



Effective June 16, 2006

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NUNAVUT IMALIRIYIN KATIMAYINGI
NUNAVUT WATER BOARD
OFFICE DES EAUX DU NUNAVUT

WATER LICENCE APPLICATION FORM

Application for: (check one)

☒ **New** ☐ **Renewal** ☐ **Amendment** ☐ **Assignment** ☐ **Cancellation**

LICENCE NO:
(for NWB use only)

1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE Gordon Clarke Vice-President, Exploration North Arrow Minerals Inc. Suite 860, 625 Howe Street Vancouver, BC V6C 2T6 Phone: <u>604-668-8355</u> Fax: <u>604-668-8366</u> e-mail: <u>gord@northarrowminerals.com</u>	2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable) <u>As at left, corporate e-mail address listed below:</u> Phone: _____ Fax: _____ e-mail: <u>info@northarrowminerals.com</u>								
3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking) The Torp Project includes Mineral Claims Torp 1 (K03613) and Torp 2 (K03420), Crown Land and a portion of Inuit Owned Land Parcel BB-38. Note work will not be carried out on IOL BB-68. Centre of Project Area: Latitude: (67°20'56" N) Longitude: (109°32'41" W) NTS Map Sheet No. <u>76 N (portions of 76N/3,4,5,6)</u> Scale: <u>1:250,000</u>									
4. DESCRIPTION OF UNDERTAKING (attach plans and drawings) See attached project summary.									
5. TYPE OF PRIMARY UNDERTAKING (A supplementary questionnaire <u>must</u> be submitted with the application for undertakings listed in " bold ") <table><tr><td><input type="checkbox"/> Industrial</td><td><input type="checkbox"/> Agricultural</td></tr><tr><td><input checked="" type="checkbox"/> Mining and Milling(includes exploration/drilling)</td><td><input type="checkbox"/> Conservation</td></tr><tr><td><input type="checkbox"/> Municipal (includes camps/lodges)</td><td><input type="checkbox"/> Recreational</td></tr><tr><td><input type="checkbox"/> Power</td><td><input type="checkbox"/> Miscellaneous (describe below):</td></tr></table> See Schedule II of <i>Northwest Territories Waters Regulations</i> for Description of Undertakings		<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural	<input checked="" type="checkbox"/> Mining and Milling (includes exploration/drilling)	<input type="checkbox"/> Conservation	<input type="checkbox"/> Municipal (includes camps/lodges)	<input type="checkbox"/> Recreational	<input type="checkbox"/> Power	<input type="checkbox"/> Miscellaneous (describe below):
<input type="checkbox"/> Industrial	<input type="checkbox"/> Agricultural								
<input checked="" type="checkbox"/> Mining and Milling (includes exploration/drilling)	<input type="checkbox"/> Conservation								
<input type="checkbox"/> Municipal (includes camps/lodges)	<input type="checkbox"/> Recreational								
<input type="checkbox"/> Power	<input type="checkbox"/> Miscellaneous (describe below):								

6. WATER USE

- ☒ To obtain water
 ☐ Flood control
☐ To cross a watercourse
 ☐ To divert a watercourse
☐ To modify the bed or bank of a watercourse
 ☐ To alter the flow of , or store, water
☐ Other (describe):

7. QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quantity to be returned to source)

Water use ☒ 100m³/day or less
☐ Greater than 100m³/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)

Water returned to source
 _____ m³/day

8. WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)

- ☒ Sewage
 ☒ Waste oil
☒ Solid Waste
 ☒ Greywater
☐ Hazardous
 ☒ Sludges
☒ Bulky Items/Scrap Metal
 ☐ Other (describe):

9. OTHER 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 Application Submitted

Regional Inuit Association ☐ Yes ☒ No If no, date expected Application Submitted
Already hold KitIA KTL109C003 but also submitting new application

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 attached Detail sheet

NIRB Screening ☐ Yes ☒ No If no, date expected Requisite NIRB forms are currently being completed and will be submitted ASAP

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

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?

12. CONTRACTORS AND SUB-CONTRACTORS (name, address and functions)

Expediting will be conducted by Nunavut Expediting Services/Discovery Mining Services.
Helicopter contract - Great Slave Helicopters, Yellowknife, NT
Geophysical contract - Aurora Geosciences Ltd., Yellowknife, NT
Fixed wing contract - Air Tindi, Yellowknife, NT
Drilling contract to be awarded.

13. STUDIES UNDERTAKEN TO DATE (list and attach copies of studies, reports, research, etc.)

N/A

14. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN

Supplementary Questionnaire (where applicable: see section 5) ☒ Yes ☐ No If no, date expected _____

Inuktitut and/or Inuinnaqtun/English Summary of Project ☒ Yes ☐ No If no, date expected _____

Application fee of \$30.00 (Payee Receiver General for Canada) ☒ Yes ☐ No If no, date expected _____

Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the *NWT Waters Regulations*; Payee Receiver General for Canada)

☒ Yes ☐ No If no, date expected _____

15. PROPOSED TIME SCHEDULE (unless otherwise indicated, the NWB will consider the application for a five (5) year term)

☐ one year or less (or) ☒ Multi Year

Start Date: Aug 15, 2009 Completion Date: August 14, 2014

Zara Boldt

Corporate Secretary,
North Arrow Minerals
Inc.



July 7, 2009

Name (Print)

Title (Print)

Signature

Date

For Nunavut Water Board office use only

APPLICATION FEE Amount: \$ _____ Pay ID No.: _____

WATER USE DEPOSIT Amount: \$ _____ Pay ID No.: _____

**ADDITIONAL INFORMATION DETAIL SHEET TO ACCOMPANY
NORTH ARROW MINERALS INC. WATER LICENCE APPLICATION – JUNE 2009**

With reference to **Question 8 - WASTE** – below is additional information:

Table 1 below identifies the potential impacts and proposed mitigation measures to be employed.

Table 1: Potential Impacts and Proposed Mitigation Measures		
Resource/Topic	Potential Impact	Mitigation
Terrain / Permafrost	Overburden drilling will cause minor disturbance to immediate drilling areas. Contamination of terrain/permafrost and, surface and ground water due to fuel spills. Accidental fuel spills.	Drill rigs will be heli-portable and will not traverse the ground surface. Site will be left in a stable state. Proper storage of fuel containers and use of drip pans. See attached Spill Contingency Plan for more details.
Hydrology	Water removal required from local water bodies for drilling.	Water use will be monitored to ensure water drawdown will be negligible. Flow meters will be installed at the drill and at the camp (if constructed) water source locations and will be monitored on a daily basis with daily water usage records kept on site.
Surface Water Quality	None – no discharge to receiving water environment, negligible sedimentation.	No mitigation required.
Fish and Fish Habitat	Entrainment of fish and other aquatic life from water withdrawal for drilling purposes.	Use of screens over intake pipe to prevent entrainment of fish as per DFO <i>Freshwater Intake End-of-Pipe Fish Screen Guidelines</i> .
Vegetation	Minor compaction of vegetation caused by drill.	Drill-rig will be heli-portable and will not traverse the ground surface.
Wildlife and Wildlife Habitat	Wildlife: short-term aircraft and drilling noise, human interaction. Habitat: Minor disturbance to vegetation in drilling areas by compaction.	Personnel training on wildlife-human interaction/encounters. Pre-drilling reconnaissance site visit prior to drilling activities will assist in identifying sensitive wildlife habitat. Site will be left in a stable state, promoting vegetation re-established. Any critical or sensitive wildlife species encountered during the drilling season, such as nesting raptors in the area, will be avoided by a 10 m buffer zone. Work programs will be timed to avoid significant wildlife periods such as caribou calving. As well all work in areas will cease should caribou move into the area during active work programs. Wildlife Sighting forms will be completed on an “as viewed” basis.
Wildlife and Wildlife Habitat	Disturbance of wildlife from low-level aircraft activities.	Low-level aircraft activity will be restricted to flights into and out of the camp for crew changes and supply deliveries.
Socio-economics	Positive impacts. Personnel actively employed from local communities if initial results positive and scope of project increases.	N/A