

Abandonment and Restoration Plan

Belcher Islands Diamond Drilling Program



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Introduction

This abandonment and restoration plan has been prepared to cover the diamond drilling program located on the Belcher Islands, Nunavut. The program is scheduled for May 2012 to April 2014.

Project Location

The project spans five nearby locations: Haig West, Haig Inlet, Kihl Bay, Kugong Island, and Wiegand Island.

The mineral claims covered by Haig West in this A&R plan are (Figure 1):

Tag Number	NTS Sheet
K05276	NTS 34D06, NTS 34D11
K05277	NTS 34D06
K05278	NTS 34D06
K05279	NTS 34D06
K05280	NTS 34D06
K05281	NTS 34D06
K05282	NTS 34D06
K05283	NTS 34D06
K05284	NTS 34D06
K05285	NTS 34D06
K05286	NTS 34D06
K05287	NTS 34D06
K05288	NTS 34D06

Haig Inlet includes the following Inuit Owned Lands (Figure 2):

<u>Haig Inlet IOL Land</u>			
Point	Longitude	Latitude	Comment
A	79° 9' 45" W	56° 16' 00" N	
B	79° 7' 15" W	56° 18' 30" N	
C	79° 6' 22" W	56° 20' 20.10" N	On IOL border
D	79° 3' 11.2" W	56° 20' 42.6" N	On IOL border
E	79° 3' 30" W	56° 19' 30" N	
F	79° 4' 0" W	56° 18' 30" N	
G	79° 4' 45" W	56° 17' 0" N	
H	79° 5' 0" W	56° 16' 0" N	

Haig Inlet also includes the following mineral claims (Figure 2):

Tag Number	NTS Sheet
K14661	34D/11
K14662	34D/11
K14663	34D/06 & D/11
K14664	34D/06 & D/11
K14665	34D/06
K14666	34D/06
K14667	34D/06
K14668	34D/06
K14669	34D/06
K14670	34D/06 & D/07
K14671	34D/06
K14672	34D/06
K14673	34D/06
K14674	34D/06
K14675	34D/06
K14676	34D/06
K14677	34D/06
K14678	34D/06 & D/07
K14679	34D/06 & D/07

The location of the camp is shown in Figure 3. The proposed camp location is approximately 22 km southeast of Sanikiluaq, just north of Haig Inlet. The camp will be located on a flat area at coordinates 56° 21' 32.1192"N, 79° 03' 59.2992W (NTS 34d-44a).

Kihl Bay, Kugong Island, and Wiegand Island include the following Inuit Owned Lands:

<u>Inuit Owned Lands</u>			
Area	Longitude	Latitude	Map
Kihl Bay (min)	78° 52' 00" W	56° 13' 30" N	Figure 4
Kihl Bay (max)	79° 01' 00" W	56° 26' 00" N	Figure 4
Kugong (min)	79° 58' 15" W	56° 10' 00" N	Figure 5
Kugong (max)	80° 06' 45" W	56° 16' 30" N	Figure 5
Wiegand (min)	79° 07' 30" W	56° 36' 30" N	Figure 6
Wiegand (max)	79° 17' 30" W	56° 41' 30" N	Figure 6

Figure 1: Project location map for Haig West mineral claims.

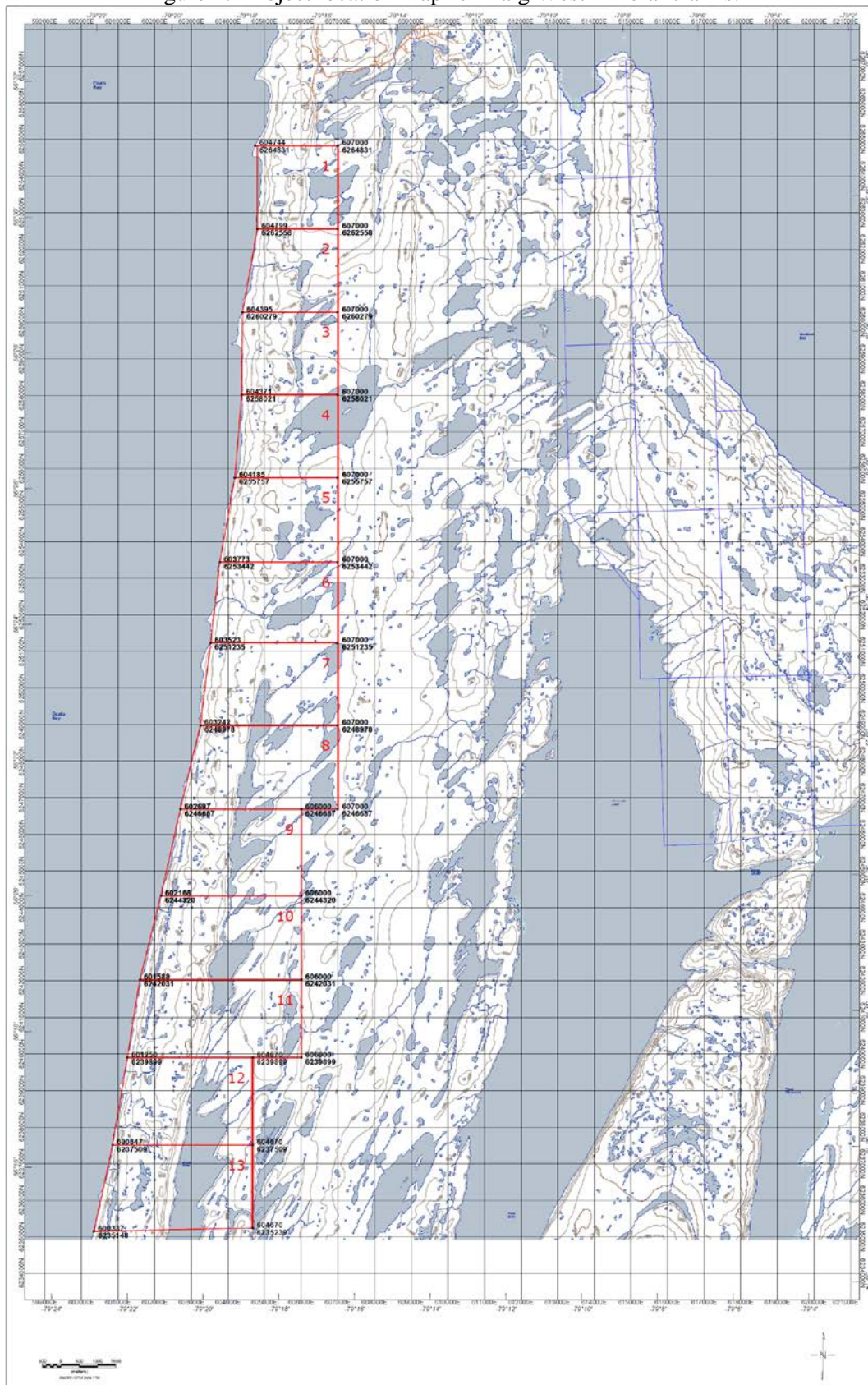


Figure 2: Project location map for Haig Inlet Inuit Owned Lands and mineral claims.

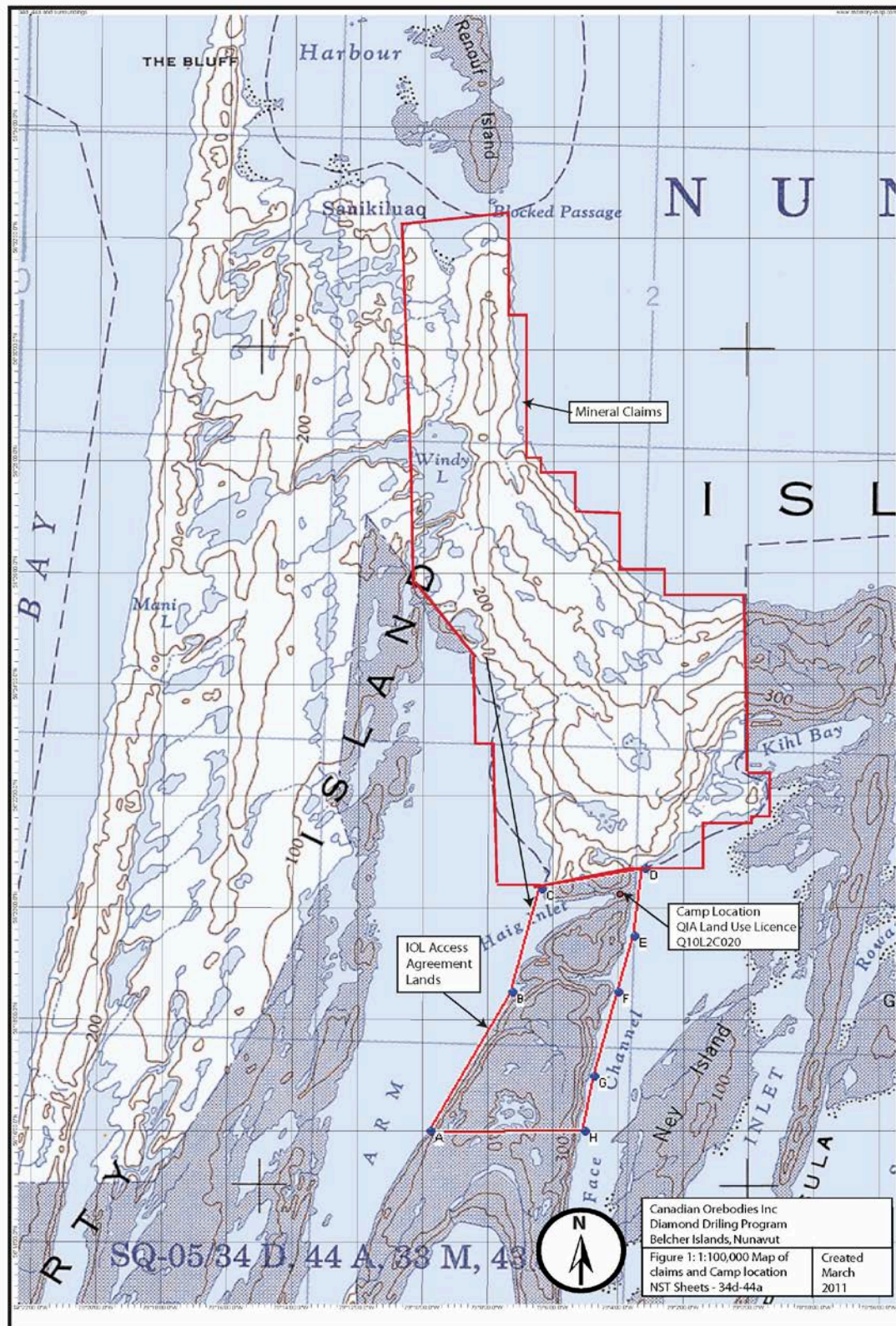


Figure 3 – Camp Location

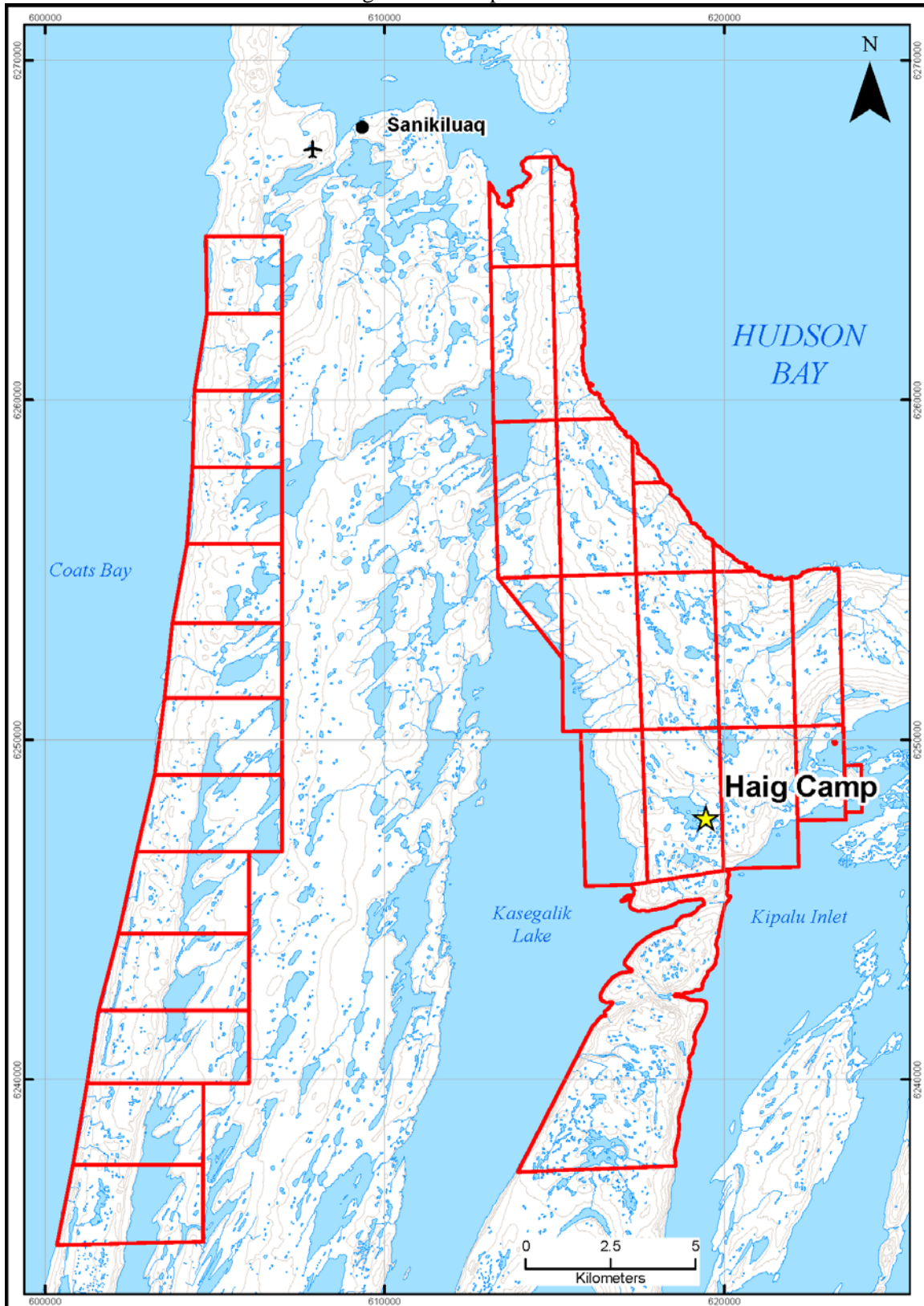


Figure 4 – Project Location Map for Kihl Bay Inuit Owned Lands.

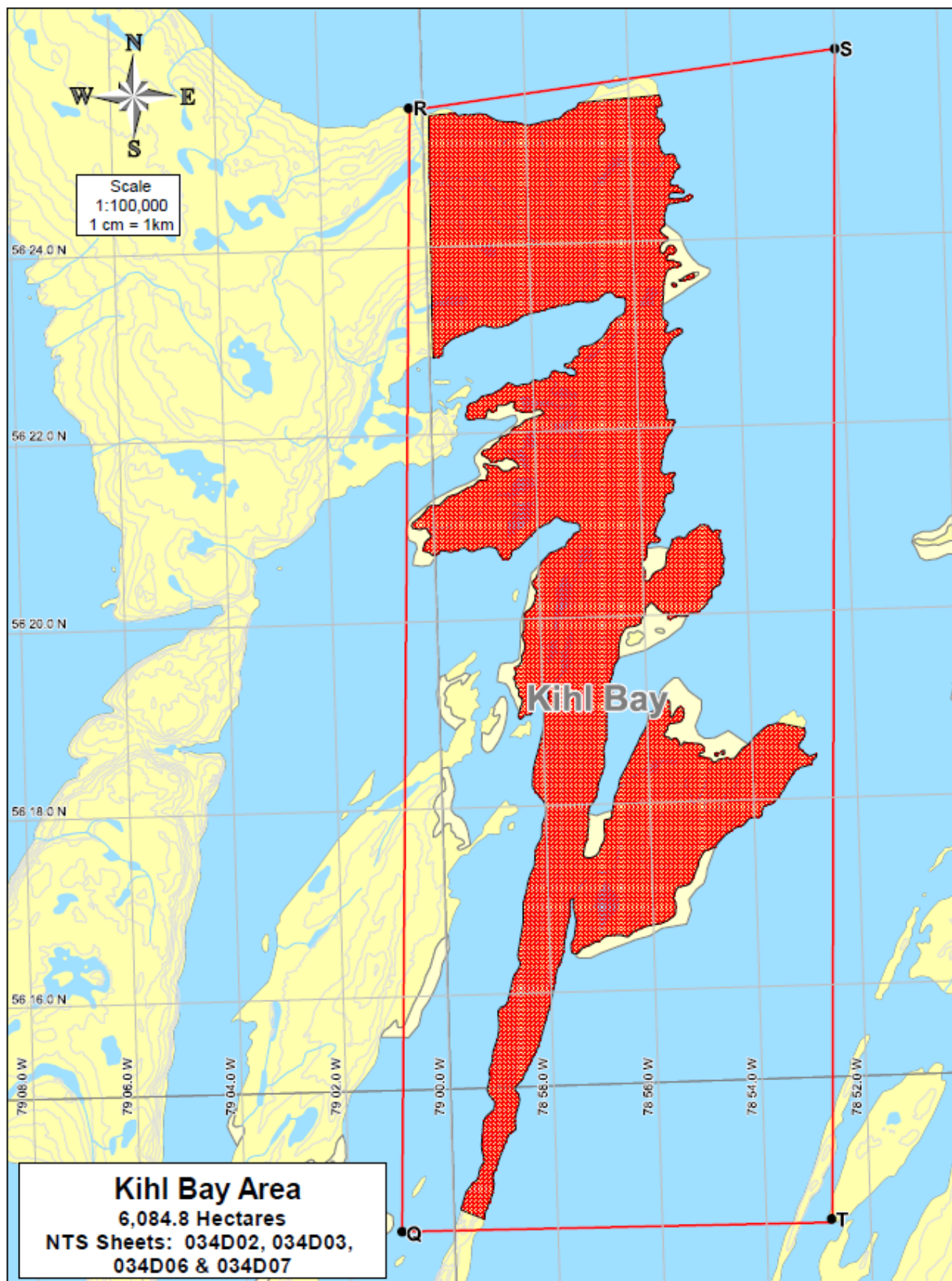


Figure 5 – Project Location Map for Kugong Island Inuit Owned Lands.

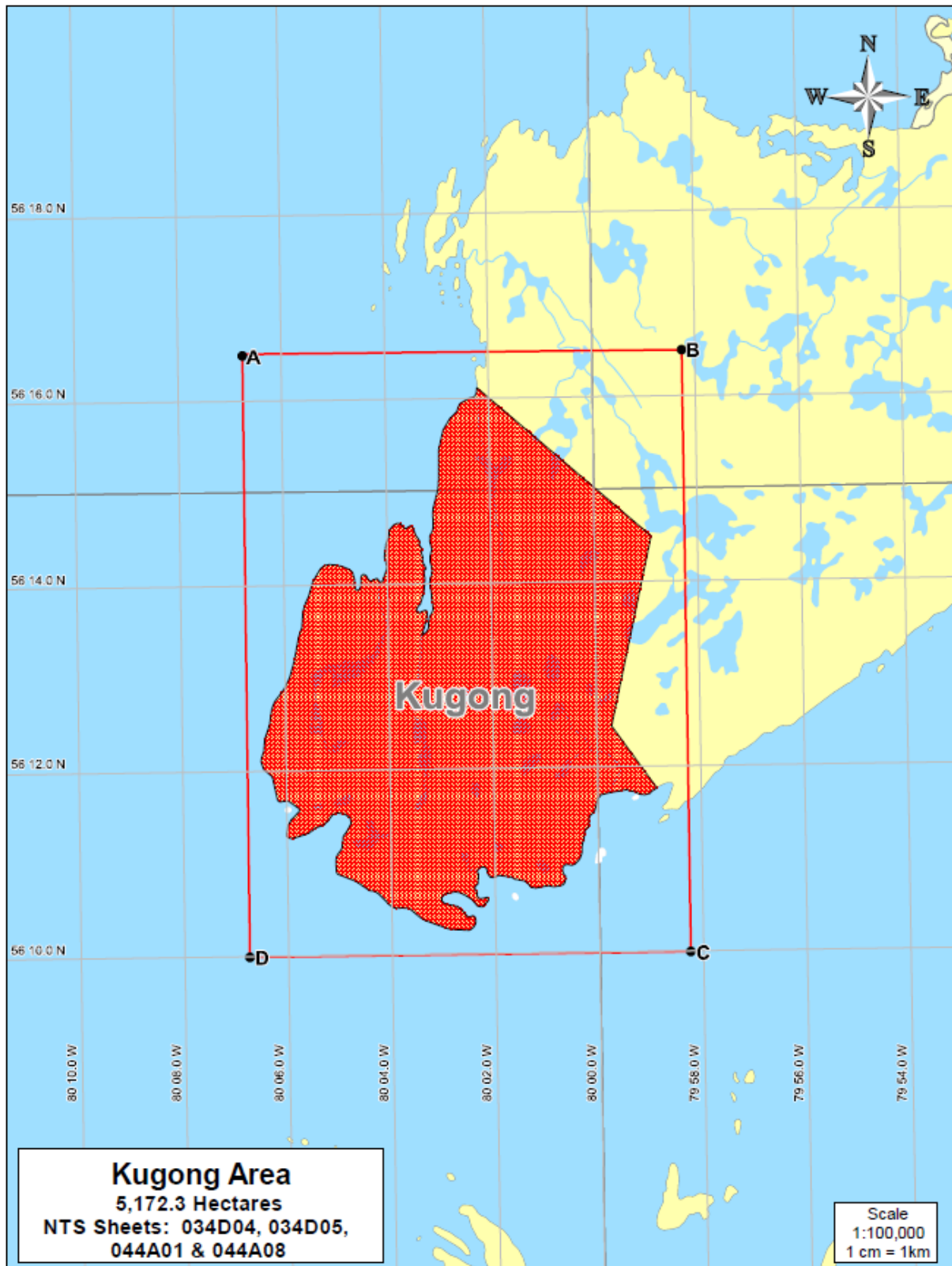
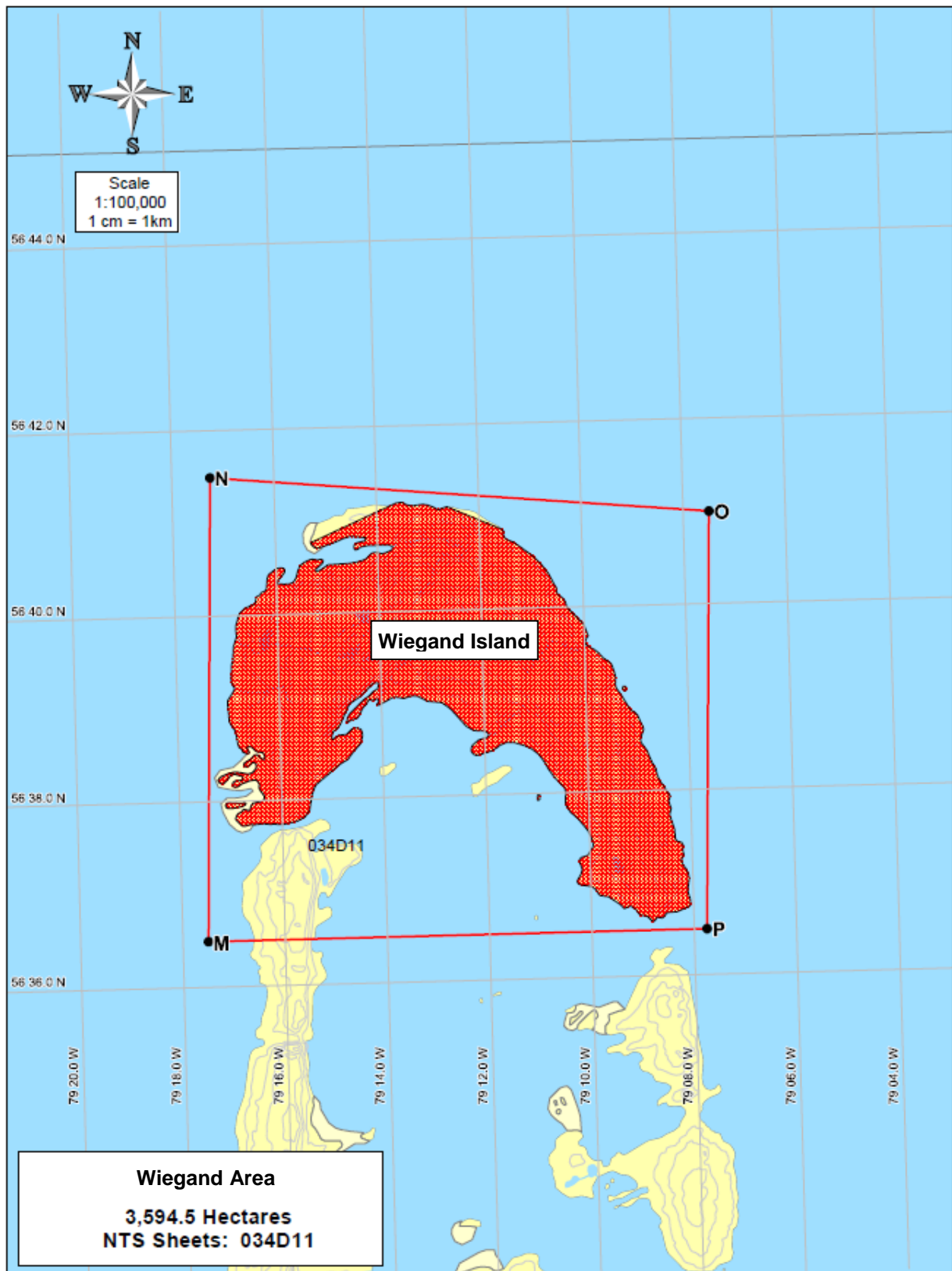


Figure 6 – Project Location Map for Wiegand Island Inuit Owned Lands.



Diamond Drilling

Schedule

The shutdown of the drill operation will be conducted within 5 days of the completion of the drilling activities for the season. Restoration activities at each individual site will occur immediately following the completion of the hole and removal of the drill. This progressive form of restoration results in little to no disturbance to the environment.

All drilling will be conducted seasonally during the months of May through October over a two year period starting May 2012.

Infrastructure Currently on Site

No drilling equipment will be on site until immediately before the program begins. Prior to the program beginning, the drills will be mobilized to the staging area in Sanikiluaq, NU and from there they will be air lifted by helicopter to the individual drill sites.

Seasonal Shutdown and Restoration Plan

Fuel and Chemical Storage Facilities

If the drilling program continues over a multi-year period an inventory of remaining fuel will be made and full drums will be inspected and secured after the first season of drilling.

Empty drums will be flown out to source. Empty propane cylinders will be flown out to source.

Chemical stored on site will consists of drill additives, oil, and grease. All drill additives will be stored in a secure weather proof area at the staging area. Empty containers for drill additives will be removed to an approved municipal landfill.

After the drilling season all activity areas will be inspected for fuel staining and any stained areas will be treated with Biozyme OT 8 Biological Oil Stain Remover (MSDS attached) or removed for disposal in an approved land fill.

Drilling Equipment

If the program continues over a multi year period all drilling equipment will be removed during the period when it is not working.

Documentation

Materials left on site will be inventoried. Photos of storage sites prior to storage will be taken. Once the site secured for the season, it will again be documented with photos.

Camp

Infrastructure on Site

The following is a list of equipment that will be at the Haig Inlet camp site:

- Fridge
- Stove
- Grill
- Kitchen, pots, pan, dishes, ect
- Microwave
- Tables, chairs, ect
- Freezers with food (2)
- Boxed food
- Washer
- Dryer
- Hot water tank
- Water pump (electric)
- Water tank
- Water pump (gasoline)
- Water lines
- Weatherhaven style tents – 16 units
- Heat stoves - 16 units
- Electrical wire and fixtures
- Plumbing and fixtures
- Generator, 50 KW, Diesel Powered
- Quads - 2
- First Aid equipment
- Office supplies
- Small trailer for Quad
- Miscellaneous materials

Seasonal Shutdown and Restoration Plan

Buildings and Content

All equipment will be stored inside the wooden buildings to ensure they will withstand the winter season. Canvas tents will be secured and braced internally to ensure they will withstand snow and wind loads. Wood structures will be secured with nailed plywood over windows and doors to prevent inadvertent opening. The quads will be stored inside the core shacks and shop building.

Water System

Pump, tanks and hoses will be drained and dismantled. Rented equipment will be flown out to owner. Hoses will be rolled and stored in the kitchen.

Electrical System

The generator shed will be inspected for remaining waste (oil, grease) and will be drained of its fuel. Remaining fuel and oil will be collected in the containers labeled for that usage and used through the summer. The generator will be winterized and prepared for startup in spring. The soil surrounding the generator shed will be inspected for contamination. Electrical wires, plugs and sockets will be stored in the kitchen.

Fuel and Chemical Storage Facilities

An inventory of remaining fuel will be made and full drums will be inspected and secured for the winter. Empty drums will be flown out to source. Empty propane cylinders will be flown out to source. Chemical stored on site will consist of drill additives, oil, grease and household cleaners. All drill additives will be stored in or by the drill foreman shed and secured for the winter. Empty containers will be flown out to an approved municipal land fill. For the removal of waste, 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. The soil of the areas will be inspected for contamination.

Waste Facility and Incinerator

Once the camp dismantled and remaining buildings secured, all remaining combustible waste stored at this site will be incinerated. The incinerator will be dismantled and stored in the kitchen. The soil will be inspected for contamination.

Greywater Sump

The greywater sump wood cover will be secured for winter.

Camp site

Soil contaminated by hydrocarbons and unnoticed before abandonment will be treated as per the spill contingency plan.

Documentation

Equipment and buildings left on site will be inventoried. Photos of camp and drill sites prior to building of drilling will be taken. Monitoring will be done during occupancy and photos taken. Once the site secured for the winter, it will again be documented with photos.

Final Abandonment and Restoration Plan**Drilling Areas Restoration**

At the end of the program 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 initially demobilized to Sanikiluaq, NU and then barged off the island.

At the completion of each hole the drill sites will be inspected for soil contamination. Any remaining waste will be taken to the staging area and incinerated (if possible) or flown out to an approved municipal land fill. For the removal of waste, 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. Individual drill sites will be restored immediately after the drill has been moved to the next site. The restoration of the individual drill sites will include:

- Leveling of on-shore sumps and disposal of drill cuttings and disposal in a manner approved by Land Use Inspector
- Removal and treatment of all contaminated snow and ice
- Removal or treatment of oil contaminated soil
- Removal of all drill associated equipment and blocks
- Leveling of any disturbed soil

- Core storage areas will be located at least 100 meters from the high waterline of all water bodies.

Buildings and Content

All the reusable equipment (tents, tent metal frames, stoves, foams, kitchen stove, refrigerator, other kitchen appliances and equipment, showers, hot water tank, etc) will be packaged and flown out from project site. Wood structures like the kitchen, office, outhouses, dry, generator shed, tent wooden floors, beds and tables will be dismantled and burned if approved by the Nunavut Water Board or else removed from the site for suitable disposal at a municipal facility. Nails, screws, anchors and other non-combustible parts will be recovered, packaged and flow out to an approved municipal discharged.

Water System

Pump, tanks and hoses will be drained, dismantled, packaged and flown out. The wooden pump shack built to protect the pump will be burned as for the other wood structures.

Electrical System

The generator shed will be inspected for remaining hazardous waste (oil, grease) and will be drained of its fuel. Remaining waste fuel and oil will be collected in the containers labeled for that usage and used through the summer. The shed will be dismantled and burned. The soil will be inspected for contamination. Electrical wires, sockets, etc will be taken down and either returned with camp material, or flown out to an approved municipal discharge facility.

Fuel and Chemical Storage Facilities

At the completion of the project all fuel containers both full and empty will be removed from the site. In addition the containment berm for the fuel storage will be removed. The area of the fuel storage will then be inspected for staining and undetected spills and any stained or contaminated areas will be treated appropriately. Stained areas will be treated with Biozyme OT 8 Biological Oil Stain Remover. Soil in contaminated areas will be removed to an approved disposal area.

All propane cylinders, full or empty, will be backhauled to source.

Chemicals stored on site will consist of drill additives, and oil. All drill additives will be stored at the staging area. Upon program completion, any unused drilling additive, oil or grease will be returned to the staging area and from there flown out. Half empty containers will be flown out for use or disposal. Empty containers will be removed. For the removal of waste, 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.

Waste Facility and Incinerator

Once the camp is entirely dismantled, all remaining combustible waste stored at this site will be burned. The incinerator will be dismantled, reusable parts will be returned and the barrel will be discarded in an approved municipal discharge.

Greywater Sump

The kitchen-dry greywater sump will be filled back and leveled.

Camp site

The camp site will have a final inspection. Areas showing too much wearing evidences will be covered with a layer of peat moss and lightly fertilized to promote natural growth. Drill core to be left on site will be properly stored and secured.

Documentation and Inspection

Photos of the camp site and all individual drill sites prior to drilling will be taken. Monitoring will be done during occupancy and photos taken. Once the site restored, it will again be documented with photos. Soil contaminated by hydrocarbons and unnoticed before abandonment will be treated as per the spill contingency plan. A final site inspection visit with community representatives, Land Use Inspector and in collaboration with NWB staff will be organized by the permit holder.

Contact List

The Contact list for this project is as follows:

Organization	Personnel	Telephone Number
Canadian Orebodies Inc.	Gordon McKinnon, President & CEO	Tel: 416-644-1747 Cell: 416-919-6187 Fax: 416-628-5911
Nunavut 24-Hour Spill Report Line		867-920-8130
Environment Canada	Jim Nobel, Environmental Enforcement Officer	867-975-4644
Government of Nunavut	Department of Environment	867-975-5900
	Manager Pollution Control and Air Quality	867-975-5907
Government of the Northwest Territories	Department of Environment and Natural Resources	867-920-8130
Indian and Northern Affairs Canada	District Manager, Indian and Northern Affairs, Nunavut Field Operations, Iqaluit, Nunavut	867-975-4295
	Water Resources Manager	867-975-4550
	Resource Management Officer – Kitikmeot	867-982-4306
RCMP	Arctic Bay	867-439-1111 867-439-0123
QIA		867-979-5391 800-667-2742
Nunavut Water Board		867-630-6338
Iqaluit Qikiqtani General Hospital	Iqaluit	867-975-8600
Arctic Bay Health Centre	Arctic Bay	867-439-8873