

Canada

Environment Environment Canada

Northern Division Environmental Protection Branch Prairie and Northern Region #301 - 5204 - 50th Ave Yellowknife, NT X1A 1E2 Ph. (867) 669-4700

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Our File: 4703 001 001

Gladys Joudrey Environmental Assessment Officer Nunavut Impact Review Board P.O. Box 2379 Cambridge Bay, NT X0E 0C0

Dionne Filiatrault Technical Advisor Nunavut Water Board P.O. Box 119. Gjoa Haven, NT X0E 1J0 By Facsimile: (867) 983-2594

By Facsimile: (867) 360-6369

WMC International Renewal Application - NIRB File 01WR005; Water Licence Re: NWB2MEL01 - Meliadine Lake Project

I have reviewed the above application on behalf of Environment Canada (EC), and offer the following comments for your consideration.

WMC International proposes to continue delineation drilling using three small diameter diamond drills, based from their existing camp to the south of Meliadine Lake. Proposed mitigation addresses concerns which pertain largely to waste management, including:

- treatment of drill effluent with removal of cuttings to a landfill, for all lake-based drilling;
- sump disposal of land-based drilling cuttings, with subsequent remedial measures;
- spill contingency planning and availability of spill cleanup kits at drilling sites and fuel storage locations;
- incineration of sewage and camp wastes, with non-combustibles disposed to a landfill;
- sump disposal of greywater;
- removal of waste oil and hazardous wastes to Rankin Inlet for disposal;

Comments and Recommendations

Two additives are listed for use in drilling operations. It should be noted that an assessment of CaCl as a toxic substance under the Canadian Environmental Protection Acts in the final stages, and that its use for ice-based drilling is discouraged. For use on land-based drilling, it is recommended that sump closure measures include documentation of effects on vegetation for holes which used CaCl as an additive. It should be ensured that any such sumps are a sufficient distance from water that runoff into streams or lakes doesn't occur.







No details are provided at this time on drilling and sump locations. The following standard conditions should address concerns with siting and general operations.

- The applicant shall ensure that any drill cuttings, chemicals, fuel or wastes associated with the proposed project do not enter waters frequented by fish. All sumps, spill basins and fuel caches should be located a minimum of thirty (30) meters from the normal high water mark of any such waterbody.
- 2. EC encourages exploration companies, when storing barreled fuel at a location, to use a secondary container rather than relying on "natural depressions". There are self supporting instant berms now available from various suppliers within Canada and if these "insta-berms" are used properly it will virtually eliminate the possibility of ever having to deal with petroleum contaminated soils.
- Drilling additives or mud shall not be used in connection with holes drilled through the lake ice
 unless they are recirculated or contained such that they do not enter the water, or
 demonstrated to be non-toxic.
- 4. With respect to access road construction, pad construction or other earthworks, the deposition of slash, debris or sediment into any waterbody is prohibited. These materials shall be disposed of above the high water mark in such a fashion that they do not enter the water.
- If artesian flow is encountered, drill holes shall be plugged and permanently sealed upon project termination.
- 6. The permittee shall not erect camps or store material on the surface ice of streams or lakes.

Please do not hesitate to contact me at (867) 669-4735 with any questions or comments regarding the foregoing.

Yours truly,

Anne Wilson

Water Pollution Specialist

m.a. wilson

cc: Steve Harbicht (Head, Assessment & Monitoring, EPB)
Paula Pacholek (Coordinator, EPB)
Wade Comin (Inspector, EPB Igaluit)