPPLEMENTARY QUESTIONNAIRE

Applic	cant: Defence Construction Canada Licence No:			
	(For NWB Use Only)			
ADMI	INISTRATIVE INFORMATION			
1.	Environmental Officer: <u>Phillip Warren</u> Tel: <u>613-998-7288</u> Fax: <u>613-998-1061</u> E-mail: <u>Phillip.Warren@dcc-cdc.gc.ca</u>			
2.	Project Manager: <u>Daniel Paquet</u> Tel: <u>613-998-9523</u> Fax: <u>613-998-1061</u> E-mail: <u>Daniel.Paquet@dcc-cdc.gc.ca</u>			
3.	Does the applicant hold the necessary property rights?			
A Land	d Use Permit from Indian and Northern Affairs Canada has been applied for.			
4.	Is the applicant an 'operator' for another company (i.e., the holder of the property rights)?			
N/A	If so, please provide letter of authorization.			
5.	Duration of the Project [X] Annual [] Multi Year: If Multi-Year indicate proposed schedule of on site activities Start:August 2004 Completion: October 2004			
CAMI	CLASSIFICATION			
6.	Type of Camp [] Mobile (self-propelled) [X] Temporary [] Seasonally Occupied: [] Permanent [] Other:			

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time? What will be the fluctuations in personnel?

7. What are the design population of the camp and the maximum population expected on site at one

The camp will be able to accommodate approximately 5-10 people for one week.

8. Provide history of the site if it has been used in the past.

The site was a former Distant Early Warning (DEW) Line site. The site underwent a full environmental clean up, which was completed in 1998.

CAMP LOCATION

9. Please describe proposed camp location in relation to biogeographical and geomorphological features, and water bodies.

The camp will be located adjacent to the Airstrip at the site.

10. How was the location of the camp selected? Was the site previously used? Was assistance from the Regional Inuit Association Land Manager sought? Include maps and/or aerial photographs.

The camp will be located in an area of previous disturbance to minimize damage to surrounding areas.

11.	Is the camp or any aspect of the project located on:			
	[✓] Crown Lands	Permit Number (s)/Expiry Date:		
	[] Commissioners Lands	Permit Number (s)/Expiry Date:		
	[] Inuit Owned Lands	Permit Number (s)/Expiry Date: _		
	. ,	() 1 ,		

A land use permit from Indian and Northern Affairs Canada has been applied for.

12. Closest Communities (distance in km):

The closest communities are Clyde River and Qikiqtarjuaq, located approximately 150 km from the site.

13. Has the proponent notified and consulted the nearby communities and potentially interested parties about the proposed work?

Information regarding the proposed work was discussed during community meetings held in Qikiqtarjuaq in 2003.

14. Will the project have impacts on traditional water use areas used by the nearby communities? Will the project have impacts on local fish and wildlife habitats?

There are no anticipated impacts on traditional water use by nearby communities nor the local fish and wildlife habitats.

PURPOSE OF THE CAMP

15.	☐ Mining ☐ Tourism (hunting, fishing, wildlife observation, adventure/expedition, etc.) (Omit questions # 16 to 21)
16.	✓ Other - (Omit questions # 16 to 22) □ Preliminary site visit □ Prospecting □ Geological mapping

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	 □ Geophysical survey □ Diamond drilling □ Reverse circulation drilling □ Evaluation Drilling/Bulk Sampling (also complete separate questionnaire)
	Other: N/A
	17. Type of deposit: □ Lead Zinc □ Diamond □ Gold □ Uranium □ Other:
	N/A
DRIL	LING INFORMATION
18.	Drilling Activities
	□ Drilling on ice N/A
19.	Describe what will be done with drill cuttings?
	N/A
20.	Describe what will be done with drill water?
	N/A
21.	List the brand names and constituents of the drill additives to be used? Includes MSDS sheets and provide confirmation that the additives are non-toxic and biodegradable.
	N/A
22.	Will any core testing be done on site? Describe.
	N/A

SPILL CONTINGENCY PLANNING

23. Does the proponent have a spill contingency plan in place? Please include for review. A spill contingency plan is attached to this application.

24. How many spill kits will be on site and where will they be located?

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The spill kit will be located within the camp and will consist, at minimum, of the following items:

- Absorbent, oil (7kg bag) 12
- Salvage drum (85 gal) 2
- Shovel -2
- Gloves, rubber lined 1 pair
- Wheelbarrow 1
- 25. Please describe the types, quantities, and method of storage of fuel and chemicals on site, and provide MSDS sheets.

This information can be provided by the Contractor once the schedule has been established.

WATER SUPPLY AND TREATMENT

26. Describe the location of water sources.

Commercially bottled water will be brought to site for human consumption. All other water will be obtained from the summer water supply lake.

27. Estimated demand (in L/day/person):

☐ Domestic Use:	(100 L/day)	<u>/person).</u> Water Source: <u>water supply lake</u>
☐ Drilling Units:	n/a	Water Source:
Other:	n/a	Water Source:

28. Describe water intake for camp operations? Is the water intake equipped with a mesh screen to prevent entrapment of fish? Describe:

Water is pumped into a holding tank on a trailer hitched to an ATV and transferred to the camp area. All water intake hoses are equipped with screens with a mesh size of 2.5 millimetres or less to prevent the intake of fish.

- 29. Will drinking water quality be monitored? What parameters will be analyzed and at what frequency? Because commercially bottled drinking water will be brought to site, drinking water will not be monitored.
- 30. Will drinking water be treated? How? N/A
- 31. Will water be stored on site?

Water will be stored at the camp in a mobile holding tank.

WASTE TREATMENT AND DISPOSAL

32. Describe the characteristics, quantities, treatment and disposal methods for:

☐ Camp Sewage (blackwater)

Sewage will be disposed of in a pit toilet and covered with granular material at completion of the work.

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Greyw	or any natural drainage course or water body.
	d Waste estic and other non-hazardous waste will be packaged and removed from the site.
	xy Items/Scrap Metal mp equipment will be removed from the site after the completion of the re-pack activities.
□ Was N/A	te Oil/Hazardous Waste
	oty Barrels/Fuel Drums mpty barrels from the re-pack activities will be removed from the site.
□ Oth	er:
N/A	
33.	Please describe incineration system if used on site. What types of wastes will be incinerated?
N/A	
34.	Where and how will non-combustible waste be disposed of? If in a municipality in Nunavut, has authorization been granted?
Non-c	combustible, non-hazardous solid wastes will be transported off-site.
35.	Describe location (relative to water bodies and camp facilities) dimensions and volume, and freeboard for sumps (if applicable).
N/A	
36.	Will leachate monitoring be done? What parameters will be sampled and analyzed, and at what frequency?

climate? What known O&M problems may occur? What contingency plans are in place?

Have the water supply and waste treatment and disposal methods been used and proven in cold

N/A

37.

OPERATION AND MAINTENANCE

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There are no known O&M problems at small camps of 1-2 week durations.

ABANDONMENT AND RESTORATION

38. Provide a detailed description of progressive and final abandonment and restoration activities at the site.

Site demobilization involves the removal of any and all camp equipment and materials no longer required at the site. The requirement for the contractor to undertake these activities is a contractual obligation written into the project specifications.

BASELINE DATA

39.		Has o	r will any baseline information be collected as part of this project? Provide bibliography.
			☐ Physical Environment (Landscape and Terrain, Air, Water, etc.)
			☐ Biological Environment (Vegetation, Wildlife, Birds, Fish and Other Aquatic Organisms,
			etc.)
			☐ Socio-Economic Environment (Archaeology, Land and Resources Use, Demographics,
			Social and Culture Patterns, etc.)
			□ Other:
-	4.		11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Baseline data was collected prior to the site clean up, which was completed in 1998. No further baseline information will be collected.

REGULATORY INFORMATION

- 40. Do you have a copy of
- ✓ Article 13 Nunavut Land Claims Agreement
- ✓ NWB Water Licensing in Nunavut Interim Procedures and Information Guide for Applicants
- ✓ NWB Interim Rules of Practice and Procedure for Public Hearings
- ✓ NWTWB Guidelines for the Discharge of Treated Municipal Wastewater in the NWT
- ✓ NWTWB Guidelines for Contingency Planning
- ✓ DFO Freshwater Intake End of Pipe Fish Screen Guideline Fisheries Act s.35
- ✓ RWED Environment Protection- Spill Contingency Regulations
- ✓ Canadian Drinking Water Quality Guidelines
- ✓ Public Health Act Camp Sanitation Regulations
- ✓ Public Health Act Water Supply Regulations
- ✓ Territorial Land Use Act and Regulations

You should consult the above document, guidelines, and legislation for compliance with existing regulatory requirements.

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1.1 FUEL AND HAZARDOUS MATERIAL SPILLS

- .1 The objective of the fuel-related contingency plan is to protect the environment and human health by minimizing the impacts of spill events through clear and concise instructions to all personnel.
- A small amount of fuel may be used during the re-packaging activities at FOX-4 for the equipment and camp. As fuels are usually stored and transferred in barrels of 205 litres or smaller capacity, any spill quantity would likely be small.
- .3 Transportation of fuels must comply with the *Transportation of Dangerous Goods*Act and Regulations.
- .4 The most common pollution incidents would probably involve spills of diesel or gasoline onto land resulting from: human error during transfer, rupture of barrels from deterioration or damage, seepage from fittings or valves, or equipment failure. Daily checking of equipment and preventative maintenance should also identify damage to the fuel system and reduce the risk of spills or leaks.
- .5 In the event of a spill, protection of human health and safety is paramount. Contamination of personnel involved in clean up is a real possibility as is contamination of the surrounding workplace and environment.

The individual discovering a spill shall:

- 1. Ensure personnel are appropriately trained.
- 2. Provide materials and equipment necessary for adequate response to fuel spills, such as excavators for creating earthen dykes and hydrocarbon absorbent booms.
- 3. Warn people in the immediate vicinity and evacuate the area if necessary.
- 4. Wear protective clothing as required for handling spills.
- 5. Isolate and eliminate all ignition sources.
- 6. Identify the spilled material if possible, and take all safety precautions before approaching it.
- 7. Attempt to immediately stop the leakage and contain the spill, if safe to do so.
- 8. Make every effort to contain the spill by dyking with earth or other barriers on land and containment booms on water.
- 9. Report to the Supervisor the spill location, type of material, volume and extent, status of spill (direction of movement), and prevailing meteorological conditions.

- 10. Follow all applicable federal/ territorial regulations and guidelines or the disposal of spill materials.
- 11. Document all events and actions taken. Include information required by applicable regulations and guidelines.
- 12. Notify appropriate government agencies using the contact list. Report spills immediately on the 24-Hour Spill Report Lone (867) 920-8130.

Table 1: Contact List

Resource	Location	Phone No.
24 Hour Spill Line	Nunavut/NWT	867-920-8130
Iqaluit Fire Department	Nunavut	867-979-4422
Environment Canada, Enforcement Branch	Head of Enforcement – Craig Broome	867-669-4730
Indian and Northern Affairs Canada	Director of Operations (Iqaluit) – Stephen Traynor	867-975-4546
Renewable Resources Officer Stations – Baffin Region	Iqaluit	867-979-5017
	Broughton Island	867-927-8966
	Hall Beach	867-928-8819
Department of National	Environmental Officer – Philip Warren	613-998-7288
Defence through the	Deputy Project Manager – Scott Munn	613-990-9641
contracting agency Defence Construction Canada	Project Manager – Daniel Paquet	613-998-9523
North Warning System Operations	Major A.D. Cameron	613-998-8602

