Summary addendum

NUNAVUT WATER BOARD - WATER LICENCE SUPPLEMENTAL INFORMATION CAM-F DEW LINE SITE CLEAN-UP PROJECT, SARCPA LAKE, NUNAVUT

Additional Information on Construction and Construction Camp Work

A water use application was forwarded to the Nunavut Water Board by Indian and Northern Affairs Canada on April 1, 2005 for the clean-up work of the CAM-F DEW Line site and associated construction camp. Both contracts have now been awarded to Biogenie S.R.D.C. (Clean-up) and Mikim Contracting Ltd. (Camp). Supplemental information to the original licence application is now available.

The following summary table cross-references the previous licence application with the supplemental information.

Summary Table: Supplemental Information and Modifications to the Water Use Application

Application Section	Mod.		Details of Modification or Addition	Document	Associated Section in the document
Description of Undertaking		х	Removal of barrels from the lakeshore and shallow water	WP cleanup Appendix iv	3.5 Borrow Site area location plan
7. Quantity of Water involved (Application)	x		Approximately 45 persons will use the camp during work season, plus occasional visitors using 225l/person/day. Plus up to 500,000 litres will be used for operational purposes.	WP camp WP cleanup	2.4.2.2 and 2.4.3 3.6
	^		Work season is estimated to last approximately 75 days per year. Season duration may vary depending on weather	WP cleanup WP camp	Appendix A 2.4
13 Studies Undertaken		х	Archaeological assessment found one tent ring well away from the project area. No further study was recommended	AIA	Appendix iii
			Historical Geotechnical report used as a reference in the design	GEO	Appendix iv
14 Propose Time Schedule	х		Completion date May 2008	WP cleanup	Appendix A
Questionnaire					
7. Camp Population			Approximately 45 persons will use the camp during work season, plus occasional visitors.	WP camp	2.4.3
	Х		Work season is estimated to last approximately 75 days per year. Season duration dependant on the weather	WP cleanup WP camp	Appendix A 2.4
9 & 10 Camp Location		х	Based on site observations the camp is located away from water bodies & drainage path, on firm ground	WP camp	2.3
13 Community consultation		Х	Hamlet council meeting and 2 site visits	WP cleanup	1.1 and 1.2.1
23, 24, 25 Spill contingency		х	Updated Spill Contingency Plan produced	WP cleanup	Section 4
24 Spill Kits		х	Table and Map provided	WP cleanup	Table II (p.28) and Figure 7 in Appendix H

Applica	ation Section	Mod.	Add.	Details o	f Modification or	Addition	Document	Associated Section in the document
25 Fuel Storage x		Details of storage provided, MSDS provided			WP cleanup	Section 2 and 5.5.1, & Fig. 4,5,6 Appendix G		
26 Water source x		Sarcpa Lake will be used			WP cleanup WP camp	3.6 2.4.2.2		
27 Water D	27 Water Demand x		See water usage table below			WP camp	2.4.2	
				Wa	ater Usage Break	down		
Usage Description & calculation		Water intake	Water dischar	ge				
					Treated throug	gh Biogreen system		nrough Biogenie waste atment system
					Grey water	Black water	Waste wa	iter
Camp	225L x 45 pe	ersons x	(75	759,375	455,638	227,800		
Asbestos abatment & equipment cleaning Barrel & heavy equipment		100,000			100,000			
	cleaning			150,000			150,000	
	Dust abatme Soil compact		oads	150,000 100,000				
	Total			1,259,375	455,638	227,800	250,000	

Associated Section in

Application Section	Mod.	Add.	Details of Modification or Addition	Document	Associated Section in the document
28 Pumping operation		х	Description of Water pumping/transport	WP camp WP cleanup	2.4.2 3.6
29 Water Monitoring		х	Water quality monitoring	WP camp	2.4.2.1
30 Water Treatment		х	Water Treatment See water usage table	WP camp	2.4.2
31 Water Storage		х	Water Treatment WP camp See water usage table		2.4.2
32 a Sewage	x		Wastewater treatment See water usage table	WP camp	2.4.6.1 and 2.4.6.2 and Figure 3 pg. 12 and Appendix C
32 b Grey Water	х		Wastewater treatment WP camp See water usage table		2.4.6.1 and 2.4.6.2
32 c, d Solid Waste & metals		х	Solid waste management Landfill design rational WP camp WP cleanup Supplemental		2.4.7 1.2.4.4 to 1.2.4.8 Appendix iv
32 e Waste Oil/HazWaste		х	Waste management	WP cleanup	1.2.4.8 and 3.2
32 f Empty Barrels		х	Management of barrels and content WP c		1.2.4.7 and 1.2.4.8
33 Incinerator		х	Incinerator description	WP camp	2.4.7 and Appendix D
34 Non combustible Waste		х	Disposal of non combustible waste WP camp WP cleanup		2.4.7 1.2.4.8
35 Dimensions of sumps		х	NA. No sump will be used.	WP camp	2.4.6.1 and 2.4.6.4
36 Monitoring Wells		х	Information on installation WP cleanup		1.2.4.15
37 Water and cold climate		х	Water & wastewater treatment units used in Saglek Labrador successfully WP camp 2.4		2.4.6.2 and
38 Abandonment		х	Final Cat-Train is scheduled for March 2008	WP cleanup	1.2.4.17 and Appendix A

Mod.: Modification to Information provided in the Application. Add.: Addition to information provided in the Application.

Summary Table Abbreviation for Report Names	Document Title	Document Location in the Supplemental information package
WP Clean-up	Site Restoration of Sarcpa Lake -Workplan	Appendix i
WP: Camp	Provision and Operation of a Construction Camp	Appendix ii
AIA Note: A translation of the summary is included in the appendix	Archaeological Impact Assessment, CAM-F DEW line Site Remediation Program (Permit 05-028A),	Appendix iii
Geo	Geotechnical Evaluation and Preliminary Design Clean-up of CAM-F Dew Line Site , Sarcpa Lake, N.W.T, EBA Engineering Consultants Ltd., Edmonton Alberta, December 1996.	Appendix iv

List of Tables and Figures

	List of Tables and Figures					
Location	Number	Title				
Summary		Summary Table: Supplemental information and modifications to				
Addendum		the 2005 Water Use Application				
WP; Clean-up	I	Disposal Scenarios for Contaminated Soil				
"	11	Spill Kit Description and Locations				
"	III	Possible Emergency Situations Identified for the project				
" Appendix A		Work Schedule				
" Appendix B		Equipment List				
" Appendix C	Fig. 1	Cat Train Route				
	Fig 2	Ice Road Section				
" Appendix D	Fig 3	Site Plan				
" Appendix D	Fig 4	Location of Water Processing and Temporary Storage Area				
" Appendix D	Fig. 5	Details, Waste Processing Area				
" Appendix G	Figure 6	Camp and Fuel Storage Location				
" Appendix G	Figure 7	Construction Layout- Fuel Storage Capacity				
" Appendix G	Figure8	Construction Layout –Camp Sewage System and Fuel Storage				
, ,		Location				
" Appendix H	Figure 7	Health and Safety Plan- Evacuation and Equipment Location				
		Plan				
" Appendix I		Spill Reporting and Response Procedures				
" Appendix J		Spill Report Form				
" Appendix K		Spill Emergency Contact List				
" Appendix K		Medical Emergency Response Procedures				
WP: Camp	Table I	Summary Schedule for major Activities				
"	Figure 1	Camp and Fuel Storage Location				
"	Figure 2	Construction Layout –Camp Sewage System and Fuel Storage				
		Location				
"	Figure 3	Detailed Drawing of Water Supply Intake Design and Installation				
"	Figure 4	Sarcpa Lake Sewage Discharge tile field				
"	Figure 5	Flow Chart of the BioGreen Wastewater Treatment System				
"	Table II	Wastewater Treatment Targets				
"	Figure 6	Sarcpa Lake Sewage Discharge Sump				
и	Figure 7	Sarcpa Lake Sewage Lagoons				
" Appendix A	i igai e i	Equipment Inventory				
" Appendix B	Table 1	Sarcpa Lake Water Chemical Analysis Results (with back-up)				
" Appendix C	Table 1	Aeration Tank Section View				
" Appendix D		Incinerator overview and details				
Archaeological	Figure 1	Location of CAM-F				
Impact Assessment	I iguic i	Esocution of G/ ((v))				
"	Figure 2	Project area				
u	Figure 3	Aerial view of Cam-F				
"	Figure 4	Field Reconnaissance Cam-F				
u	Figure 5	Location of Archaeological site relative to CAM-F facilities				
	i iguie 3	Legation of Afonacological site relative to OAIVI-1 Tacilities				
Appendix iv : Landfill design rational and project civil drawings	CO1	Location plan				

Location	Number	Title
"	CO2	Overall site plan/project layout
"	CO3	Station Area Site Plan
"	CO4	East Station Area Site Plan
"	CO5	Former Construction Camp Site Plan
«	CO6	Non-Hazardous Wastes Landfill Section and Detail
"	CO7	Secure Storage facility key trench Excavation plan and
		Grading/Instrumentation Plan
"	CO9	Contaminated Areas Sheet 1
"	CO10	Contaminated Areas Sheet 2
"	CO11	Contaminated Areas Sheet 3
"	CO12	Miscellaneous Details
"		Borrow Area Site Location Plan