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## ABANDONMENT AND RESTORATION PLAN

JULY 1, 2011



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Erichsen Lake Project/Pingujuak Camp  
Exploration and Remote Temporary Camp  
Abandonment and Restoration Plan

## **1. Preface**

This Abandonment and Restoration (A&R) Plan is in effect as of July 1, 2011 and applies specifically to the Pingujuak Camp, Erichsen Lake Property. Burnstone Ventures Inc. (BVI) aims to take every reasonable precaution to ensure the protection and conservation of the natural environment and the safety and health of all employees and contractors from any potential harmful effects of stored materials and operations.

## **2. Introduction**

The work proposed for this project consists of an exploratory drill program, fuel transport (via fixed-wing aircraft and helicopter), fuel caches and one camp. Although the camp is temporary, the company would like to have the camp remain in place for the duration of the land use permits and water license.

Burnstone Ventures Inc. has been conducting mineral exploration in the Erichsen Lake area since 2008. The lands in the exploration area are both Crown Land and Inuit owned Land. The exploration activities have been authorized by Aboriginal Affairs and Northern Development Canada (AANDC) and the Nunavut Water Board (NWB). As a condition of the licenses, BVI will return the land in a condition as near to its original natural state as practicable. This Abandonment and Restoration plan will be filed with the relevant regulatory bodies.

BVI will operate one camp and one drill in the Erichsen Lake area. Erichsen Lake camp is supported by a natural esker airstrip. A prepared winter ice strip on Erichsen Lake is located next to the camp. Drill sites are located in geologically favorable various parts of the area where small amounts of drill equipment and/or fuel may be temporarily stored for future use (small remote fuel caches). Currently there are no drill sites planned and the only drummed fuel is located at Pingujuak Camp.

## **3. Schedule**

The final restoration of the camp will begin on termination of any exploration. All work under the Abandonment and Restoration Plan will be completed prior to the date of expiry of the land use permits and water license unless a renewal is applied for.

Empty fuel drums brought on site by BVI will be removed from site regularly. Once a fuel cache is retired, a thorough inspection will be conducted. Any contamination will be cleaned up according to the Spill Prevention and Response Plan. All waste will be removed from the site.

#### **4. Infrastructure**

The camp consists of varying numbers of:

- Weatherhaven structures
- Outhouse facilities .
- A generator building to house a 20 kW diesel generator as well as a backup generator
- A helicopter landing area, and
- A natural gravel airstrip for a small fixed wing aircraft.

##### Current Camp Infrastructure Structures

15 Weatherhaven tents for accommodations, kitchen and office  
2 buildings

##### Vehicles and Heavy Equipment

4 Skidoos  
2 Honda ATV

##### Drilling Equipment

1 Hydracore Gopha ATW Drill or similar diamond core drill with miscellaneous drill equipment and spares

##### Air Transportation

1 small fixed wing aircraft (Twin Otter)  
1 helicopter (Hughes 500, Jet Ranger, Long Ranger or A-Star)

#### **5. Seasonal and Temporary Shutdowns**

##### **Buildings and Camp**

Buildings, tents, wooden structures and wooden floors will be kept secured.

The generator may be removed from site for servicing and storage.

Camp and surrounding area including esker strip will be inspected for debris which will be incinerated or flown out.

**Water System**

Pumps and hoses will be drained and stored inside to protect them over winter.

**Fuel Caches and Chemical Storage**

An inventory will be conducted prior to leaving at the end of the field season. A thorough inspection of all fuel caches will be completed and empty fuel drums will be removed from site. Every effort will be made to use up any partially full fuel drums. In the event that any partially full fuel drums are left once the season is over, they will be placed on an angle to ensure that snow and water do not enter the drum and no leakage from the drum occurs. Full fuel drums will be stored on their sides with the bungs in the 3 and 9 o'clock position.

All chemicals, including cleaning products, will be stored in a sealed tent.

**Waste**

**Combustible Waste:** All combustible waste will be backhauled incinerated. On rare occasions and upon approval of the Nunavut Water Board, untreated wood and large pieces of cardboard may be burned in a controlled open burn in compliance with the Municipal Solid Wastes Suitable for Open Burning Guidelines (Appendix I). It is Burnstone Ventures Inc.'s intention to backhaul all waste.

**Incinerator:** The incinerator will be cleaned, secured and may be partially disassembled. All ash will be properly stored and backhauled to Manitoba. Fuel lines will be shut off and the fuel drum will be stored at an angle so no snow and water enter the drum and no leakage occurs.

**Grey Water Sump:** The grey water sump will be inspected and covered securely for the winter.

Stakes will be placed around the sump so that it is easily identifiable when the camp is opened up again each year.

**Black water:** Privy, will be treated with lime. Located 60 metres from the high water mark.

**Drill Sites:**

The drill will be partially dismantled into its main components as per the drilling contractor procedure, packaged and secured along with its ancillary equipment and rods. All drill sites will be inspected for soil contamination. Any remaining waste will be taken to camp to either be incinerated, if appropriate, or flown out to an approved disposal location.



Grey water and sludge sumps will be filled and leveled as required.

### **Contamination Clean Up**

Any soil around camp that has become contaminated and gone unnoticed will be treated as per the Spill Prevention and Response Plan and Waste Management Plan.

### **Inspection and Documentation**

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.

### **6. Final Abandonment and Restoration**

All equipment, structures and fuel will be removed from the area of the lease prior to license/permit termination. The only materials and structures remaining will be drill core stored in permanent stacks, appropriately labeled and sealed.

The esker strip will be inspected to ensure no debris remains on site.

### **Non-combustible Waste**

All non-combustible waste will be backhauled to an approved disposal site.

### **Drill Core**

There will be some yet to be determined meterage of drill core stored. Upon the end of the licenses/permits, the core will be re-stacked on more durable and stable gravel pads for long term storage and access for future reference by others.

### **Buildings and Contents**

All wooden structures including floors will either be burned or removed.

### **Equipment**

All equipment, including pumps, will be dismantled and removed from the project area.

### **Fuel caches and Chemical Storage**

All fuel drums brought to site by BVI will be removed. All areas where fuel has been cached will be thoroughly inspected. Any contamination will be cleaned up as well as any debris removed. Contaminated soil will be handled as per the Spill Prevention and Contingency Plan. Final photos will be taken of all fuel caches for inclusion in the final report.

**Sumps**

All sumps will be inspected to ensure that there is no leaching or run-off. Sumps will be back-filled and leveled as required. Final photos will be taken.

**Drill Sites**

The drill will be dismantled into its main components as per the drilling contractor procedure, packaged and secured along with its ancillary equipment and rods. The drill will be flown out by the drilling contractor or as the contract describes. All drill sites will be inspected for soil contamination. Any remaining waste will be taken to camp to be incinerated if possible or to be flown out to an approved disposal location. Grey water and sludge sumps will be filled and leveled. An inspection will be conducted to ensure that all drill sites have been restored and sumps have been covered and leveled.

**Contamination Clean Up**

Any contamination will be treated as per the Spill Prevention and Response Plan. Before and after photos will be taken to document the contamination and the clean up. These photos will make up part of the final report to be submitted to the Water Resource Inspector following any spill and will also be attached as part of the Annual Report submitted to the AANDC and the Nunavut Water Board.

**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 once the final clean up has been conducted. The photos will make up part of the final closure reports to be submitted to AANDC and the Nunavut Water Board.

**7. Important Contact Numbers**

• <b>CONTACT</b>	• <b>TELEPHONE NUMBER</b>
• NWT/NU 24 hour Spill Line	• (867) 920-8130
• AANDC Water Resource Officer, Iqaluit	• (867) 975-4295
• Environment Canada	• (867) 975-4644
• Robert Eno, Government of Nunavut Department of the Environment	• (867) 975-7729

# **BURNSTONE**

## **VENTURES INC.**

• Qikiqtani Inuit Association	• (867) 975-8400
• DFO, Eastern Arctic	• (867) 979-8000
• AANDC Land Use Inspector	• 867 982 4306
• Kris Raffle, Apex Geoscience Project Manager for Burnstone Ventures Inc.	• (604) 696-9628 (office) • (604) 290-3753 (cell)
• Igloodik RCMP	• (867) 934-0123/1111
• Nunavut Water Board	• (867) 360-6338