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NUNAVUT WATER BOARD
NUNAVUT IMALIRIYIN KATIMAYINGI

February 26, 1998

Mr. Leo Caouette
CWMS Trainer
Hamlet of Baker Lake,
Baker Lake, NT X0E 0A0

COPY

RE: BAKER LAKE WATER QUALITY STUDY

Dear Mr. Caouette:

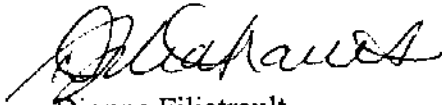
The Nunavut Water Board reviewed the "Baker Lake Water Quality Study" required under Part D, Item 2 & 3 of the Hamlet's Water Licence N6L3-1191. Based on the objectives set out in the Terms of Reference attached to the licence, we would like to present the following:

- i. The Guidelines for Canadian Drinking Water Quality were never exceeded in any of the samples taken; therefore, there may not be health risks associated with the community's drinking water supply;
- ii. The "Surveillance Network Program" monitoring station 1191-2 identified in the licence as the "Run off below the Waste Disposal Facilities" should be interpreted as "Upstream from the inlet to Airplane Lake, upstream from the culvert." The Licensee is required to implement the above and start sampling as required in the SNP;
- iii. Based on the results of the study, the level of contamination between Station C and D is unclear; additional analysis shall be performed to confirm that the quality of water in Airplane Lake meets the guidelines for the protection of freshwater aquatic life. In addition, the NWB is requesting that an additional SNP station be located at the outlet of Airplane Lake. The SNP is therefore amended to include Station 1191-3 identified as the Outlet of Airplane Lake in the enclosed SNP Amendment no. 1 that shall be appended to your licence;
- iv. Water samples that were analyzed indicated elevated levels of Phenols, Total Copper, Total Iron, and Total Lead. The source of these contaminants is unknown but it is likely to be associated with the proximity of a solid waste disposal site. Consequently, the Licensee is required to submit its Operation and Maintenance Plan for the Waste Disposal Facilities as soon as possible. The plan should address the issue of hazardous wastes and leachate management, clearly identifying drainage paths from all disposal sites, whether they are abandoned or in use. We would recommend that the Operation and Maintenance

Plan deals with this issue for all known disposal sites.

In conclusion, the Nunavut Water Board approves the "Baker Lake Water Quality Study" and requests that the above conditions be implemented as soon as possible. Should you require clarification, please do not hesitate to contact me at (867) 360-6338.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dionne Filiatrault', written in a cursive style.

Dionne Filiatrault
Technical Advisor

c.c. DIAND Water Resources