

SCHEDULE C

(Subsection 5(1))

APPLICATION FOR LICENCE, AMENDMENT OF LICENCE, OR RENEWAL OF LICENCE

APPLICATION NO: N7L1-1836 (amendment or renewal only)	
4 NAME AND MAILING ADDRESS OF ADDLICANT	
1. NAME AND MAILING ADDRESS OF APPLICANT	
Mr. Ramy Rahbani, Project Manager	
237 Fourth Avenue S.W.	
P.O. Box 2480 Station 'M' Calgary, Alberta T2P 3M9	
TELEPHONE: <u>(587) 476-4262</u> FAX: <u>(403) 237-2237</u>	
2. ADDRESS OF HEAD OFFICE IN CANADA IF INCORPORATED	
Imperial Oil Resources Venture Limited	
237 Fourth Avenue S.W.	
Calgary, Alberta T2P 3M9	
TELEPHONE: <u>(587) 476-4262</u> FAX: <u>(403) 237-2237</u> 3. LOCATION OF UNDERTAKING	
A remediation project is being completed at the former BAR-C DEW Line / Imperial exploration base	located on
the southern tip of Richards Island (Tununuk Point) in the Mackenzie delta. The water withdrawal lo	cation is
from an unnamed lake located near the former Imperial camp on the southern tip of Richards Island.	
Latitude: 69.01237 N / 69° 0' 44" N Longitude: -134.68258 W / 134°	40' 57"
4. DESCRIPTION OF UNDERTAKING (describe and attach plans)	
This amendment application is intended to cover the removal of the BAR-C dock.	
In 2014, Imperial Oil Resources Ventures Limited (Imperial) initiated the cleanup and remediation of	the former
BAR-C DEW Line site and former exploration drilling and staging area at the southern tip of Richards	
as Tununuk Point (maps and figures of the dock location are included in attachments). This work is be	eing
conducted under existing approvals from the Inuvialuit Land Administration (ILA) under the Land Use	Permit

ILA14IQ011 and the Inuvialuit Water Board (IWB) Water License No. N7L1-1836.

As a result of discussions with the ILA it has been determined that the barge landing dock should be removed / dismantled. This activity is planned to take place in late summer 2015 with demolition of the sheet piling and associated metal tie-back structures. All steel materials and any contaminated soils will be removed offsite to appropriate landfills outside of the Northwest Territories. Reshaping of the shoreline will be completed to align with the natural surrounding area. The dock is approximately 67.5 m long by 30.5 m wide on the west and 22.5 m on the east.

Decommissioning of the dock will occur in stages and typically proceed from the downstream (i.e. east) to upstream (i.e. west) side using primarily land-based equipment such as a excavators, rock truck, front-end loader, and potentially a crane if required. Decommissioning tasks will generally include:

- Excavation of fill, storage, then use as backfill or treated/disposed off-site based on site remediation requirements.
- Removal of deadmen used for temporary repairs.
- Removal of bollards, cap plate, disconnecting of tie-rods and removal of associated hardware on the sheet piles.
- Removal of the main wall sheet piles.
- Disposal of steel sheet piles and associated hardware to an approved landfill.
- Reshaping of the shoreline area to closely match existing profile.

Imperial has advised and provided supporting information on the dock removal to the Environmental Impact
Screening Committee (EISC). The EISC has exempted the project. The Inuvialuit Land Administration (ILA),
Department of Fisheries and Oceans (DFO) and Transport Canada (TC) have been advised of the intended dock removal.

5. 1	TYPE OF UND	ERTAKING			
1.	Industrial	<u>X</u>	2.	Mining and Milling	
3.	Municipal		4.	Power	
5.	Agriculture		6.	Conservation	
7.	Recreation				
8.	Miscellaneo dock removal	US (describe) If require	d, water may be u	sed for the camp in suppo	ort of the BAR-C
6. V	WATER USE				
	X To obtain	in water			
	Flood co	ontrol			
	To cross	s a watercourse			
	To diver	rt water			
	To mod	ify the base or bank	of a watercours	se	
	To alter	the flow, or store, w	vater		
Oth	ner (describe)				
Dock	removal will resu	ult in restoration of the	river bank to appr	oximate pre-developmen	t conditions.
7. 0	QUALITY OF V	WATER INVOLVED	(litres per seco	nd, litres per day or c	ubic metres
p	er year, includi	ng both quantity to	be used and qu	ality to be returned to	source)
The va	st majority of the	earthworks (landfill ca	pping) was comple	ted in 2014 with 1158 m ³	of the allowable
				eded for 2015 as part of	
Remov	al of the dock wil	ll be completed after re	mediation work. I	Removal of the dock will e	extend the time tha
the car	mp barge will be a	at BAR-C by approximat	ely one month wh	ich could result in an add	itional 300 m³ beinį
neede	d based on daily o	camp use.			
المجاريطة	na tha daal rama	aval component the ve	luma of water cha	uld not overed the movim	امسم مسيما
		year, or 31 m³/day (ove		uld not exceed the maxim	lum amuai
allowa	iice 01 3,800 iii /)	real, of 31 III ruay (ove	i the 30 day seaso	1).	
No wa	ter is to be return	ed directly to the sour	e lake. Considerin	g the maximum volume o	<u>f water withdraw</u> al
the red	duction of the lak	e volume for one year v	vill be minimal.		
In 201	1 all wasteriets:	was transpopulated basis	طح مع بانستما م	towator tractmant alone	The same
		· · · · · · · · · · · · · · · · · · ·		tewater treatment plant	
				val. Should this manager n the camp will be requir	
				tor would again be requi	
		ent Plan prior to dischar		Hould again be requi	. ca to provide d

8. WASTE DEPOSITED (quantity, quality, treatment and disposal)

Wastewater will be generated by camp activities at approximately 80-95% of the daily usage of 10 m³/day.

All sewage generated in 2014 (756 m3) was sent to the Inuvik wastewater treatment plant. The same disposal method will again be used in 2015 for the barge-based camp.

Following completion of site restoration activities in summer 2015, demolition of the sheet pile dock will be completed. The sheet piles and associated tieback structures will be removed then disposed off-site. All contaminated soils will be removed offsite to appropriate waste disposal facilities outside of the Northwest Territories. A more detailed dock removal execution plan is included in the provided Project Detailed Report (PDR).

9. OTHER PERSONS PROPERTIES AFFECTED BY THIS UNDERAKING (give names, mailing address and location; attach list if necessary)

The Site is located on Inuvialuit 7(1) (A) private land within the Inuvialuit Settlement Region (ISR).

Inuvialuit Land Administration

Bag Service #21

Inuvik, NT, X0E 0T0

Attention: Mike Harlow, Chief Land Administrator

10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSSED MITIGATION

Mitigation measures will be incorporated into the dock removal. No residual impacts to surface water quality are expected from the dock removal.

A more detailed dock removal execution plan has also been provided.

A Request for Review has been submitted to the Department of Fisheries and Oceans (DFO).

Predicted and potential environmental impacts will be dealt with in accordance with applicable governing laws, environmental policy, and in accordance with the Inuvialuit Land Administration (ILA) Environmental Monitor. The Environmental Monitor from the (ILA) will be present on Site during the dock removal as appropriate.

11. CONTRACTOR AND SUB-CONTRACTORS (names, addresses and functions)

Imperial will be designated the Owner for this project. The remediation and dock removal work will be completed by AECOM the "Prime Contractor" and their primary subcontractor MDIOS. Further contact information can be provided if required.

12. STUDIES UNDERTAKEN TO DATE (attach list if necessary)

- Environmental Sciences Group. (ESG) 1995. Environmental Study of Abandoned DEW Line Sites III. One Auxiliary and Eighth Intermediate Sites in the Canadian Arctic. 2 Volumes.
- Komex International Ltd. (Komex), 2001. 2001 Phase I and II Programs at BAR-C, N.W.T.
- IEG Consultants Ltd. 2009. Phase III Environmental Site Assessment Report at BAR-C/Tununuk Point, NT. (Assessment conducted in 2008).
- Golder Associates (Golder) 2011. BAR-C/ Tununuk Point Supplemental Phase III Environmental Site Assessment (Assessment conducted in 2010).
- C. Arnold Heritage Consulting. 2012. History and Traditional Knowledge of Tununuk Point.
- WorleyParsons, 2012. 2012 Supplemental Phase II Environmental Site Assessment Report at BAR-C/Tununuk Point, NT.

13. PROPOSSED TIME SCHEDULE					
Start date: 01-June-2014					
Completion date: 31-October-2017					
NAME: Ramy Rahbani (print)					
TITLE: Project Manager (print)					
SIGNATURE:					
DATE: 1/24 28th, 2015					
FOR IWB OFFICE USE ONLY					
APPLICATION FEE Amount: \$	Receipt #:				
WATER USE DEPOSIT Amount: \$	Receipt #:				