

Application for Water Licence Amendment

Document Date: April 2013

Application Submission Date: ____05/08/2017____ Month/Day/Year

P.O. BOX 119 GJOA HAVEN, NUNAVUT XOB 1J0

Tel: (867) 360-6338 FAX: (867) 360-6369 kNK5 wmoEp5 vtmpq NUNAVUT IMALIRIYIN KATIMAYIT NUNAVUT WATER BOARD OFFICE DES EAUX DU NUNAVUT

DOCUMENT MANAGEMENT

Original Document Date: April 2010

DOCUMENT AMENDMENTS

	Description	Date
(1)	Updated for public distribution as separate document from NWB Guide 7	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	New NWB logo; request for background information; and change to Block 24	April 2013
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



P.O. Box 119

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

kNK5 wmoEp5 vtmp5 GJOA HAVEN, NU XOB 1JO NUNAVUT WATER BOARD NUNAVUT IMALIRIYIN KATIMAYIT OFFICE DES EAUX DU NUNAVUT

APPLICATION FOR WATER LICENCE AMENDMENT

The applicant is referred to the NWB's Guide 7: <u>Licensee Requirements Following the Issuance</u> of a Water Licence for more information about this application form.

Where possible, provide background information regarding the original licence application or attach previously submitted information.

EXISTING LICENCE NO: _1BR-KIV1621
1. LICENSEE CONTACT INFORMATION
Is the licensee the same as that referred to on the existing licence?
X Yes No
If No, a licence assignment must be completed and approved by the NWB. An amendment will only be issued in the name of the current licensee in the absence of assignment of the licence.
If the licensee is the same, but the <u>name</u> of the licensee has changed, attach a certificate of name change.
Name:
Address:
Phone: Fax: e-mail:
2. LICENSEE REPRESENTATIVE CONTACT INFORMATION – If different from Block 1.
Name:
Address:
Phone: Fax: e-mail:

(Attach authorization letter.)				
3. NAME OF PROJECT				
Has the name of the project changed?				
☐ Yes X No				
If Yes, indicate the name of the project including the name of the location:				
4. LOCATION OF UNDERTAKING				
Does the proposed amendment change the location of the amended undertaking?				
☐ Yes X No				
Provide the project extents and camp locations. Identify proposed changes.				
Project Extents				
NW: Latitude: (° ' "N) Longitude: (° ' "W) NE: Latitude: (° ' "N) Longitude: (° ' "W) SE: Latitude: (° ' "N) Longitude: (° ' "W) SW: Latitude: (° ' "N) Longitude: (° ' "W)				
Camp Location(s)				
Latitude: (° ' "N) Longitude: (° ' "W)				
5. MAP				
Does the proposed amendment change the locations of any of the main components of the undertaking?				
X Yes				
Attach a topographical map, indicating the main components of the undertaking. Identify proposed changes.				
NTS Map Sheet No.:				

6.	NATURE OF INTEREST IN THE LAND
Does t	he proposed amendment change the nature of the interest in the land?
	☐ Yes X No
If Yes,	indicate changes.
	any of the following that are applicable to the proposed undertaking (at least one box the 'Surface' header must be checked).
	Sub-surface
	☐ Mineral Lease from Nunavut Tunngavik Incorporated (NTI) Date (expected date) of issuance: Date of expiry:
	☐ Mineral Lease from Indian and Northern Affairs Canada (INAC) Date (expected date) of issuance: Date of expiry:
	Surface
	X Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC) Date (expected date) of issuance: Date of expiry:
	☐ Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA) Date (expected date) of issuance: Date of expiry:
	☐ IOL Authorization from Kivalliq Inuit Association (KivIA) Date (expected date) of issuance: Date of expiry:
	X IOL Authorization from Qikiqtani Inuit Association (QIA) Date (expected date) of issuance: Date of expiry:
	Commissioner's Land Use Authorization Date (expected date) of issuance: Date of expiry:
	☐ Other
	Date (expected date) of issuance: Date of expiry:

Is the name of the entity(s) holding a water licence?	authorizations the same as that considered in the existing
	X Yes No
If No, a licence assignment must be	e completed and approved by the NWB.
Name of entity(s) holding authorizat	ions:
7. NUNAVUT PLANNING COM	MMISSION (NPC) DETERMINATION
Indicate the land use planning area	in which the existing project is located.
	☐ Keewatin
Akunniq	☐ Sanikiluaq ☐ West Kitikmeot
Does the proposed amendment cha	inge the land use planning area?
	☐ Yes X No
If yes, indicate the land use planning	g area in which the amended undertaking is located.
☐ North Baffin	Keewatin
☐ South Baffin ☐ Akunniq	☐ Sanikiluaq ☐ West Kitikmeot
Was a land use plan conformity det existing water licence?	ermination required from NPC prior to the issuance of the
	☐ Yes X No
If Yes, indicate date issued and atta	ach copy
Does the proposed amendment clothain one?	hange the original NPC conformity determination or the need to
	☐ Yes X No
If Yes, indicate date issued (or expe	ected) and attach a copy.
If No, provide written confirmation for required.	rom NPC confirming that a land use plan conformity review is not
Written confirmation from NPC was p	provided March 13, 2017. Letter Attached.
8. NUNAVUT IMPACT REVIE	W BOARD (NIRB) DETERMINATION

Was a screening determination required from NIRB prior to the issuance of the existing water licence?
☐ Yes ☐ X No
If Yes, indicate date issued and attach copy
Does the proposed amendment change the original NIRB screening determination or the need to obtain one?
☐ Yes X☐ No
If Yes, indicate date issued (or expected) and attach a copy.
If No, provide written confirmation from NIRB confirming that a screening determination is not required.
Original Screening Report indicating screening is not required was issued Nov. 30, 2015 and written confirmation from NPC was provided March 13, 2017. Letters Attached.
9. DESCRIPTION OF UNDERTAKING
Does the proposed amendment change the description of the undertaking?
X Yes No
List and attach plans and drawings or project proposal. Identify proposed changes.
The proposed changes to the project include the following:

sed changes to the project include the following:

- Revised quantities of contaminated soil to be disposed of off-site. Tier I and II soils have an estimated volume of 2,730 cubic metres and will be excavated containerized, labeled in accordance with the Transportation of Dangerous Goods Act and disposed of at a southern licensed disposal facility.
- There are revised quantities of PHC soil to be treated on-site. The previously referenced PHC Contaminated soil types were incorrectly identified. The following soil types and disposal methods will be used; Approximately 2,750 cubic metres of Type B soils are to be treated on-site and approximately 100 cubic metres of Type A soils are to be shipped offsite to a licensed disposal facility.
- Revised quantities of non-hazardous waste materials to be collected, consolidated and packaged for off-site disposal
- Revised remedial plan for APEC 9-1. The existing dump will be excavated and materials will be segregated into waste streams for off-site disposal.
- Concrete will be demolished to grade elevation and then regraded in place.
- Painted rocks Since the paint on the rocks is below the leachable lead criterion of 5 mg/kg, the revised plan for aesthetic purposes is that the painted rocks be disposed of within an excavation at the upper site with a total depth exceeding 0.5 m.
- Water use is increased from a camp size of 30 people to a maximum of 35 ppl (35 X 115L/day = 4,025L/Day) + 1,250L/day for misc. activity (washing equipment and drums). Therefore, the water licence needs to be revised to accommodate for approximately 6

	cubic metres of water use per day in order to be sufficient.			
_	Waste water will also be increased due to the camp size being increased from 30 people to			
	a maximum of 35 people. Therefore revised volumes would be as follows;			
	Sewage - 300L x 35ppl = 10,500L/day (Blackwater)			
	Camp Grey Water- 80L x 35ppl = 2,800L/day (Greywater)			
	Camp Grey Water- 80L x 33ppr = 2,800L/day (Greywater)			
10.	OPTIONS			
Does t	the proposed amendment change any of the alternative methods and locations that were			
	lered to carry out the project?			
	☐ Yes X No			
	e a brief explanation of the alternative methods or locations that were considered to carry e project. Identify proposed changes.			
11.	CLASSIFICATION OF PRIMARY UNDERTAKING			
	ate the primary classification of undertaking for the existing licence by checking one of the ving boxes:			
	☐ Industrial ☐ Agricultural ☐ Mining and Milling (includes exploration/drilling/exploration camps)			
	Conservation			
	Municipal (includes camps/lodges) Recreational			
	Power X Miscellaneous (describe below): Remediation Project			
Does	the proposed amendment change the classification of primary undertaking?			
	☐ Yes X No			
	s, indicate the primary undertaking of the didnent:			
and s	mation in accordance with applicable Supplemental Information Guidelines (SIG) must be updated submitted with an Application for Amendment. Indicate which SIG(s) are applicable to your cation.			
	 ☐ Hydrostatic Testing ☐ Tannery X Tourist / Remote Camp X Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil ☐ Onshore Oil and Gas Exploration Drilling ☐ Mineral Exploration / Remote Camp ☐ Advanced Exploration ☐ Mine Development ☐ Municipal ☐ General Water Works ☐ Power 			
12.	WATER USE			

Indicate, using the boxes below, the types of water use(s) approved in the existing licence.					
X To obtain water for camp/ municipal purposes To obtain water for industrial purposes To cross a watercourse To alter the flow of, or store water Other: To obtain water for camp/ municipal purposes To divert a watercourse To modify the bed or bank of a watercourse Flood control					
Does the proposed amendment change the type(s) of water use(s)?					
☐ Yes X No					
If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of water use(s) noting any water use(s) that are to be added, continued, or removed.					
 ☐ To obtain water for camp/ municipal purposes ☐ To obtain water for industrial purposes ☐ To divert a watercourse ☐ To modify the bed or bank of a watercourse ☐ To alter the flow of, or store water ☐ Other: 					
13. QUANTITY OF WATER INVOLVED					
Does the proposed amendment change the source of water?					
Indicate the water source(s). Identify proposed changes.:					
(show location(s) on map)					
Does the proposed amendment change the quality of the water source and/or its available capacity?					
☐ Yes X No					
Describe the quality of the water source(s) and the available capacity(s). Identify any changes.:					
Does the proposed amendment change the overall quantity of water to be used?					
X Yes □ No					
Provide the overall estimated quantity to be used. Identify proposed changes. :10 m ³ /day					
Does the proposed amendment change the quantity of water to be used from each source?					
☐ Yes X No					
Provide the estimated quantity(s) of water to be used from each source. Identify proposed changes. :					

Does the proposed amendment change the quantity of water to be used for each purpose?
☐ Yes X No
Provide the estimated quantities to be used for each purpose (camp, drilling, etc.). Identify proposed changes.:
Does the proposed amendment change the method(s) of extraction? Yes X No Describe the method(s) of extraction. Identify proposed changes.
:
Does the proposed amendment change the quantity(s) of water returned to source(s)?
☐ Yes X No
Estimated quantity(s) of water returned to source(s). Identify proposed changes. : m³/day
Does the proposed amendment change the quality(s) of water returned to source(s)?
☐ Yes X No
Describe the quality(s) of water(s) returned to source(s). Identify any changes. :
14. WASTE
Check the appropriate box(s) to indicate the types of waste(s) approved in the existing licence.
X Sewage X Waste oil X Solid Waste X Greywater
X Hazardous Sludges
X Bulky Items/Scrap Metal X Contaminated soil and/or water Animal Waste Other (describe):
Does the proposed amendment change the type(s) of waste(s) to be generated or deposited?
☐ Yes X No
If Yes, indicate using the boxes below, the proposed change(s) to the type(s) of waste(s) to be generated and/or deposited noting the addition, removal or continued generation and/or disposal of waste(s).
□ Sewage □ Waste oil □ Solid Waste □ Greywater □ Hazardous □ Sludges □ Bulky Items/Scrap Metal □ Contaminated soil and/or water □ Animal Waste

☐ Other (describe):
15. QUANTITY AND QUALITY OF WASTE INVOLVED
Does the proposed amendment change the quantity(s) of the types of wastes involved?
X Yes No
Does the proposed amendment change the composition(s) of the types of wastes involved?
☐ Yes X No
Does the proposed amendment change the method(s) of treatment for the types of waste involved?
☐ Yes X No
Does the proposed amendment change the method(s) of disposal for the types of waste involved?
☐ Yes X No
If Yes to any of the above, describe the proposed changes: The proposed changes include an adjustment of contaminated soil and non-hazardous and hazardous waste quantities. Additional

adjustment of contaminated soil and non-hazardous and hazardous waste quantities. Additional delineation of contaminated soil areas in 2016 and the decision to excavate the materials from APEC 9 instead of regrading them in place are the primary reasons for the quantity adjustments. Changes are shown in red in the table that follows.

For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Sewage	Blackwater	300 L/day x 35 people (max.) = 10,500 L/day	Sewage Lagoon	Sewage Lagoon
Waste Oil	Oil	0.001 m ³	Collected in drums	Shipped south for recycling and/or disposal
Solid Waste	Camp waste (paper, packaging, food, etc.)	1.0 m ³ /day	Incineration (combustibles only)	Shipped south for recycling and/or disposal
Greywater	Greywater	80 L/day x 35 people (max) = 2800 L/day	Sewage Lagoon	Sewage Lagoon
Hazardous Materials	Asbestos containing tiles, insulation, etc. and lead acid batteries	Total =1.54 m ³ Asbestos= 1.32 m ³ Lead acid= 0.22 m ³	Double bagged in Yellow bags, placed in a barge container to be shipped	Disposal at a southern licer disposal facility

			south for proper disposal	
Hazardous Materials	Hazardous demolition materials and debris and unknown hazardous materials anticipated from buried debris areas requiring excavation (APEC 9, APEC 11B and APEC 11C)	Total (demolition and debris) = 6.4 m ³ Total (buried debris) = 120 m ³	Containerized for off-site transport and disposal	Disposal at a southern licenced disposal facility
PCB/Lead Amended Paint Products	PCB/Lead Amended Paint Products	0.031 m ³	Dismantle contaminated paint items and ship offsite to an appropriate disposal facility.	Dismantle contaminated paint items and ship offsite to an appropriate disposal facility.
Contaminate d soil - metals, PCB	Soil lightly contaminated with metals and PCBs (Note that some metals/PCB contaminated soil is also co-contaminated with hydrocarbons)	Tier I from Site Areas = 10 m ³ Tier II from Site Areas = 260 m ³ Tier I from Buried Debris Areas = 1230 m ³ Tier II from Buried Debris Areas = 1230 m ³ Total = 2,730 m ³	Excavated, containerized, labelled in accordance with the Transportation of Dangerous Goods Act	Disposal at a southern licensed disposal facility
Contaminate d Soil- PHC	Soils lightly contaminated with PHC	PHC= 2,850 m ³	Screen PHC Type A soils and treat in on- site constructed biological and/or aeration treatment unit (2,750 m³).	Excavate PHC Type A soils (100 m³) and place into containers, and ship offsite to a licensed disposal facility.

Non- hazardous	Heavy equipment,barrels, scrap metal, scrap wood, concrete, electrical equipment and plumbing parts	Total = 3,200 m ³ (Includes non-hazardous demolition materials and debris and unknown non-hazardous materials anticipated from buried debris areas requiring excavation (APEC 9, APEC 11B and APEC 11C)	Treatment off site	Waste will be sorted and separated into different waste types where it is safe and practical to do so, and disposed off-site in an appropriate licensed facility.
Non- hazardous	Debris in existing class C dump	110 m ³	Buried debris APEC 10 will be regraded following the removal of surface debris	Buried debris at APEC 10 will be regraded following the removal of surface debris.
Water in barrels	Analysis of collected water in the abandoned barrels indicates that the dissolved metals meet DLCU barrel protocol.	Unknown	Disposal on ground is permitted once water has been polished with an absorbent materials, additional sampling of more barrels during remediation program is required.	Disposal on ground is permitted once water has been polished with an absorbent materials, additional sampling of more barrels during remediation program is required.

16.	OTHER AUTHORIZATIONS
	s the proposed amendment change the need for other authorizations in addition to the sub- ace and surface land use authorizations provided in Block 6?
	☐ Yes X No
	es, indicate any additional authorizations required, which authorizations are no longer lired, and which authorizations continue to be required.
For e	each provide the following:
Auth	norization:
Adm	ninistering Agency:

Project Activity:
Date (expected date) of issuance: Date of expiry:
17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES
Does the proposed amendment change the predicted environmental impacts of the undertaking or the mitigation measures?
☐ Yes X No
Describe direct, indirect, and cumulative impacts related to water and waste. Identify any changes.
18. WATER RIGHTS OF EXISTING AND OTHER WATER USERS
Was compensation paid and/or an agreement(s) for compensation been entered into with any existing or other users of water during consideration of the existing licence?
☐ Yes X No
If Yes, provide the names, addresses and the nature of water use by those persons or properties.
Does the proposed amendment adversely affect any known persons or property including those that hold licences for water use in precedence to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature?
☐ Yes X No
If Yes, provide the names, addresses and the nature of water use of those persons or properties.
Advise the Board if compensation has been paid and/or an agreement(s) for compensation has been reached with any existing or other water users with respect to the proposed amendment.
19. INUIT WATER RIGHTS
Was compensation paid/ or an agreement(s) for compensation been entered into with any Designated Inuit Organization (DIO) during consideration of the existing licence?
☐ Yes X No If Yes, which DIO(s)
Does the proposed amendment substantially affect the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL)?

☐ Yes X No				
If Yes, advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more DIO(s) with respect to the proposed amendment.				
20. CONSULTATION - Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.				
A community consultation was held prior to the original submission. Another community consultation was held in Qikiqtarjuaq on August 30, 2016 prior to the first year of construction activities. Community consultation summary attached.				
21. SECURITY INFORMATION				
Does the proposed amendment change the financial security assessment?				
☐ Yes X No				
Does the proposed amendment change the estimate of the total financial security for final reclamation?				
☐ Yes X No				
Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken. Identify any changes in the financial security assessment resulting from the proposed amendment.				
Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the <i>Mine Site Reclamation Policy for Nunavut</i> , Indian and Northern Affairs Canada, 2002.				
22. FINANCIAL INFORMATION N/A				
Is the statement of financial security the same as that considered in the existing water licence?				
☐ Yes ☐ No				
Provide an updated statement of financial security.				
If the applicant is a business entity please answer the questions below:				
Is the list of the officers of the company the same as those considered in the existing water licence?				
☐ Yes ☐ No				
Provide a list of the officers of the company.				

Is the Certificate of Incorporation or evidence of registration of the company name the same?
☐ Yes ☐ No
Attach a copy of the Certificate of Incorporation or evidence of registration of the company name.
23. STUDIES UNDERTAKEN TO DATE
List and attach updated studies, reports, research etc.
Provide a compliance assessment and status report including a response to any inspector's reports.
The licensee must contact the NWB for licence specific direction in completing the assessment and
report.
N/A
If in non-compliance, a licence may not be issued until compliance is achieved. If in non-compliance, attach plans/reports for consideration. Application will not be processed if significant issues of non-
compliance exist.
24. PROPOSED TIME SCHEDULE
When are proposed amendments scheduled to be undertaken:Summer 2017 forward
Does the proposed amendment change the time schedule considered in the existing licence for any phase of development?
☐ Yes X☐ No
Indicate the start and completion dates for each applicable phase of development (construction, operation, closure, and post closure). Identify proposed changes.
<u>Construction</u>
Proposed Start Date: Proposed Completion Date: (month/year) (month/year)
<u>Operation</u>
Proposed Start Date: Proposed Completion Date: (month/year) (month/year)
Closure Proposed Start Date:
Proposed Start Date: Proposed Completion Date: (month/year) (month/year)
Post - Closure
Proposed Start Date: Proposed Completion Date: (month/year) (month/year)
For each applicable phase of development indicate which season(s) activities occur.

Construction ☐ Winter ☐ Spring ☐ XSummer ☐ Fall ☐ All season				
Operation ☐ Winter ☐ Spring ☐ XSummer ☐ Fall ☐ All season				
<u>Closure</u> ☐ Winter ☐ Spring ☐ Summer ☐X Fall ☐ All season				
Post - Closure Winter Spring Summer Fall All season				
25. PROPOSED TERM OF LICENCE				
On what date does the existing licence expire? June 23, 2021				
Is the Licensee applying for a combined renewal and amendment of the existing licence?				
☐ Yes X No				
If Yes, indicate the proposed term of the renewal (maximum of 25 years):				
Requested date of renewal issuance: Requested Expiry Date: (month/year) (month/year)				
(The requested date of renewal issuance must be <u>at least</u> three (3) months from the date of application for a type B water licence and <u>at least</u> one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's <i>Guide 5: Processing Water Licence Applications</i> for more information)				
26. ANNUAL REPORTING				
Will the proposed amendment change the content of annual reports or the annual report template?				

		☐ Yes	X No	
If Yes, p		the content of annua	Il reports and a proposed outline or template of the	
amuan	ероп.			
27.	CHECKLIST			
The follobegin.	owing must be included	with the application	for Amendment for the water licensing process to	
	Completed Application for Water Licence Amendment form.			
	☐X Yes	□No	If no, date expected	
	Information addressing Supplement Information Guideline (SIG), where applicable (see Block 11)			
	Yes	☐ XNo	If no, date expected	
	Compliance Assessment / Status Report (see Block 23).			
	Yes	XNo	If no, date expected	
	Indication of Renewal Requirement (see Block 26)			
	Yes	☐ XNo	If no, date expected	

Char of Lamontagne Director Contaminated COMBO May 8/17 Name (Print) Title (Print) Sites Signature Date					
28.	SIGNATURE			· riu	
	Yes	☐ X No	If no, date expected	N/A	
:	Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.				
	Yes	□X No	If no, date expected	N/A	
	Application fee of \$30.00 CDN (Payee Receiver General for Canada).				
	Yes	X 🗌 No	If no, date expected		
	X Yes No If no, date expected Inuktitut and/or Inuinnaqtun Summary of Amendment Application.				
	English Summary of Amendment Application.				