

Arviat Assistant Diamond Driller Training Program

Non-Technical Summary

Overview

The Hamlet of Arviat is planning an Assistant Diamond Driller Training Program. It is expected that the program will run twice yearly for 10 weeks, commencing in September 2011. The program will be delivered in Arviat by trainers from Northern College (Kirkland Lake) and Nunavut Arctic College.

This program has funding support from the Government of Nunavut, the Kivalliq Inuit Association, the Kivalliq Mine Training Society, the Contaminants Remediation Training Organization of Canada, Agnico-Eagle Mines, Orbit Garant Drilling Services and Boart Long year Canada.

Training will include field practice with a diamond core drill to ensure that trainees are familiar with the safe operation of the drill. There is also strong emphasis on environmental awareness and compliance with environmental regulations.

The Hamlet is proposing two locations adjacent to an existing road East of the South end of the Arviat runway: **Site 1** – is an area of approximately 60 x 100 metres, **Site 2** – is an area in the floor of the existing gravel pit. Both areas are within the Hamlet municipal boundary, with current uses including the municipal sewage lagoon, garbage disposal and solid waste sites and a gravel pit.

Site equipment and facilities would include the drill and associated drill shack, pumps, heaters, tools, generator and fuel storage. There will also be two 20 foot 'sea-cans' set up as a dry shack and tool storage container.

Environmental Considerations

- ✓ **Sites** – Sites will be left in a safe and secure condition at the end of each course. On conclusion of the program all materials will be removed.
- ✓ **Fuel/Lubricants** - The drill, heaters and water pumps water heaters are powered by diesel fuel. (maximum 30,000 litres per year). Fuel will be stored in a double-walled tank on skids. Trainers are fully qualified in spill prevention and response
- ✓ **Water** - The drilling process will uses a maximum of 1,250 cubic metres of water per year. Water will either be obtained from local ponds adjacent to the drill sites or delivered by hamlet water truck
- ✓ **Drilling waste** –Drilling produces rock flour mixed with drill water. This will be pumped into a pit, where drill water will drain and rock flour will settle.
- ✓ **Other Waste** - There will be a requirement for sanitary facilities and the use of lubricants and disposal of wastes (sewage, garbage, lubricant containers). This will be disposed in approved municipal sites.

