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January 9, 2007

Northwest Territories Water Board
P.O. Box 1326
Yellowknife, NT X1A 2N9

Attn: Vicki Losier, Executive Assistant

RE: Municipal Water Licence (N7L3-1619)

| | |
|---------|------|
| COPY | |
| BOARD | 5 |
| G. W. | — |
| E. A. | 1 |
| W. RES. | — |
| NMDO | — |
| FILE | 1619 |

SM/PLP

Dear Ms. Vicki Losier,

Please find the enclosed Inspection Report for your review and/or records.

An electronic copy (un-editable Adobe pdf.) has also been provided by e-mail.

If you have any questions or concerns regarding the enclosed, and/or if additional information is required please contact me at 867-777-3662.

Sincerely,

Jan Davies
Water Resource Officer

Cc: Conrad Baetz, District Manager, North Mackenzie District, Inuvik, NT
Inuvik Sub-District

Enclosure: Water Licence Inspection Report (3 pages)
Municipal Solid Wastes Suitable for Open Burning Document





WATER LICENCE INSPECTION REPORT

| | | | |
|------------------|-----------------------|---------------------|------------------------------------------------------------------------------------|
| DATE: | September 25-26, 2007 | COMPANY REP: | Gilbert Ruben – Truckfill Operator Aaron Ruben – Water Treatment Plant Operator |
| LICENCEE: | Hamlet of Paulatuk | LICENCE #: | N7L3-1619 |

WATER SUPPLY

| | | | |
|-----------------|--------------------|----------------|------------------------|
| Source: | New Water Lake | Quantity Used: | <11,000 m ³ |
| Owner/Operator: | Hamlet of Paulatuk | | |

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

| | | | | | | | |
|-------------------|---|--------------------|-----|-------------------|---|---------------|---|
| Intake Facilities | A | Storage Structures | N/A | Treatment Systems | A | Chem. Storage | A |
| Flow Meas. Device | A | Conveyance Lines | A | Pumping Stations | A | | |

Comments:

Concerns:

- During inspection it was noticed that respirator cartridges were stored in the same cabinet as the chemicals. This could compromise the effectiveness of the respirator cartridges so they should be stored separately.

WASTE DISPOSAL

| | | |
|-------------|-----------------------------------------------------------|--------------------|
| Sewage | Sewage Treatment System (primary, secondary, or tertiary) | primary |
| | Natural Water Body | ✓ |
| | Continuous Discharge (land or water) | ✓ |
| | Seasonal Disch. | N/A |
| | Wetlands Treatment | ✓ |
| | Trench | N/A |
| Solid Waste | Owner/Operator: | Hamlet of Paulatuk |
| | Landfill | ✓ |
| | Burn & Landfill | ✓ |
| | Other | N/A |

Indicate: **A - Acceptable** **U - Unacceptable** **N/A - Not Applicable** **N/I - Not Inspected**

| | | | | | | | |
|----------------------|----------------|--------------|-------------------------|-------------------|-----------------|-----------|----------------|
| Discharge Quality | U ⁵ | Construction | N/A | Disch. Meas. Dev. | A | Freeboard | N/A |
| Decant Structures | N/A | O&M Plan | A ⁶ | Dams, Dykes | N/A | Seepages | N/A |
| Dyke Inspections | N/A | A&R Plan | N/A | Erosion | U ² | Spills | U ³ |
| Periods of Discharge | Continuous | | Effluent Discharge Rate | | Natural Outflow | | |

Comments:

Concerns:

1. Burning of non-segregated Municipal Solid Waste (MSW) is occurring. Burning of non-segregated MSW remains an unacceptable option for the management of MSW. Wastes that are conditionally suitable for open burning are paper products, paperboard packaging and untreated wood wastes according to the document from the GNWT Department of Environment and Natural Resources titled 'Municipal Solid Wastes Suitable for Open Burning' (Please see enclosed document and Figure 1).
2. Sewage is bypassing the front of the sewage discharge chute and causing erosion all around the chute. The chute needs to be upgraded to prevent sewage from bypassing the front of the chute and to withstand erosion (Figure 2).
3. At the time of inspection someone had recently overturned a drum and dumped the contents at the Solid Waste Disposal Facility(SWDF) in amongst the drum storage area. There was a presence of hydrocarbon odour and it was clear the liquid had run down along the sandy soil area. This kind of situation should be reported to the Spill Line and the spill area should be cleaned up and properly disposed of. Spills of oil and other materials were evident among the drum storage area (Figure 3).
4. Currently no waste oil/hazardous wastes disposal area. Consequently this material is located throughout the landfill. There is a clear indication that many containers are leaking.
5. Discharge quality is unknown. Hamlet has not been sampling on a regular basis as per Surveillance Network Program requirements.
6. At the time of inspection contaminated soil was at the SWDF. The presence of contaminated soil occurred as a modification to the SWDF and the Operation and Maintenance Plan without notification of the Northwest Territories Water Board. The presence of contaminated soil at the SWDF without proper containment is unacceptable and could lead to further contamination. The Hamlet needs to comply with the Water Licence Part E: Conditions Applying to Modifications. Contaminated soil needs proper containment as per Water Licence Part G: Conditions Applying to Construction (Figure 4).
7. Waste is not always properly segregated. Signs were installed at one time but have since been vandalized. Signage is still needed to further increase public guidance and waste segregation. Signs should be posted for but not limited to the following areas: domestic garbage, waste tires, waste appliances(washers/dryers, etc.), wood waste, bulky metal wastes, waste vehicles and skidoos, empty drums, honey bag pit, and hazardous waste(waste oil, batteries etc).
8. A dead animal pit needs to be available for waste animal parts.

- 9. Fence around current SWDF cell needs to be repaired to control windblown debris.
- 10. Old SWDF cells need to be contoured to prevent water ponding on the surface.

Note:

- As per the NWT Water Boards September 14, 2005 letter the O&M Plan dated August 2004 by Dillon Consulting Limited was approved

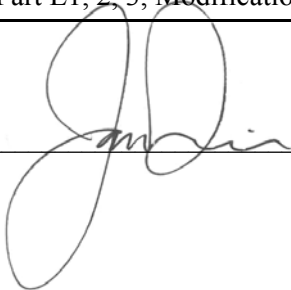
FUEL STORAGE

| | | | | | |
|--------------------|--------------------|---------------------------------|--------------------|---------------------|------|
| Owner: | Hamlet of Paulatuk | Operator: | Hamlet of Paulatuk | Condition of tanks: | Good |
| Berms & Liners | Good | Water within Berm: | No | Evidence of Leaks: | None |
| Drainage Pipes | N/A | Pump Station and Catchment Berm | N/A | | |
| Pipeline Condition | Good | Not Applicable: | N/A | | |

SURVEILLANCE NETWORK PROGRAM

| | | | | | |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------------------|--|--|
| Samples Collected | Hamlet | No records of any samples taken as per SNP requirements. | | | |
| | DIAND | None | | | |
| Signs Posted: SNP | None present, Licensee reminded to post | Warning | None present at facilities | | |
| Record & Reporting | None available | | | | |
| Geotechnical Inspection | N/A | | | | |
| Non-Compliance of Act or Licence: | Violations of Water Licence N7L3-1619 1. Part B1, 2006 Annual Report not submitted. 2. Part B2, Licensee shall comply with the "Surveillance Network Program". 3. Part B7, Post signs to identify the stations of the "Surveillance Network Program". 4. Part B8, Post signs to inform the public of Water Supply and Waste Disposal Facilities. 5. Part D4, Honey bag pit not identified at the Solid Waste Disposal Facility (SWDF). 6. Part E1, 2, 3, Modification of SWDF to include Hydrocarbon Contaminated Soil Area. | | | | |

Inspector's Signature: _____





WATER LICENCE INSPECTION REPORT Pg. 3 (Continued)

| | | | |
|-------|-----------------------|------------|-----------|
| Date: | September 25-26, 2007 | Licence #: | N7L3-1619 |
|-------|-----------------------|------------|-----------|

Inspection Images:

Figure 1

Burning of un-segregated domestic solid waste.



Figure 2

Erosion present at the end of the sewage unloading chute.



Figure 3

Evidence of drum's contents spilled at drum storage area.



Figure 4

Contaminated soil pile area at Solid Waste Disposal Facility.



Municipal Solid Wastes Suitable for Open Burning

Municipal solid wastes (MSW) that are conditionally suitable for open burning are paper products, paperboard packaging and untreated wood wastes only.

Conditions for this burning are:

- * The principle of source reduction should be utilized to reduce, reuse and recycle materials otherwise bound for landfill.
- * The appropriate materials are segregated and burned in a controlled manner and site which is separate from the working landfill so that the fire cannot spread. Standard burning conditions shall apply to burning such as on days where winds are light, blowing away from the community, in manageable volumes so that fires do not get out of control, having applicable permits and managed by an authorized, qualified person from the community. These are conditions also recommended in the Municipal and Community Affairs Solid Waste Modified Landfill Guidelines.
- * Building demolition wastes should not be burned unless they have been sorted to remove non-wood wastes such as roofing materials, electrical wire, plastics, asbestos and other non-wood wastes.
- * Waste wood treated with preservatives such as creosote, pentachlorophenol or heavy metal solutions shall not be burned. Examples of treated wood materials include railroad ties, telephone/hydro poles, pilings, cribbing and foundations.
- * Following a review of the specific landfill location, additional local conditions or controls may be applied.

Where geographic conditions do not allow for the proper operation of a modified landfill, such as because of limited availability of cover materials and unsuitable ground conditions, communities may have to assess other alternatives of MSW management ie: balefill, incineration. The open burning of non-segregated MSW remains an unacceptable option for the management of MSW. Continuation of this practise should not be allowed unless a site-specific assessment fails to identify a feasible and practical alternative. At that point some form of segregation will be required.