

Suite 860 – 625 Howe Street Vancouver, BC, Canada V6C 2T6 Tel: (604) 668-8355 Fax: (604) 668-8366 www.northarrowminerals.com

# ABANDONMENT & RESTORATION PLAN Torp Lake Project, NU

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# **TABLE OF CONTENTS**

1.	INTRODUCTION	1
2.	DESCRIPTION OF FACILITY	1
3.	ONGOING OPERATIONS	2
	3.1 Drill Hole Locations	2
	3.2 Core Storage	2
	3.3 Fuel Storage	2
	3.4 Contamination Clean Up	2
	3.5 Camp	2
	3.6 Inspection and Documentation	3
4.	SEASONAL ABANDONMENT	3
5.	FINAL ABANDONMENT AND RESTORATION	3
	5.1 Drill Hole Locations	
	5.2 Fuel Storage	
	5.3 Camp	3
	5.4 Contamination Clean Up	
	5.5 Inspection and Documentation	
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APPENDICES
APPENDIX 1 – Torp Lake Property, NU Maps

#### 1. INTRODUCTION

The following plan applies to the Torp Lake Project operated by North Arrow Minerals Inc. ("North Arrow"). This project is located approximately 245 km east-southeast of Kugluktuk NU. The property currently consists of two claims *Torp 1* (K03613) and *Torp 2* (K03420) covering 4,958.4 acres.

North Arrow intends to carry out exploration work including prospecting, mapping, ground geophysics, sampling, diamond drilling and potentially airborne geophysical surveys. Work will be focused on the current claim area but North Arrow will be carrying out regional prospecting and may acquire additional ground by staking. Individuals working on the property could reach 16 for short periods but would typically be 3 to 8. Exploration work may take place year round but is unlikely during spring breakup and fall freezeup.

### 2. <u>DESCRIPTION OF FACILITY</u>

Project Supervisor Gordon Clarke

North Arrow Minerals Inc. 604-668--8355 Office phone 604-668-8366 Office fax

<u>Facility</u>

Initial work will take place out of the existing High Lake exploration camp but a 16person camp may be constructed at the proposed coordinates:

67°18'58" N 109°38'57" W

If a camp is set up the following conditions will apply. If drilling is carried out fuel/chemical storage areas will be established at each active drill site with the main fuel cache located at the camp location.

Locations

Fuel will be stored in an appropriate facility or containers a safe distance from the accommodations and away (>31m) from water bodies.

Fuel and drill additives (if required) will be stored in the vicinity of each drill site a safe distance from the drilling equipment and, in the case of land-based targets, well away (>30m) from the high water mark of any water bodies.

Size

Fuel stored at facility in 205 litre (45 gal.) steel drums

Storage Capacity

Maximum fuel stored at camp will typically be 60 drums (12,300 litres) of Jet-B, 80 drums of diesel (16,400 litres), 4 drums reg gasoline (820 litres) plus 10, 45 kg propane cylinders

A minor amount of fuel will be stored at drill sites (4 to 6 drums diesel, 2 drums Jet B, 2 cylinders propane), and removed promptly upon completion of each drill hole.

Description of the type and amount of potential contaminants normally stored at the camp during occupation (estimated maximums):

JET B fuel for the helicopter – 12,300 litres (60 drums)
Propane for cooking, heating, etc. - 12, 45 kg cylinders
Diesel – 16,400 litres (80 drums)
Oil – 2 cases 1 litre bottles (24 per) of four-cycle Engine Oil
2 stroke oil – 1 case 1 litre bottles (24 per)

Gasoline – 820 litres (4 drums)

Description of the type and amount of potential contaminants normally stored at drill site:

JET B fuel for the helicopter – 410 litres (2 drums)

Diesel for the drill - 1,230 litres (6 drums)

Propane for heating, etc. - Two (2) 45 kg cylinders

#### Storage Location

Drums will be stored on flat stable terrain during the summer to reduce chances of a leak and bungs will be placed in a horizontal alignment position. If possible a site will be chosen such that drainage would not be toward natural water bodies.

#### 3. ONGOING OPERATIONS

The exploration season for the Torp Lake Project will typically run from early July to the middle of September of each year, weather permitting. Winter drilling and geophysical surveys may also be carried out, typically from March until June. Restoration during operations for drilling, fuel storage, contamination clean up and camp operations are described below.

#### 3.1 **Drill Hole Locations**

- Each drill hole will be restored to as close as possible, previous conditions after completion
  of the hole
- If hole is drilled on-ice the drill cuttings will be scraped clean and removed to an on-land sump
- All fuel drums and drilling equipment will be removed from the site immediately upon completion of each hole.
- Each drill site will be inspected to ensure that all garbage (combustible and non-combustible) has been collected and removed from the area.
- A final inspection of the site will ensure that there is no remaining material at the site upon completion of the drill hole.

#### 3.2 Core Storage

 Core will be stored at the camp site or a centralized location. This would be dependent upon the location of drill targets. The location of any core will be indicated in yearly land use reports.

#### 3.3 Fuel Storage

- All fuel storage and handling is to be guided by the procedures set out in the Spill Contingency Plan for the Torp Lake Project.
- Empty fuel drums are to be regularly backhauled to Yellowknife for proper disposal.

#### 3.4 Contamination Clean Up

 Any soil around fuel caches or drill sites that has become contaminated will be treated as per North Arrow's Spill Contingency Plan. Before and after photos will be taken to document the contamination and the clean up.

#### 3.5 **Camp**

- Garbage is to be regularly transported to Yellowknife for proper disposal.
- If sewage pits are utilized they will be back filled.

#### 3.6 <u>Inspection and Documentation</u>

- A complete inspection will be conducted of all areas prior to seasonal closure.
- Photos will be taken to document the conditions prior to leaving the site for the winter.
- A full inventory will be conducted.

#### 4. SEASONAL ABANDONMENT

Existing camp infrastructure will be left intact. Tents may or may not be returned to Yellowknife (depends upon agreement with expediter). The camp generator may be removed from site for servicing and storage. All food and garbage will be backhauled to Yellowknife. All stove fuel lines will be shut off and stove barrels will have bungs tightened. Fuel caches will be inventoried and inspected for any leaks.

#### 5. FINAL ABANDONMENT & RECLAMATION

As work on the properties comprising the Torp Lake Project is currently still in the grass roots stage of exploration activities, it is not practicable at this time to subscribe to a definitive schedule for the conclusion of this land use operation, however upon its completion the following procedures will be followed to allow for proper abandonment and reclamation of the area:

#### 5.1 Drill Hole Locations

• As per the ongoing restoration procedures all drill holes are to be restored to as close as possible, previous conditions immediately upon completion of the hole.

#### 5.2 Fuel Storage

- All fuel storage and handling is to be guided by the framework set out in the Spill Contingency Plan for the Torp Lake Project.
- Upon completion of the land use operation all empty fuel drums will be removed from the area for proper disposal and any remaining fuel caches will be moved to an approved/permitted storage location.

#### **5.3 Camp**

- At the end of the project all camp materials and equipment, fuel drums, and drilling equipment (if applicable) will be removed from the site.
- All remaining garbage will be incinerated or backhauled to Yellowknife.
- At the end of the program all wood (tent floors, frames etc.) will be burned. The coals and ash will be raked for non-combustible items (i.e. nails etc) which will be collected and removed from the site.
- A last inspection will ensure that there is no remaining material at the site and that there is little/no evidence of North Arrow's land use activity upon completion of the operation.

#### 5.4 Contamination Clean Up

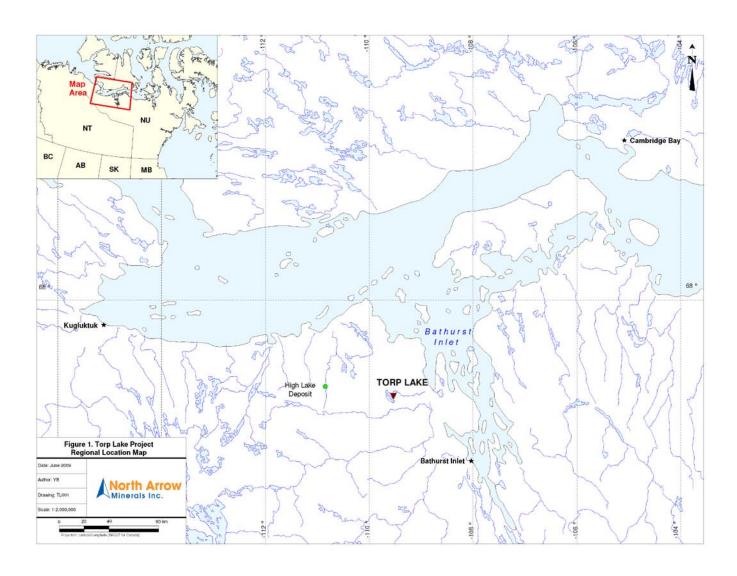
• Any contamination will be treated as per the Spill Contingency Plan. Before and after photos will be taken to document any contamination and the clean up.

#### 5.5 Inspection and Documentation

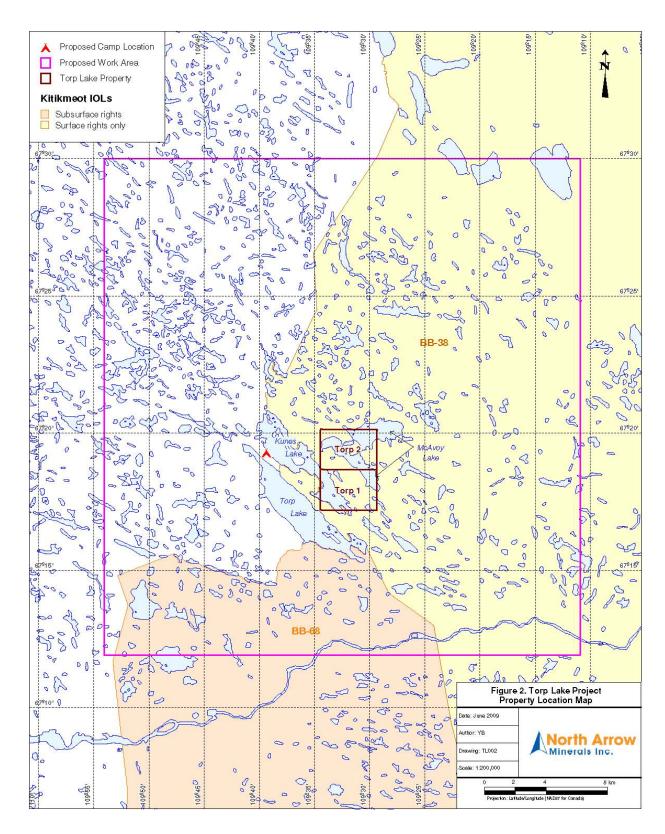
- A complete inspection will be conducted of all areas prior to closure.
- Photos will be taken to document the conditions prior to leaving the site for use in the final plan.
- All appropriate agencies will be contacted and notified prior to the final clean up and again once the final clean up has been completed.

# **APPENDIX 1**

Torp Lake Property, NU Maps



Map 1: Regional Location Map



Map 2: Property Map