



## **Abandonment & Restoration Plan**

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**Roche Bay Project Area**

**NWB License:** 2BE-RBP0811

**INAC License:** N2007C0033

**QIA License:** Q10L3C009

Revised December 2010

## **EXECUTIVE SUMMARY**

Advanced Explorations Inc.'s Abandonment and Restoration Plan has been designed for the diamond drilling and associated programs currently being planned and undertaken in Nunavut. The plan applies to exploration activities to be undertaken at the camp and drill locations and, upon completion of the land use operation and exploration, procedures will be implemented to allow proper abandonment and reclamation of the area.

Roche Bay plc is currently the majority owner of the Crown mineral leases under exploration, with Advanced Explorations Inc. (AEI) earning an interest in the leases, and being operator of the joint venture with Roche Bay. Advanced Explorations Inc. staked mineral claims covering the Peninsula project area in late 2007, and additional claims around the mineral leases in late 2008, with all claims being part of the joint venture with Roche Bay plc.

Primary access to the site is typically by charter flights from Hall Beach, Yellowknife, and various cities in southern Canada, with helicopter or fixed wing aircraft transport from Hall Beach. Ground transportation in summer and fall will be limited to the minimum required, and will only be considered on durable land, and on tundra only when necessary travel has to be undertaken and the weather does not permit helicopter flights. In winter, snowmobiles and skidded equipment will be used on adequate snow cover. Historical ATV trails on the Peninsula and beach area are also used.

An approximate 60 person camp is located in the project area, with a portion of the camp likely being moved from its current location to the Peninsula area during the next major exploration program. All structures erected to date are temporary and removable, and include Winterhaven tents, a small plywood emergency shelter located at the core storage area, and removable metal storage silos. All structures will be removed upon completion of the project. A complete inspection of all disturbed areas will be conducted prior to final closure, with photos taken to document the closure. All appropriate agencies will be contacted once the final clean up is complete and we will organize a final site inspection visit with community representatives, Land Use Inspectors and in collaboration with the Nunavut Water Board staff, if requested.

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ROCHE BAY MAGNETITE PROJECT

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## **Preamble**

This Abandonment and Restoration Plan is effective as of the front-cover date of this document, and will be updated through the life of the project. Project activities are located at the Roche Bay area, Nunavut, centred at approximately 68°27'36"N and 82°38'30"W. The Company has received the appropriate licences for the area, as detailed on the cover page of this report.

Roche Bay plc is currently the majority owner of the Crown mineral leases under exploration, with Advanced Explorations Inc. (AEI) earning an interest in the leases, and being operator of the joint venture with Roche Bay. Advanced Explorations Inc. staked mineral claims covering the Peninsula project area in late 2007, and additional claims around the mineral leases in late 2008, with all claims being part of the joint venture with Roche Bay plc.

This Plan will be distributed to all employees and personnel directly involved in the project, and hard copies will be kept on site. Additional copies and updates of this Plan may be obtained via e-mail at [nadine@advanced-exploration.com](mailto:nadine@advanced-exploration.com).

## **Introduction**

Project infrastructure consists of removable tents, plywood buildings and small metal storage silos. Advanced Explorations has also used existing facilities on the Peninsula as part of its exploration program, including an airstrip, old camp site and core storage area and beach area used for bulk material storage. The area has also been included in the environmental baseline program conducted since 2006.

Primary access to the site will be by charter flights from Hall Beach (connecting to commercial flights), Yellowknife, and various cities in southern Canada for both cargo and personnel. Personnel fly via commercial airline and charter flights to Hall Beach, and helicopter or fixed wing aircraft will transport them from Hall Beach to the property. Ground transportation in summer and fall will be limited to the minimum required, and will only be considered on durable land, and on tundra only when necessary travel has to be undertaken and the weather does permit helicopter flights. In winter, snowmobiles and skidded equipment will be used on adequate snow cover. Historical ATV trails on the Peninsula and beach area will be used.

An approximate 60 person camp is located on the property, with the only structures erected being temporary and removable. The camp will be removed upon completion

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of the project. Part of this existing camp will be relocated to the Peninsula during the next major exploration program. The Peninsula location of the site was selected because of its proximity to water, core storage facilities, the historical airstrip and the beach bulk material storage area. The site has also been used for a camp in the past, minimizing the potential impact from reusing the area.

The following plan applies to exploration activities to be undertaken at the project area. Upon completion of the land use operation and exploration, the following steps and procedures will be implemented to allow proper abandonment and reclamation of the area.

### **History**

The Peninsula area was used historically for mineral exploration camps, with such a camp established at the site in the 1980s. In addition, an airstrip was built nearby, and a network of ATV trails established on the Peninsula and beach area at this time. More recently, Advanced Explorations has used the old camp area as a core storage facility, and the beach has been the site of bulk material storage as it is offloaded from the annual sealift. Advanced Explorations Inc. also established a temporary exploration camp within Mineral Lease 2953 in 2007.

### **Schedule**

It is planned to relocate part of the main Roche Bay exploration camp to the Peninsula property during the next full field season. Following this, any temporary shutdown of the campsite and associated activities will be undertaken at the end of each summer field program. The plan outlined below will be applied with the help of the project personnel under supervision of the field supervisor.

### **Seasonal Abandonment and Restoration Plan**

#### *Buildings and Contents*

All tent structures will be secured for the winter, with all equipment (stoves, kitchen gear, office, showers etc) left on site. The camp will be secured and minimal food (including canned food) will be left on site.

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*Drilling Locations*

Drill equipment will be removed from individual drill sites, dismantled, packaged and stored along with its ancillary equipment and rods at a central location. The drills will be left on solid ground until the following season. All drill locations will be inspected immediately upon completion of each drill hole, with all waste collected and taken to camp for incineration or removal to an approved disposal location. All sumps will also be backfilled. The sites will also be inspected for soil contamination.

*Fuel Storage*

A thorough inspection of full fuel drums as well as an inventory of all fuel drums will be made prior to camp abandonment. Empty drums are to be maintained at the beach for re-use or be returned on sealift voyages for proper disposal. Drums located at the storage area will be placed within secondary containment berms, capable of holding 110% of the total volume stored. The soil of all fuel use areas will be inspected for contamination.

*Waste*

*Combustible waste*

All combustible waste will be incinerated throughout the course of the program. Ash will be collected, backhauled on the sealift and disposed of in approved facilities. Once the camp is closed, all remaining combustible waste will be burned, with the soil inspected for contamination.

*Non-combustible waste*

Non-combustible waste will be hauled out by sealift throughout the course of the program for proper disposal, or flown out depending on what transportation methods are available at the time. All carriers and receivers of this material will be informed of the need to register with the Government of Nunavut, Department of Environment as well as having proper documentation in the form of a waste manifest.

*Water System*

Pumps, tanks and hoses will be drained, dismantled, packaged and stored, with hoses rolled and stored.

*Contamination Clean Up*

Any soil at camp or at the drill sites that may become contaminated will be treated as per the "Oil and Hazardous Waste Materials Spill Contingency Plan". Before and after photographs will be taken to document the contamination and the clean up.

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*Documentation and Inspection*

Equipment and temporary structures left on site will be inventoried. A complete inspection of all disturbed areas (drill sites, camp and fuel caches) will be conducted prior to seasonal closure with a full inventory taken at each location.

**Final Abandonment and Restoration Plan**

*Buildings and Contents*

All reusable equipment like tents, tent frames, stoves, showers etc. will be dismantled, packaged and removed from site. Wooden structures will be dismantled, moved and stored. Nails, screws, anchors and other such parts will be recovered and kept where practical, otherwise packaged and flown out to an approved municipal landfill.

*Drilling Locations*

Drill equipment will be dismantled, packaged and moved to its next location along with its ancillary equipment and rods. All drill locations will be inspected, and all waste will be collected and taken to camp for incineration or removal to an approved disposal location. All sumps will be backfilled and each drill collar will be cut off to ground level. The sites will be inspected for soil contamination.

*Fuel Storage*

All fuel drums will be removed and the areas where there have been fuel caches will be thoroughly inspected. Any contaminated soil will be treated according to the "Oil and Hazardous Material Spill Contingency Plan", and photos will be taken of all caches to include in the final report.

*Waste*

*Combustible waste*

Once the camp is closed, all remaining combustible waste will be burned and the incinerator will be dismantled and moved to an approved disposal site. The soil will be inspected for contamination.

*Non-combustible waste*

Non-combustible waste will be backhauled to Churchill and/or Montreal for proper disposal, or be flown out depending on what transportation methods are available at the time. All carriers and receivers of this material will be informed of the need to register with the Government of Nunavut, Department of Environment as well as having proper documentation in the form of a waste manifest.

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*Water System*

Pump, tanks and hoses will be drained, dismantled, packaged, and removed from the site.

*Contamination Clean Up*

Any soil at camp, fuel caches or drill sites that has become contaminated will be treated as per the "Oil and Hazardous Waste Materials Spill Contingency Plan". Before and after photographs will be taken to document the contamination and the clean up.

*Documentation and Inspection*

A complete inspection of all disturbed areas (drill sites, camp and fuel caches) will be conducted prior to final closure with a full inventory taken at each location. As well, photographs will be taken to document each work area and campsite before, during and after the project is complete. All appropriate agencies will be contacted once the final clean up is complete and we will organize a final site inspection visit with community representatives, Land Use Inspectors and in collaboration with the Nunavut Water Board staff, if requested.

*Cost Estimate of Final Closure*

The Company anticipates that final demobilization would be part of an orderly shutdown of the field program.

Signed "John Gingerich"

December 3, 2010

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**John Gingerich**  
**Chief Executive Officer**  
**Advanced Explorations Incorporated**

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**Date**

Signed "Lou Nagy"

December 3, 2010

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**Lou Nagy**  
**Chief Financial Officer**  
**Advanced Explorations Incorporated**

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**Date**

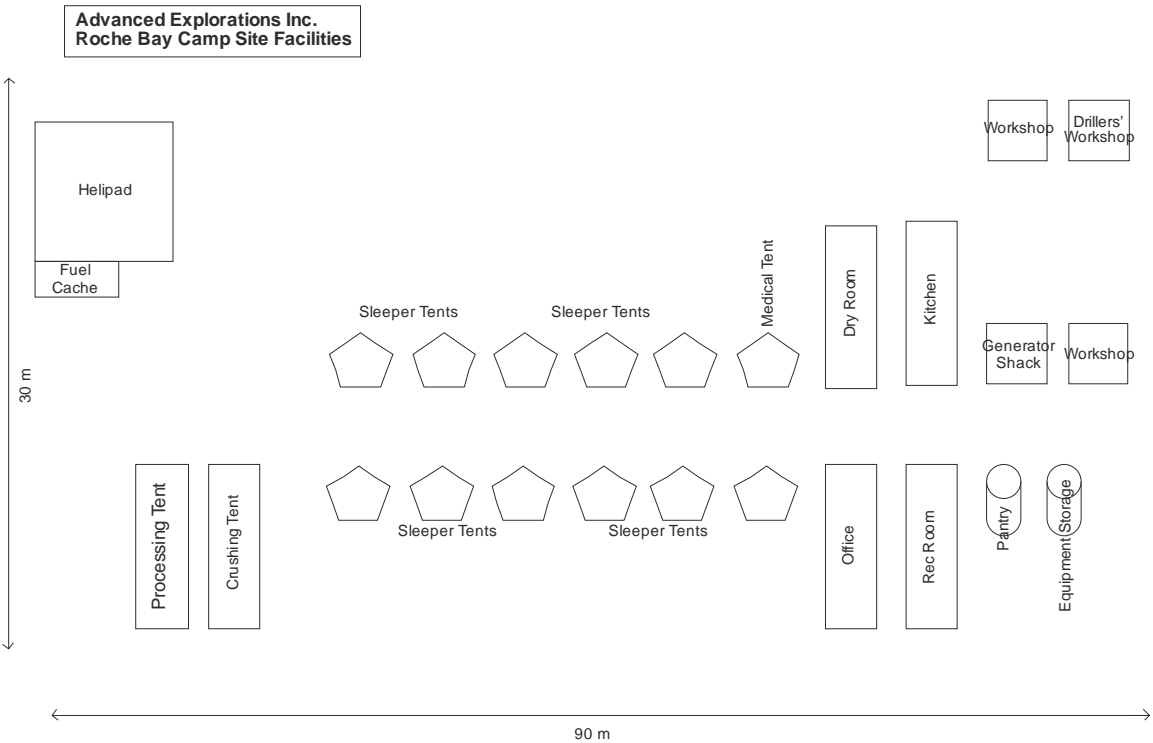




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Figure 2: Schematic of Temporary Exploration Camp Layout



Note: diagram is representative of general site layout only