

April 3, 2002 File: 0171 120 (CAM-5) 3.8

Ms. Rita Becker Nunavut Water Board P.O. Box 119 Gjoa Haven, Nunavut X0B 1J0

Dear Ms. Becker:

## RE: Water Use License Application for the Site Investigation at CAM-5, Mackar Inlet

UMA Engineering Ltd. is pleased to submit the attached Water Use License Application for the upcoming site investigation at the CAM-5, Mackar Inlet DEW Line Site, on behalf of Defence Construction Canada. The application includes an abstract in English and Inuktitut, the application form, the remote camp supplemental questionnaire and supporting background information.

I trust that sufficient information has been provided to process this application. If you require any further information or clarification, please contact the undersigned at (403) 270 9207 or Eva Schulz at (403) 270 9220. Thank you for your consideration of this application.

Sincerely,

UMA ENGINEERING LTD.

Graham Emmerson, EIT

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gemmerson@umagroup.com

GJE:gje

Encl. Application for Water Use License Remote Camp Supplemental Questionnaire Abstract – English and Inuktitut

cc. Suzanne Belanger-Fontaine, DCC
Daniella Loock, ESG
Roland Merkosky/Michelle Rurka, UMA



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## WATER LICENCE APPLICATION FORM

Application	for: (check one)				
X New _	Amendment	Renewal	Assignn	ient	
APPLI Suzanne Belanger Environmental O Defence Construc	only) AND MAILING A <b>DD</b> F CANT/LICENSEE	Jp le, Tower B		RESS OF CORPORATE FICE IN CANADA (if applicabl	e)
Phone: <u>(613) 99</u> Fax: <u>(613) 99</u> e-mail: BELAN			Phone:Fax: e-mail:		
as administere Eva Schulz, P.A UMA Engineeri 2540 Kensingtor Calgary, Alberta Phone: (403) 270 Fax: (403) 270 0 e-mail: eschulz@	g. ng Ltd. n Road NW T2N 3 <b>S3</b> 0 9220 1399				
3. LOCAT Undertaking)	ΓΙΟΝ OF UNDERTAK	ING (describe a	nd attach a topograph	nical map, indicating the main cor	nponents of the
	Inlet Distant Early Warn ent provided in Appendix			reas and potential camp location p	rovided in Figure
Latitude: 1:50 000	68°45°N	Longitude:	109°04°W	NTS Map No47B07	Scale
4. DESCI	RIPTION OF UNDERT	AKING (attach	plans and drawings)		
	olves supplemental activiti on is provided in Appendi			on carried out in August 2000. A no	on-techincal

5. TYPE OF UNDERTAKING (A supplementary questionnaire must be submitted with the application for undertakings listed in "bold")						
Industrial X Remote/Tourism Camps - Conservation Activity Mine Development Municipal Advanced Exploration Power Exploratory Drilling X Other (describe): DEW Line Clean-Up Site Investigation						
6. WATER USE						
<ul> <li>X To obtain water To divert a watercourse Flood control To alter the flow of, or store, water Other (describe): To cross a watercourse</li> </ul>						
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 water requirements for the camp will be up to 5,000 litres/day. Water will be used for operation of the camp for drinking, washing, food preparation and in the on-site laboratory. As the contract for the camp outfitter has not been awarded at this time, details of the camp water system has not been determined. In other site investigations at similar sites, however, water has been pumped into a portable water tank or truck and hauled to camp. Greywater is discharged to the ground surface a minimum of 30 m from a natural water body or drainage course. No water is directly returned to the source.						
As the camp is likely to be re-established near the airstrip, it is anticipated that water will be obtained from the river adjacent to Borrow Area #2 (Figure 2, Appendix A).						
8. WASTE (for each type of waste describe: composition, quantity, methods of treatment and disposal, etc.)						
X Sewage Waste oilX Solid Waste X Greywater Hazardous Sludges Bulky Items/Scrap Metal Other (describe)						
Greywater will likely be disposed of in a greywater pit located at least 30 m from any water body or drainage course. The greywater pit will be backfilled prior to demobilization from the camp. Sewage will be buried on-site a minimum distance of 100 m from any water body or drainage course. Typically latrines are used during the site activities. Domestic garbage will be incinerated on site and the residuals will be buried with the sewage.  Following the investigation, all excess fuels, camp facilities, equipment and hazardous wastes generated by the investigation will be removed from site. Typically vehicles and equipment are serviced off site. Laboratory wastes, largely sample bottles, bags and plastic trowels, will be containerized and stored in the unheated vehicle storage at the airstrip or other DEW line facility for disposal during the subsequent clean-up activities.						

<ol> <li>PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary)</li> </ol>							
CAM-5, Mackar Inlet, was a remote DEW Line site closed during the North Warning System upgrades. There are no communities or settlements in the immediate vicinity of the site. The majority of site investigation activities will be carried out within the boundaries of the existing Department of National Defence reserve.							
Land Use Permit							
DIAND X Yes No If no, date expected							
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.) Please refer to the following: Site Investigation Project Description, Appendix B; Environmental Impact Summary Table, Appendix C; and Contingency Plans, Appendix D  NIRB Screening Yes No  If no, date expected NIRB Screening is currently undertaken for each DEW Line Site as part of the DEW Line Clean-Up Project and is not specifically performed for the site investigations preceding the site remediations.							
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?							
Site investigation activities are not expected to have any effect on waters flowing through Inuit Owned Lands.							
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)							
A list of contractors and subcontractors is not available at this time as the camp outfitter contract has not yet been offered for tender. A list of contractors and subcontractors can be provided after the Outfitter Contract has been awarded.							
13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)							
Appendix E contains reports related to baseline, socio-economic and environmental impact studies performed at the site by the DLCU team.							
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) X Yes No If no, date expected							
Inuktitut/English Summary of Project Yes No							

If no, date expected								
Application fee \$30.00 (c/o of Receive If no, date expected	er General for Canada) X	YesNo						
15. PROPOSED TIME SCHEDULE								
Annual (or) Multi Year								
Start Date: June 2002 Completion Date: September 2002								
Name (Print)	Title (Print)	Signature	Date					
For Nunavut Water Board use only APPLICATION FEE A	mount: \$Rec	eipt No.:						
WATER USE DEPOSIT A	mount: \$ Rec	eipt No.:	<b>国教工工程是</b> 《					