



DIAND Nunavut District  
Box 100  
Iqaluit, NT  
XOA OHO

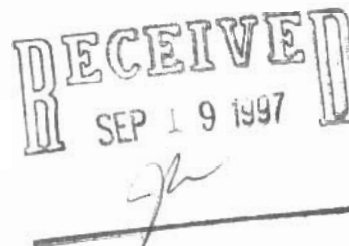
Your file    Votre référence

Our file    Notre référence

12 September 1997

B9545-5-N6L4-1538

Mrs. Alina Sammurtok  
A/Senior Administrative Officer  
Hamlet of Chesterfield Inlet  
Chesterfield Inlet, NT  
XOC OBO



Dear Mrs. Sammurtok;

**Water Licence Inspection - August 6, 1997**

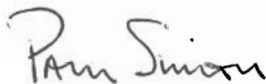
1. Attached for your information is a copy of the inspection report prepared as a result of the water licence inspection carried out on water licence N6L4-1538 held by the Hamlet of Chesterfield Inlet.
2. There are a number of unresolved issues that were identified during last years inspection that have yet to be addressed. The following is a list of outstanding issues that require your attention:
  - ☐ (Part B, Item 1). An annual report should have been submitted by March 31st. It is now 5 months late. I refer you to the licence which outlines the information required for submission. In addition, please find attached a copy of an older blank annual report form which has been provided to the Hamlet in the past in order to assist them in completing this reporting requirement.
  - ☐ (Part D, Item 2). This clause requires the Hamlet to prepare and submit a plan for upgrading the sewage disposal facilities. This clause and Part D, Item 4 indicate that a sewage lagoon is the anticipated method of sewage treatment. As this does not accurately reflect the treatment methods of sewage in your community which appears to be ideally suited for a process called 'wet-lands' treatment. I would suggest that you contact the Nunavut Water Board and request that these clauses be removed from the licence as they are outdated.
  - ☐ (Part D, Item 5). This clause requires a proposal be submitted for the upgrading of the waste disposal site. This proposal was due by August 1, 1994. MACA has already provided funds

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and the work has been completed (primarily last year). If not already done so, a copy of MACA's plans should be submitted to the Nunavut Water Board for their approval and information.

- ☐ **(Part D, Item 9).** An assessment of abandoned waste disposal sites was due to be submitted to the Water Board by August 1, 1994. This remains an outstanding issue. I can only suggest that you contact MACA in order to have this study initiated as MACA has been funding similar work in other Keewatin communities.
  - ☐ **(Part D, Item 11).** This clause requires an Abandonment and Restoration Plan to be submitted to the Board for approval before any waste disposal site is abandoned. As the Hamlet has started using a new site (and consequently abandoned an old site), a plan for the A+R of this old site is required. As MACA has funded the construction/relocation of the new site, they should also assist the Hamlet in preparing the A+R plan.
  - ☐ **(Part E, Item 4).** This clause requires updated information, including location description, operational changes, plans to meet water quality discharge guidelines, and an operation and maintenance plan.
  - ☐ **(Part F, Item 1).** This clause requires an Operation and Maintenance plan to have been submitted by February 1, 1994. A copy of an approved O+M plan was provided to the Hamlet last year. In addition, the aspects to be considered for the O+M plan are outline in some detail within this section of the licence.
  - ☐ **(SNP, Part B, Items 1+2).** These clauses identify the water samples that must be collected along the sewage and dump drainage routes.
3. Consideration should be made is to contact the Nunavut Water Board to request a time extension, where applicable, for those outstanding clauses that must still be addressed.
4. As it stands now, the Hamlet has failed to comply with many aspects of the licence, and consequently, with the *NWT Waters Act*. Your prompt attention to address these issues is required.
5. Please do not hesitate to contact this office if additional information or clarification is required.

Sincerely,



Paul Smith  
Water Resources Officer  
Nunavut District

cc. - Nunavut Water Board, Gjoa Haven  
- DIAND Water Resources, YK  
- RMO, DIAND, Rankin Inlet  
- MACA, Rankin Inlet (Don Forsyth)  
- Public Health, Rankin Inlet (Leslie Moody)

**ANNUAL REPORT  
FOR THE HAMLET OF CHESTERFIELD INLET**

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence N6L4-1538, issued to the Hamlet of Chesterfield Inlet.

**Part B: Item 1**

a) Tabular summaries of all data generated under the "Surveillance Network Program"

Month being Reported	Water Quantity from 1538-1 (First Lake)	Water Quantity from 1538-2 (reservoir)	Effluent to 1538-3 (Sewage Disposal Facilities)
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

Note: Volumes are to be expressed in Cubic Metres - 1 Cubic Metre equals 1000 litres

As well, the licensee is required to include the analytical results of any samples collected pursuant to Part B Items 1 and 2 of the Surveillance Network Program annexed to Water Licence N6L4-1538.

b) Summary of modifications or major maintenance work carried out on the Water Supply or Waste Disposal Facilities, including all associated structures and facilities.

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c) A summary of abandonment or restoration work done.

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d) A summary of any unauthorized discharges that occurred in the Community.

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e) The results of any studies conducted and a brief description of further studies planned.

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f) Updates or revisions to the sewage and solid waste Operation and Maintenance Plan.

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g) Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported.

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Note: Please send the Annual Report to the <sup>Nunavut</sup> ~~NWT~~ Water Board

c/o Mr. Gordon Wray  
Chairman of the Water Board  
Box 1500  
Yellowknife, NT  
X1A 2R3

Nunavut Water Board  
Box 119  
Gjoa Haven, NT  
X0E 1J0



## MUNICIPAL WATER USE INSPECTION FORM

E: 6 August '97 COMPANY REP.: Harry Aggarwal (Hamlet Foreman)  
LICENCEE: Hamlet of Chesterfield Inlet LICENCE #: N6L4-1538

### WATER SUPPLY

Source (s): Reservoir / First Lake Quantity Used (to date): ~10,000 m<sup>3</sup>/year  
Owner/Operator: DPW/Hamlet (estimate or actual)

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable

Intake Facilities: A Storage Structure A Treatment Systems A Chem. Storage A  
Flow Meas. Device A Convey. Lines A Pumping Stations A

Comments: The Hamlet is in the process of assuming roles and responsibilities held by the GNWT (DPW & S).

### WASTE DISPOSAL

Sewage Sewage Treatment System (primary, secondary or tertiary) Probably secondary  
Natural Water body \_\_\_\_\_ Continuous Discharge (land or water) to pond/land  
Seasonal Discharge ✓ Wetlands Treatment ✓ Trench \_\_\_\_\_  
Solid Waste: Owner/Operator: DPW/Hamlet  
Landfill \_\_\_\_\_ Burn & Landfill ✓ Other \_\_\_\_\_

Indicate: A - Acceptable U - Unacceptable N/A - Not Applicable

Disch. Quality Samples collected Decant Structure N/A Erosion N/A  
Disch. Meas. Dev. N/A Dyke Inspection N/A Seepages N/A  
Dams, Dykes N/A Freeboard N/A Spills Note 2  
Construction N/A O & M Plan Note 1 A & R Plan Note 3  
Periods of Discharge: Summer Effluent Discharge Rate: unknown

Comments: \_\_\_\_\_

### FUEL STORAGE

Owner: \_\_\_\_\_ Operator: \_\_\_\_\_ Condition of Tanks: \_\_\_\_\_  
Berms & Liners \_\_\_\_\_ Water within berm: \_\_\_\_\_ Evidence of Leaks: \_\_\_\_\_  
Drainage Pipes \_\_\_\_\_ Pump Station and Catchment Berm: \_\_\_\_\_  
Pipeline Condition \_\_\_\_\_ Not Applicable: ✓

### SURVEILLANCE NETWORK PROGRAM

Samples Collected: (Hamlet) Note 4  
(DIAND) 1538-1, 1538-4  
Signs Posted: SNP All posted Warning Posted  
Record & Reporting 1996 Annual Report not yet submitted

Geotechnical Inspection: N/A

Non-Compliance of Act or Licence: A number of reports/planning studies are required. These include: a proposal for upgrading the sewage disposal facility; a proposal for upgrading the solid waste disposal facility; a study on existing abandoned waste disposal facilities; a study on existing A & R plan; an O & M plan

Page 2 attached Yes ✓ No \_\_\_\_\_

Licensee Representatives Title

Not Available  
Licensee Representatives Signature

Inspectors Name

Paul Smith  
Inspectors Signature

Hamlet of Chesterfield Inlet  
Water Licence N6L4-1538

August 6, 1997

### Water Supply

No concerns noted. Reservoir is fenced and has appropriate warning signs and SNP station signs. First Lake (reservoir supply) also has warning and SNP station signs. Water use is well within the permitted 20,000 m<sup>3</sup> per year.

### Waste Disposal

A new waste disposal site is now being used. It is located in an area below the abandoned site, and off to the side. The area is fenced and there are warning and SNP station signs posted. The improvements to the sewage disposal facilities relate to a proper truck discharge point. The sewage treatment system is of the wet-lands type and appears to work very well. There is heavy vegetative growth and within 200m of the disposal point, the effluent is clear and there are small water organisms (*daphnia sp.*) living in the flow indicating that ammonia levels are not toxic to that species at that point.

Other concerns identified in the last inspection have largely gone unaddressed. These relate primarily to the provision of plans/studies.

Part D, Item 2 of the licence requires sewage disposal upgrade plans, with the addition of a lagoon as the goal towards which the Licensee is to work towards, to have been submitted by August 1, 1994. As this clause does not accurately the sewage disposal methods currently in place, the Hamlet must initiate actions to have the licence amended to reflect the direction that the Board wishes the Hamlet to move with regards to sewage treatment.

Part D, Item 5 of the licence requires the Licensee to develop a proposal for the upgrading of the waste disposal site. This proposal was due by August 1, 1994. However, MACA has already funded work to make improvements to the facility. If not already done so, a copy of MACA's plans must be submitted to the Nunavut Water Board. The improvements that have been made do not specifically address Part D, Item 5a dealing with the waste oil.

Part D, Item 9 of the licence requires an assessment of any abandoned waste disposal site to have been submitted to the Water Board by August 1, 1994. This clause has not yet been met.

**Note 3**

Part D, Item 11 of the licence requires an abandonment and restoration plan to be submitted prior to the abandonment of waste disposal facility. With the introduction of the new site, an A+R plan should have already been submitted. The Licensee has yet to do this. As MACA has funded the construction/relocation of the new site and was also budgeting for the clean-up of the old site, the Hamlet should approach MACA for assistance in preparing the A+R plan.

Part E, Item 4 of the licence requires information to be submitted on the new waste disposal site including a location description, operational changes, plans to meet water quality guidelines, and an operation and maintenance plan.

**Note 1**

Part F, Item 1 of the licence requires an Operation and Maintenance plan for the waste disposal site to have been submitted by February 1, 1994. An approved O+M plan is more important than ever now that a new waste disposal site is being used. Both the Licence (in Part F, Item 1) and the Nunavut Water Board can provide guidance as to the topics that should be addressed.

**Note 4**

SNP, Part B, Items 1+2 of the licence specify the water samples that must be collected. The licence requires that sewage effluent and dump leachate samples be collected during the summer. Results of these samples must be submitted with the Annual Reports.

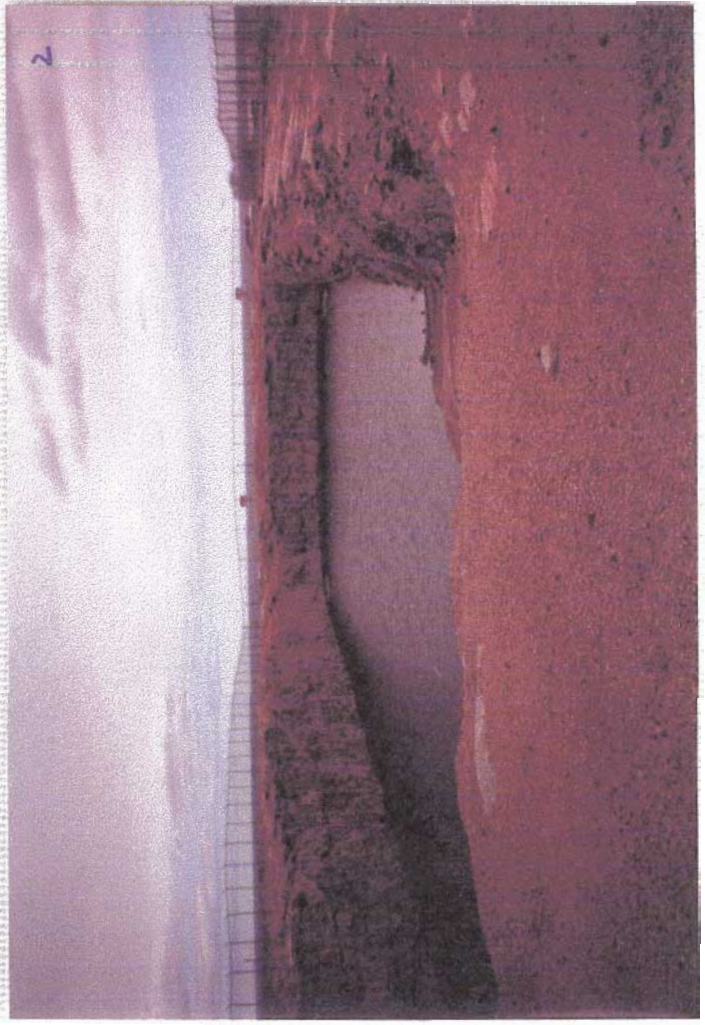
**Note 2**

There are no particular spills, only of note is the waste oil storage area which is heavily stained. Drums should be stored upright in sound containers and preferably on pallets.

Mr. Roy Mullins is no longer the SAO. Mrs. Sammurtok is the A/SAO and staffing actions were being initiated. Mr. Mullins left in January and as a result, many of the conditions of the licence were not properly addressed. In addition, the 1996 Annual Report was not submitted. It is now 5 months late.

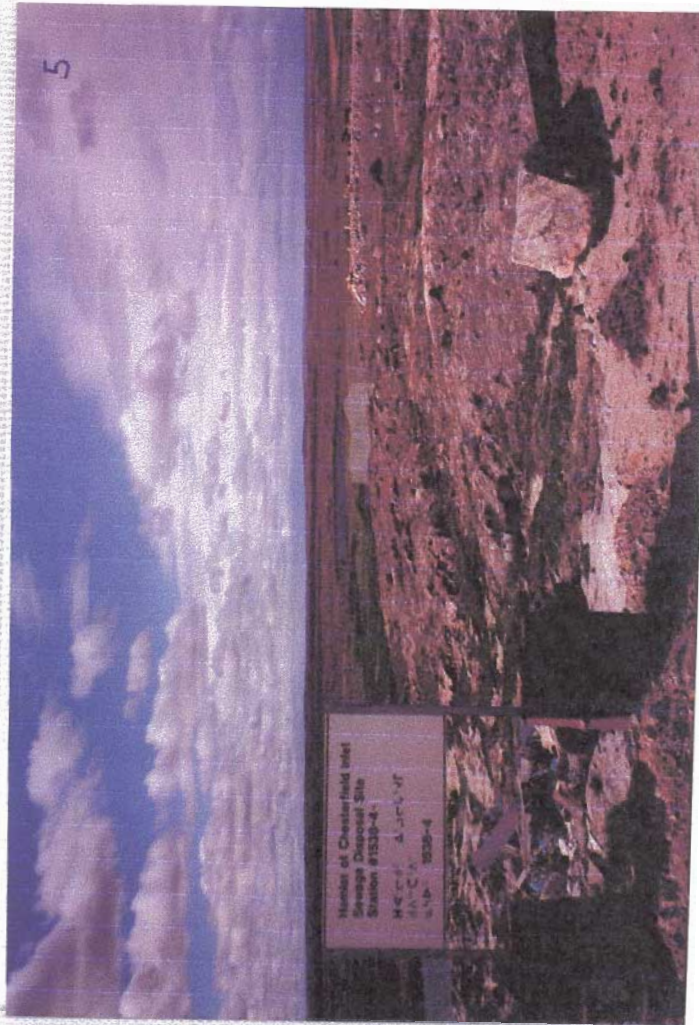
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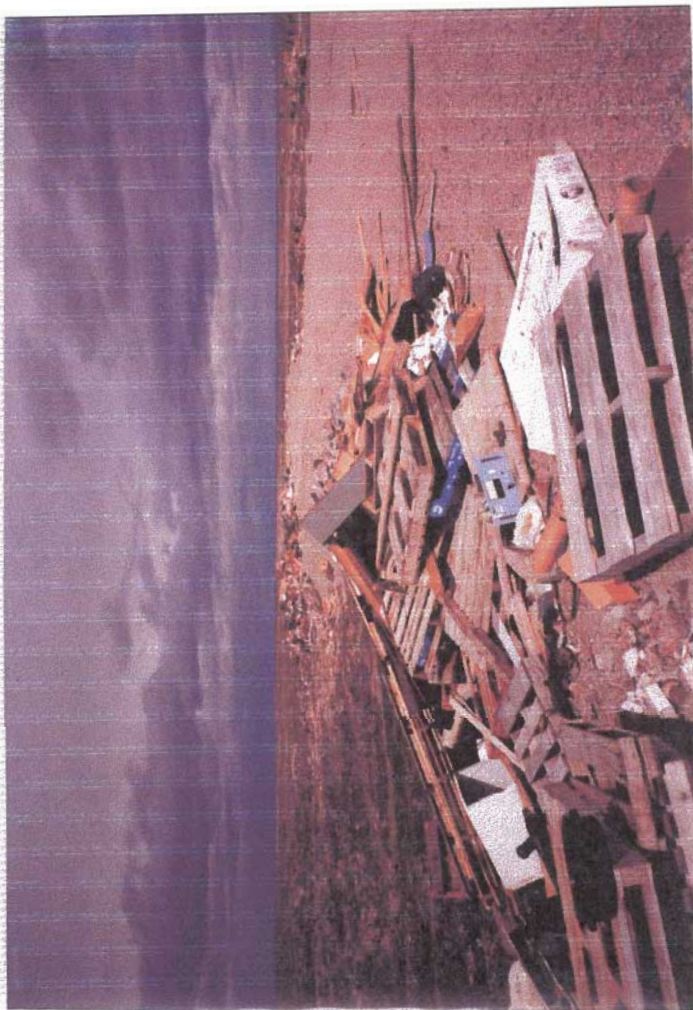


Chesterfield Inlet  
6 August '97









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