



DIAND Nunavut District
Box 100
Iqaluit, NT
XOA OHO

March 23, 1998

Mr. Dennis Zettler
Senior administrative Officer
Hamlet of Baker Lake
Baker Lake, NT
XOC OAO

NUNAVUT WATER BO

MAR 31 1998

PUBLIC REGISTRY

Your file Votre référence

Our file Notre référence

B9545-5-N6L3-1991

Dear Mr. Zettler;

Review of 1997 Annual Report and 1997 Compliance Report

1. Please accept this letter as notification that the 1997 Annual Report submitted by the Hamlet of Baker Lake and as required by water licence N6L3-1991 has been reviewed. Some deficiencies were noted and are detailed in the attached Compliance Report.
2. Compliance Reports are prepared annually in order to judge the Licensee's compliance with the terms and conditions of their licence.
3. Deficiencies noted within the Annual Reports included: inadequate and incomplete SNP data collection and reporting, spill reporting, lack of warning and SNP signage
4. By copy of this letter, the Nunavut Water Board is asked to provide a status of the O+M plan that was submitted on behalf of the Licensee in November of 1996.
5. This office will provide assistance, if asked, to the Licensee in the form of sample bottles, preservatives and advice for meeting the sampling requirements of the licence.
6. Please do not hesitate to contact me to discuss any aspects of this report at the above address or by phone at (867)-979-4405.

Sincerely,

Paul Smith
Water Resources Officer
Nunavut District

- cc. - Nunavut Water Board, Gjoa Haven
- DIAND Water Resources, YK
- RMO, DIAND, Rankin Inlet

1997 COMPLIANCE REPORT

ON

CONDITIONS OF LICENCE NUMBER N6L3-1191

HELD BY THE HAMLET OF BAKER LAKE

PREPARED BY

PAUL SMITH

INSPECTOR UNDER THE NORTHWEST TERRITORIES WATERS ACT

DIAND NWT REGION

NUNAVUT DISTRICT

IQALUIT, NT

DATE: MARCH 19, 1998
WATER REGISTER: N6L3-1191

Introduction

1. The Licensee did not submit a 1996 Annual Report and as such, the matter of compliance is straight forward - the Licensee was not in compliance with their water licence. With the submission of the 1997 Annual Report, a detailed yet constructive review can be carried out with the purpose of providing direction to the Licensee on any remaining issues that must still be addressed. The Licensee is permitted to use 100,000 cubic metres of water per year and the licence is valid from September 1, 1993 to August 31, 1999 inclusive.

Part A: General Conditions

2. (B, Item 1). The Annual Report was submitted to the Nunavut Water Board on March 9, 1998, well within the March 31st deadline.

3. (B, Item 1a). The Licensee has submitted water quality information that was collected by this office on August 6, 1997. This is not appropriate, as this office is not named in the licence as to having to provide this information. In addition, this data does not meet the sampling requirements of the licence, both in frequency and parameters sampled. Specifics are discussed below in the Surveillance Network Program.

4. (B, Item 1b). The Licensee has complied with this section as a monthly and annual quantity of water pumped from Baker Lake (SNP Station 1191-1) is reported. The Licensee reports using 41,214 m³ of water in 1997. The licence permits the usage of up to 100,000 m³/year.

5. (B, Item 1c). The Licensee has complied with this section as the monthly and annual quantity of sewage wastes disposed of is reported. The Licensee reported the disposal of 42,858 m³ of sewage in 1997.

6. (B, Item 1d). The Licensee has complied with this section as a detailed description of work is provided for the water supply and waste disposal sites.

7. (B, Item 1e). The Licensee has complied with this section as a summary of A+R activities is provided.

8. (B, Item 1f). The Licensee reports that there were no unauthorized discharges in 1997. This is not correct as there were 3 spills reported. Spill 97-252 was reported by the Hamlet Foreman. Spill 97-185 occurred at the Visitor's Centre and the Hamlet Foreman was asked to fix a leaky fuel line joint.

9. (B, Item 1g). The Licensee has provided a summary of the improvements to the water intake/pumping facilities that are planned for the coming year.

10. (B, Item 1h). Not applicable.

11. (B, Item 2). The Licensee has not complied with this section dealing with sampling per SNP requirements.
12. (B, Item 4). Although there are signs at the dump designating specific areas of waste disposal, there are no warning signs per say. During the 1997 Inspection, warning signs were noted to be required. The Licensee must address this requirement.
13. (B, Item 5). The Licensee has complied with this section. There are no concerns with metres or flow measuring devices.
14. (B, Item 6). The Licensee has yet to post any of the necessary SNP Station signs. Now that the Nunavut Water Board has officially designated the location of 1191-2 and has further identified the need for a station (1191-3) at the outlet of Airplane Lake, the Licensee should erect these 3 signs this coming summer.
15. (B, Item 7). Three spills were reported to the NWT Spill Line in 1997.

Part C: Conditions Applying to Water Use

16. (C, Item 1). The Licensee has complied with this section.
17. (C, Item 2). The Licensee has complied with this section.
18. (C, Item 3). Concerns have been expressed to the Inspector in the past about the quality of the potable water. Improvements are being planned this coming year which should address these concerns.
19. (C, Item 4). As the water intake and pumphouse is located on the lake shore in the centre of the Hamlet, it is impossible to ensure that all accumulated snow and debris that collects over the winter months can be removed prior to the spring freshette. Likewise, preventing run-off from the Hamlet proper from entering Baker Lake is a futile exercise and any effort made will be acceptable.

Part D: Conditions Applying to Waste Disposal

20. (D, Item 1). The Licensee has complied with this section.
21. (D, Item 2). This study was completed a number of years ago by DIAND. The Nunavut Water Board approved this study with some recommendations on February 26, 1998.

22. (D, Item 3). No longer applicable.
23. (D, Item 4). Although the Licensee did not collect any samples to ensure that they were meeting the effluent guidelines, samples were collected by the Inspector. No 'Oil & Grease' sample was collected (as no sheen was noted), but all other parameters are well within licence limits and continue to indicate that the wetlands sewage treatment is operating in an entirely satisfactory way.
24. (D, Item 5). The Licensee has complied with this section with the exception of ensuring proper signage (i.e. warning signs).
25. (D, Item 6). The Licensee has complied with this section.
26. (D, Item 7). The Licensee has complied with this section.

Part E: Conditions Applying to Abandonment and Restoration

27. (E, Items 1&2). Not applicable at this time.

Part F: Conditions Applying to Modifications

28. (F, Item 1&2). The Licensee has complied with these sections (with respect to proposed upgrading to water intake and pumping facilities).
29. (F, Item 3). Not applicable at this time. As-built drawings will be required once the above noted improvements have been made.

Part G: Conditions Applying to Operation and Maintenance

30. (G, Item 1). The Licensee submitted an O+M plan to the Inspector on November 1, 1996. It was then forwarded to the Nunavut Water Board under cover of letter dated November 12, 1996. No further record exists on file as to the acceptability of this plan or if the Hamlet was directed to further address particular issues.

Surveillance Network Program

SNP, Part B: Sampling and Analysis Requirements

31. (SNP, B, Item 1). The Licensee has failed to collect any of the required samples. Submitting the results collected by the Inspector does not meet the sampling requirements.
32. (SNP, B, Item 2). As above, the Licensee has failed to meet the sampling requirements.

SNP, Part C: Flow and Volume Measurement Requirements

33. (SNP, C, Item 1). The Licensee has met this reporting requirement.

SNP, Part D: Reports

34. (SNP, D, Item 1). The Licensee has failed to meet this condition as they collected none of their own SNP data.

Conclusion

35. The Hamlet of Baker Lake's compliance with the Northwest Territories Waters Act and Water Licence N6L3-1191 has been unacceptable for the following reasons:
- a. The Licensee has failed to collect any SNP data. See paragraphs 3, 11, 30 and 31.
 - b. The Licensee provided incorrect information with respect to spill reporting within their Annual Report. See paragraph 8.
 - c. Warning signs at the water supply and waste disposal facilities are required. See paragraph 12.
 - d. The Licensee must post SNP Station Signs at the designated sites. See paragraph 14.

Paul Smith
Water Resources Officer
Nunavut District