



Abandonment and Restoration Plan
Roche Bay PLC

January 2011

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Abandonment and Restoration Plan

1. Preface

This Abandonment and Restoration Plan applies specifically to the Fraser Bay 1-3 Property. Included in the Appendix are a property map and a camp layout. Roche Bay PLC is committed to the protection and conservation of the natural environment and the safety and health of all employees and contractors from any potential harmful effects from operations and stored materials. The proposed work for this project includes drilling, fuel transport, fuel caches and establishing a temporary camp.

2. Introduction

Roche Bay PLC has been an active member in mineral exploration on the Melville Peninsula since 1997. The lands in the exploration area are Federal and Qikiqtani region Inuit owned lands (IOL). Land use for the exploration activity on the Mineral Lease #2826 is in the process of being authorized by Qikiqtani Inuit Association (QIA), Indian and Northern Affairs Canada (INAC) and the Nunavut Water Board (NWB). Within practical and possible means, Roche Bay PLC is obliged to restore the land to its original natural state. This abandonment and reclamation plan will be filed with the relevant regulatory bodies.

Roche Bay PLC will be operating one camp site on the property as well as approximately twelve drill sites in 2011. The proposed camp location is on low topography and is supported by the southernmost lake on the property. To accommodate twelve to sixteen people, four or five tents will be set up to allow for an office, a kitchen, a dry and four to five sleepers. Drill sites are to be located on the west side of the property in geologically favorable locations where equipment and/or fuel may be temporarily stored in small remote fuel caches. The DEW line airstrip known as the Mackar Inlet airstrip on the Peninsula will act to transport personnel and equipment to the general area. Helicopter transportation will be used to move personnel and equipment to and from camp while on the property.

Table 1. Roche Bay PLC Camp and Cache location.

Camp	Latitude	Longitude
UTM	68°11'54" N	85°31'13"

3. Schedule

Equipment and supplies, as the proposal presents, will be mobilized to camp the second and third week of June 2011. The last week in June will be designated to building drills and setting up camp. Exploration including drilling is expected to start in August 2011 and expected to continue through to October 2011 or as weather allows; a seasonal shutdown of the camp will commence and thereafter the annual field season will begin in May.

4. Infrastructure

Camp will consists of:

- Six to Eight 14'x16' insulated tents on wood flooring to function as, an office, a kitchen, a dry, first aid station and storage, and 3-4 sleeper tents.

- Outhouse facilities using “Outhose” toilets, which do not require electricity or water. (If the camp gets larger in size Pacto toilets which use a flush foil to encapsulate the waste may be brought in as well as an incinerator.
- A generator building to hold a 20 kW diesel generator and a back-up generator.
- A helicopter landing area
- A water pump
- A dry tent will hold: 2 showers, 1-2 sets of washers and driers, water tank

Structures

- | | |
|-----|--|
| 3-4 | 14'x16' Sleeper tents |
| 1 | 14'x16' Geology office and logistics/camp office |
| 2 | 14'x16' Kitchen area tents |
| 1 | 14'x16' Camp dry and water tank |
| 1 | 12'x14' generator shed – housing a |
| 1 | 14'x16' core processing and cutting tent |
| 2 | Outhouse or similar units |

Vehicles

- | | |
|---|------------------------------|
| 2 | All Terrain vehicles (quads) |
| 1 | Helicopter |

Drilling Equipment

- | | |
|----|---|
| 1 | A5 Diamond Drill plus miscellaneous drill equipment and spares. |
| 20 | Casing |
| 50 | 100 ft Hose lengths |
| 2 | NQ Core Barrels |
| 1 | Overshot |
| - | Tools Bits Misc Parts |
| | Water Tanks, Pressure Pump, Mud Pump Baskets |
| | Supply pump and Coil heater |

Air Transport Equipment

- | | |
|--|---|
| | C130 Hercules |
| | DCH5- Buffalo or similar |
| | Helicopter (A star, Long Ranger, 500, or similar) |

5. Seasonal Shutdowns

Prior to closure and/or shutdown a complete inspection of all used areas will be carried out as well as an inventory check. The condition prior to leaving will be documented with photographs. Any contaminated soils around camp that have gone unnoticed will be treated as per the Spill Prevention and Response Plan. All fuel caches will be removed from the site and efforts will be made to use partially filled drums; if left for the season they will be angled so snow and water do not enter the drum and no leakage occurs. Fuel drums will be stored on their sides with the bungs in the three and nine o'clock positions. All chemicals will be stored in a sealed tent. The generator will be removed from site for storage and repairs. Wood shacks and wood floors/frames will be secured and all pumps and hoses will be drained and stored to protect from winter damage.

Waste

Combustible Waste: All combustible waste will be burned in burn barrels; and to comply with the Municipal Solid Wastes Suitable for Open Burning Guidelines, large pieces of cardboard and untreated wood will be burned in a controlled open burn.

Non-Combustible Waste: All non-combustible waste will be shipped to the nearest approved disposal site.

Grey Water Sump: The sump will be covered securely and stakes will be placed around the sump to identify its location; an inspection of the grey water sump before departure will be conducted. The sump will be filled and leveled as required.

6. Final Abandonment and Restoration

Prior to the lease termination, all structures, equipment and fuel will be removed from the property with the exception of the core stacks which will be permanently secured. Materials of value will be salvaged by Roche Bay PLC; Local persons and businesses will have the opportunity to salvage remaining buildings/materials that will otherwise be destroyed by Roche Bay PLC. Any contamination or debris will be removed and any contaminated soils will be treated as per the Spill Contingency Plan. Sumps will be inspected to make certain there is no leaching or run-off and will be back-filled and leveled as required. A thorough inspection of all areas will be conducted and documentation photographs will be taken and included in the final report submitted to the Water Resource Inspector and as part of the annual report submitted to QIA, INAC and the Nunavut water board. All designated agencies will be contacted and notified once the final clean-up as been performed.

Drilling

All of the drill core will be permanently stored at the camp location on stable gravel pads for future access. As per the drilling contractor procedure, drills and additional drill equipment will be dismantled, packaged, secured, and flown out by the drilling contractor or as the contract describes. Inspection for soil contamination and any needed treatment at each drill site will be done. Remaining waste such as paper and large cardboards will be burned in controlled open burns as per set guidelines; all other waste will be flown out to the nearest approved disposal location. If the camps expands then an incinerator may be purchased for the burning of combustible wastes. Grey water and black water sumps will be filled and leveled and will be inspected.

Reclamation

Throughout the duration of the program and upon shutdown, areas on the property which have been disturbed may warrant the use of fertilizers to encourage natural re-vegetation. The removal of buildings infrastructures will allow plants to naturally re-establish themselves in the area as the structures will have prevented erosion of sediments; fertilizers will be used to aid plant re-growth in this situation and in areas where there have been heavy traffic flow.

7. Post Closure Site Monitoring

After the completion of reclamation, annual terrestrial and aquatic monitoring can occur. The monitoring can consist of measuring and documenting plant re-growth and checking the stability of the permanent core racks and boxes and examining potential run-off and erosion problems. Reports with photographs of the conditions will be submitted to the relevant regulatory bodies.

8. Emergency Contact Information

Contact Telephone Number

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Benjamin Cox, - Roche Bay PLC Representative
Contact Number: 1-503-381-4955

Environment Canada: 867-669-4728, 24-hr pager: 967-766-3737

Nunavut Government, Robert Eno: 867-875-7748

Department of Fisheries and Oceans: 867-669-4900

INAC Field Ops, Peter Kusugak: 867-979-6445

INAC Land Use Inspector: 867-882-4306