



Aboriginal Affairs and
Northern Development Canada

Affaires autochtones et
Développement du Nord Canada

Aboriginal Affairs and Northern Development Canada Intervention to the Municipal Corporation of the Fort Smith (MV2011L3-0001)

Presented to: Mackenzie Valley Land and Water Board
Public Hearing: July 20-21, 2011



Presentation Summary

Introduction

Technical Issues and Recommendations

1. Annual Reporting (3)
2. Sewage Disposal Facilities (2)
3. Snow Disposal Locations (2)
4. Management Plans (4)
5. Wastewater Management (1)
6. Solid Waste Disposal Facility (3)

Concluding Remarks



Annual Reporting

- **Issue:** Annual report details

Recommendation #1: Annual Report to include the following:

Aboriginal Affairs and Northern Development Canada recommends that the following also be a requirement of the Town's Annual Report, under Part B:

- *Results of any inspections of all dams, berms, dykes and control structures;*
- *Updates or revisions to Snow Disposal locations;*
- *Updates or revisions to the Operations and Maintenance Plan;*
- *Sludge Managements details and sampling results,*
- *Comparisons of the Surveillance Network Program data to the water licence regulated limits and sampling and analysis requirements.*



Annual Reporting

- **Issue:**
Landfarm leachates sampling results

Recommendation #2: Landfarm Results in Annual Report

Aboriginal Affairs and Northern Development Canada recommends all sampling results of leachate from the Hydrocarbon Landfarm Treatment Facility be reported within the Water Licence Annual Report.



Annual Reporting



- **Issue:** Groundwater Sampling Results

Recommendation #3: Groundwater results in Annual Report

Aboriginal Affairs and Northern Development Canada recommends that PART B, Section 1 I) be updated to include “The results of sampling and testing of the Groundwater Monitoring Wells at the landfill, as modified and approved by the Board on September 27th, 2006; or as per the future sampling regime to be approved by the Board.”



Sewage Disposal Facilities

- **Issue:** Currently no sludge management plan



Recommendation #4: Sludge Removal and Management

Aboriginal Affairs and Northern Development Canada recommends that the Operations and Maintenance plan include a sub-section on Sludge Removal and Management. This could be included within the Sewage Disposal Facility Section.

NWT Region

Canada 

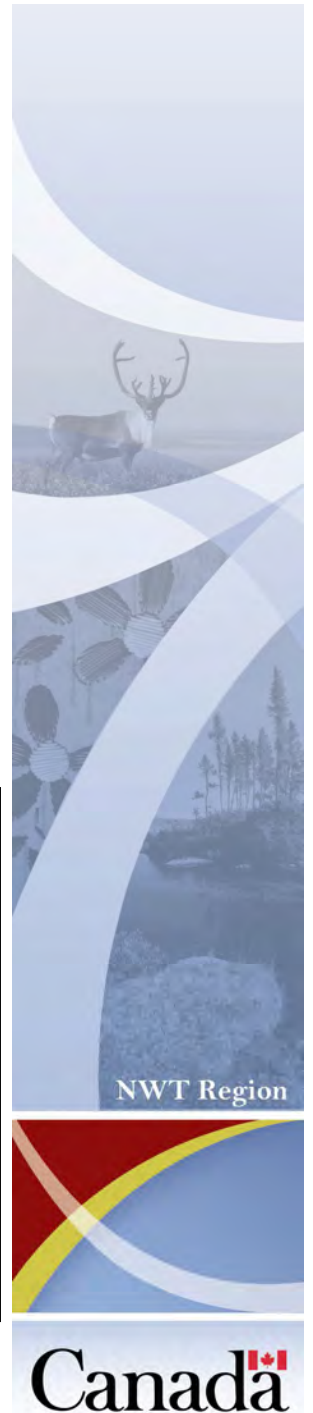
Sewage Disposal Facilities

- **Issue:** Disposal of treated sludge

Recommendation #5:

Proper sludge criteria when disposal in public places

Aboriginal Affairs and Northern Development Canada recommends that all sewage lagoon treated sludge used for municipal purposes meet CCME Canadian Soil Quality Guidelines for the Protection of Environmental and Human Health (Residential/Parkland).

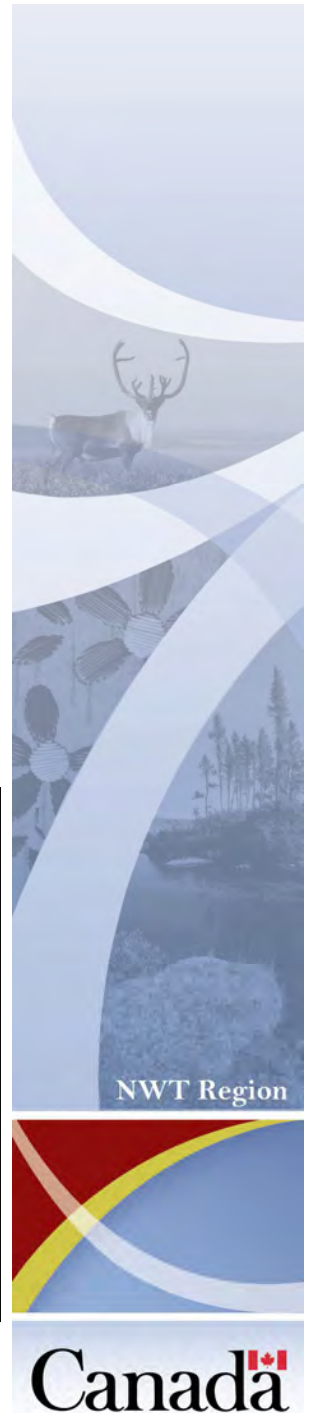


Snow Disposal Locations

- **Issue:** Not identified in current water licence

Recommendation #6: Snow disposal location to be added

Aboriginal Affairs and Northern Development Canada recommends that a condition applying to Waste Disposal be added under Part D of the Water Licence, stating that provided Snow Disposal Locations and associated coordinates be reviewed annually; and that any changes in these locations shall be identified in the Annual Report.



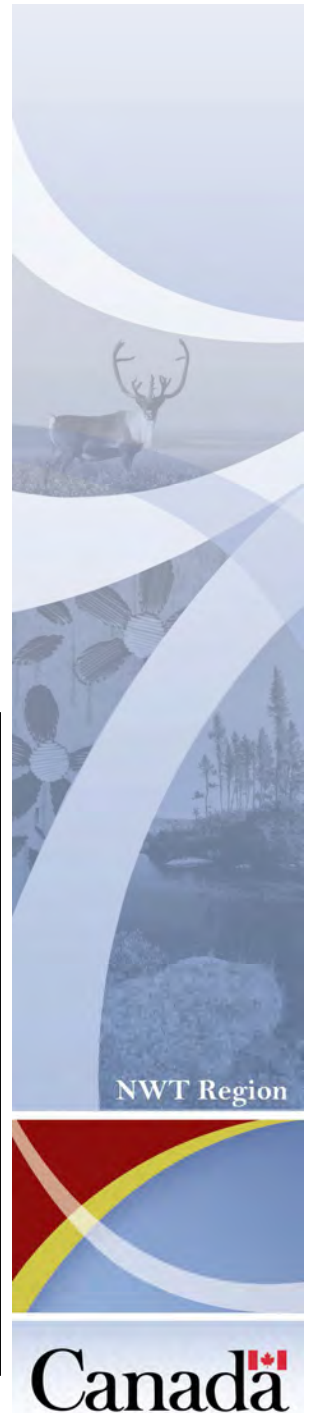
Snow Disposal Locations

- **Issue:** Potential contaminants in snow

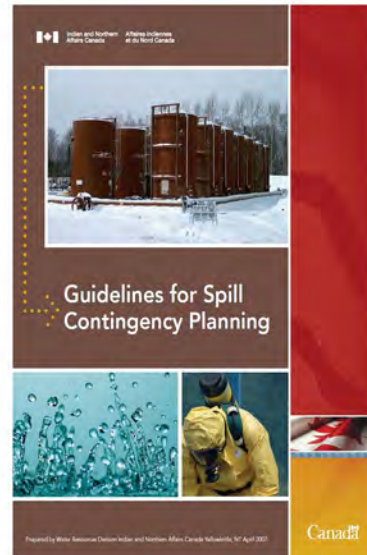
Recommendation #7:

Best practice in snow disposal sites location

Aboriginal Affairs and Northern Development Canada recommends that future snow disposal locations reflect Best Practices for Snow Disposal (2006 City of Yellowknife Disposal Siting Study, Dillon Consulting Limited), namely the avoidance of locations within or near by the Town's Municipal Landfill, or within 200 meters of any water body.



Management Plans



Recommendation #8: Spill Contingency Plan

*Aboriginal Affairs and Northern Development
Canada recommends that Condition 1, Part I should
refer to AANDC's "Guidelines for Spill Contingency
Planning" April 2007.*



Management Plans

- **Issue:** Keeping O&M Plan current

Recommendation #9: Operation and Maintenance Plan

Aboriginal Affairs and Northern Development Canada recommends that Part H, Section 3 reads as follows: “The licensee shall annually review the updated Operations and Maintenance Plan and shall modify the plan to reflect changes in operations and technology and the results of research and other studies. All proposed updates or revisions to the plan shall be submitted to the Board for approval and included as an update in the Annual Report.”



Management Plans

- **Issue:** Structure and contents of O&M Plan

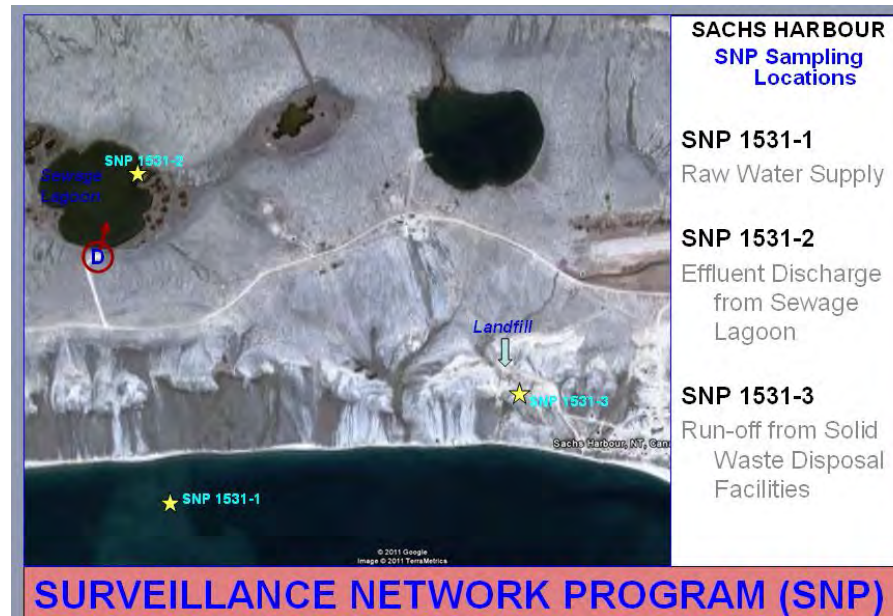
Recommendation #10: Operation and Maintenance Plan

Aboriginal Affairs and Northern Development Canada recommends the Operations and Maintenance plan for Sewage and Solid Waste Disposal Facilities to be completed according to the Government of Northwest Territories, Municipal and Community Affairs 1996 “Guidelines for the Preparation of an Operation and Maintenance Manual for Sewage and Solid Waste Disposal Facilities in the Northwest Territories.”



Management Plans

- **Issue:**
SNP Map is not present in current water licence



Recommendation #10: O& M Plan – SNP Stations Map

Aboriginal Affairs and Northern Development Canada recommends that Part H: Conditions Applying to Operation and Maintenance be updated to include a map depicting all existing (and/or planned) Surveillance Network Program including the latitude and longitude of each location, as well as a copy of the Water Licence.

NWT Region

Canada

Wastewater Management

- **Issue:** Sampling requirements

Recommendation #11: CBOD Analysis

Aboriginal Affairs and Northern Development Canada Recommends that CBOD be added to the list of parameters sampled at SNP 567-2 in Part B, Section 1 of the SNP section of the current water licence, for a minimum period of 3 years. After the 3 year period, the Town should provide a trend analysis to the Board for review and approval, and sampling requirements should be revisited.



Solid Waste Disposal Facility

- **Issue:** Hazardous Waste Management Plan is not present in the current licence

Recommendation #14: Hazardous Waste Management

Aboriginal Affairs and Northern Development Canada recommends that Part H: Conditions Applying to Operation and Maintenance be updated to include an Hazardous Waste Management Plan. This Plan should be completed according to GNWT ENR 2009 – Developing a Community Hazardous Waste Management Plan.



Solid Waste Disposal Facility

- **Issue:** Landfarm operating procedures



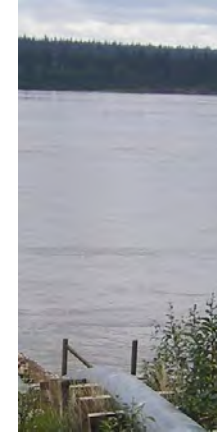
Recommendation #15: Operation and Maintenance Plan

Aboriginal Affairs and Northern Development Canada recommends that the Town update its Operation and Maintenance Manual to include operations from the Hydrocarbon Landfarm Treatment Facility. The Plan should include how leachate will be tested and analyzed, how results will be reported, and how leachate will be discharged or stored.



Effluent Quality Criteria

- **Issue:** Golder Associates' Report "Development of Effluent Quality Criteria for the Town of Fort Smith's Municipal Discharge"



Aboriginal Affairs and Northern Development Canada does not support the use of an acute mixing zone in the Slave River. AANDC does not believe that this is protective of the environment and acknowledges that this would purposely contravene other legislation such as the Fisheries Act. AANDC is willing to work with the Town of Fort Smith, Mackenzie Valley Land and Water Board and all interested parties to further discuss and address this issue.

AANDC's is still critically reviewing the Golder Report of July 5, 2011 and wishes to provide written comments upon completion of this review.



Concluding Remarks

- AANDC recommends that the above described recommendations be included in the Terms and Conditions of the Water Licence





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QUESTIONS?

Aboriginal Affairs and
Northern Development Canada

Water Resources Division

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Rhonda Miller - MVLWB

From: Lynn Boettger - MVLWB [lboettger@mvlwb.com]
Sent: July-15-11 2:23 PM
To: permits@mvlwb.com
Subject: FW: AANDC Public Hearing Presentation MV2011L3-0001
Attachments: YELLOWKN-#471213-v1-
AANDC_PUBLIC_HEARING_PRES_-_TOWN_OF_FORT_SMITH_WL_RENEWAL.pdf

From: Jeanne Arsenault [mailto:Jeanne.Arsenault@inac-ainc.gc.ca]
Sent: Friday, July 15, 2011 2:08 PM
To: lboettger@mvlwb.com
Cc: Marie Adams
Subject: AANDC Public Hearing Presentation MV2011L3-0001

Good afternoon;

Please find attached AANDC Public Hearing Presentation for the water licence renewal for the Town of Fort Smith MV2011L3-0001.

If you have any questions, do not hesitate to contact me.

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