



Indian and Northern
Affairs Canada

Affaires indiennes
et du Nord Canada



CANADA REMEMBERS
LE CANADA SE SOUVIENT

DIAND Nunavut District
Box 100
Iqaluit, NT
XOA OHO

Your file Votre référence

Our file Notre référence

November 12, 1996

B9545-5-N6L3-1191

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

Dear Mr. Zettler;

Re: Standards for Solid Waste: Operations and Maintenance

Reference: Operations and Maintenance Plan prepared by Leo Caoutte dated November 1, 1996.

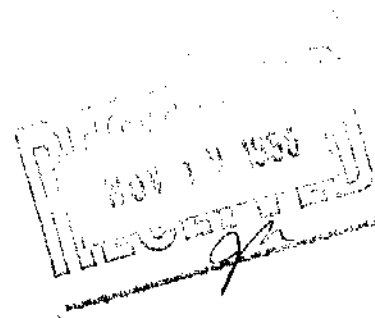
1. We are in receipt of the above mentioned plan.
2. I have taken the liberty of making a copy and forwarding it to the Nunavut Water Board.
3. In accordance with Part G, Item 1 of the Hamlet's water licence, this plan will have to be approved by the Nunavut Water Board. They may desire changes or clarification to be made.
4. This office will review and prepare comments to offer to the Board within their review process.
5. Thank you for your prompt action in the preparation of this document.

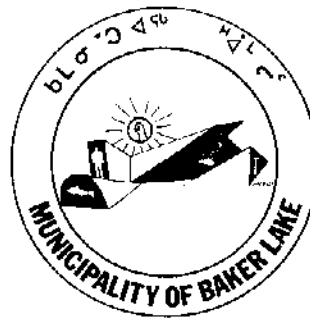
Sincerely,

Paul Smith
Water Resources Officer
Nunavut District

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

Canada





BAKER LAKE, N.W.T.
X0C 0A0

RECEIVED

NOV 08 1996

7 **D.I.A.N.D.**
IGALUIT, NT

Standards for Solid Waste, Operations and Maintenance

Prepared by: Leo Caouette, CWMS Trainer, November 1, 1996

For the Hamlet of Baker Lake

1) Pickup of Solid Waste:

- a) Residential, shall receive garbage pickup twice a week. (Monday & Thursday)
All residential units who choose not to be on garbage pickup will be subject to landfill site tipping fees.
- b) Commercial and Institutions, shall receive garbage pickup a minimum of two times per week to a maximum of five times per week. All commercial and institutions will apply for the level of service they require. All commercial and institutions who choose not to be on garbage pickup will be subject to landfill site tipping fees.
- c) All residential and commercial shall be placed on scheduled service. Drivers will be expected to keep to their schedule as much as possible.

2) Description of Service:

- a) The Hamlet shall collect municipal type solid waste, within the service area, from residential, commercial and institutions on a scheduled basis. The hours of operation shall be 8.30 AM to 5.00PM, Monday to Friday excluding holidays and weekends.
- b) The Hamlet shall operate and maintain a solid waste facility, known as Hamlet land fill site or dump, for municipal type waste, household hazardous waste and bulky waste. All solid waste **with the exception** of raw sewage or commercial, government and industrial generated hazardous waste, shall be disposed of at the Hamlet land fill.
- c) The Hamlet shall conduct a mass participation annual spring clean-up of litter and unsightly bulky waste.
- d) The Hamlet shall conduct a household hazardous waste round up once a year.

- e) The Hamlet shall not collect, transport, handle, store, nor dispose of commercial, government or industrial generated hazardous waste.
- f) All hazardous waste is the sole responsibility of the generator and must be disposed of in accordance with the applicable legislation.

3) Responsibilities of the waste generator.

- a) Every residential, commercial or institutional generator of municipal type waste shall maintain, in good condition, sufficient covered or enclosed waste containers. A 45 gallon drum is adequate.
- b) All waste placed in a waste container must first be placed in a garbage bag.
- c) All waste containers shall be kept within the property boundaries of the lot or parcel of land on which the serviced premises are located and be positioned adjacent to the public roadway.
- d) Every waste generator shall maintain, at his own expense, unimpeded access to their waste containers, including the removal of ice, snow, mud, vehicles, pets and yard materials.
- e) Any person having garbage upon their premise or lands shall dispose of it in the described manner.
- f) No person shall dispose of any explosive, inflammable, dangerous or hazardous waste in any waste container or any other place without the express authority of the manager.
- g) Any construction or building material being used or stored on private property must be stored on the said property, in a neat and orderly fashion or it may be defined as construction debris.
- h) Any construction debris shall be segregated, hauled in a suitable container and disposed of at the hamlet landfill site in its suitable location. The Hamlet will promote recycling of construction materials and shall keep materials segregated from regular domestic waste.
- i) Bulky wastes must be segregated removed and disposed of at the Hamlet Landfill.
- j) All premises which utilize a garbage room or building shall ensure that all waste is stored in secured and segregated waste containers.
- k) The Hamlet may dispose of construction debris or bulky wastes if it has not been properly disposed of within twenty four (24) hours of notification to do so, and the premise owner charged "at cost" for work performed by or on behalf of the Hamlet.
- l) Conditions of the operations and maintenance of the Hamlet landfill site and directions of the waste facility operator are to be strictly observed by all.

4) Operation and Management of Landfill Site

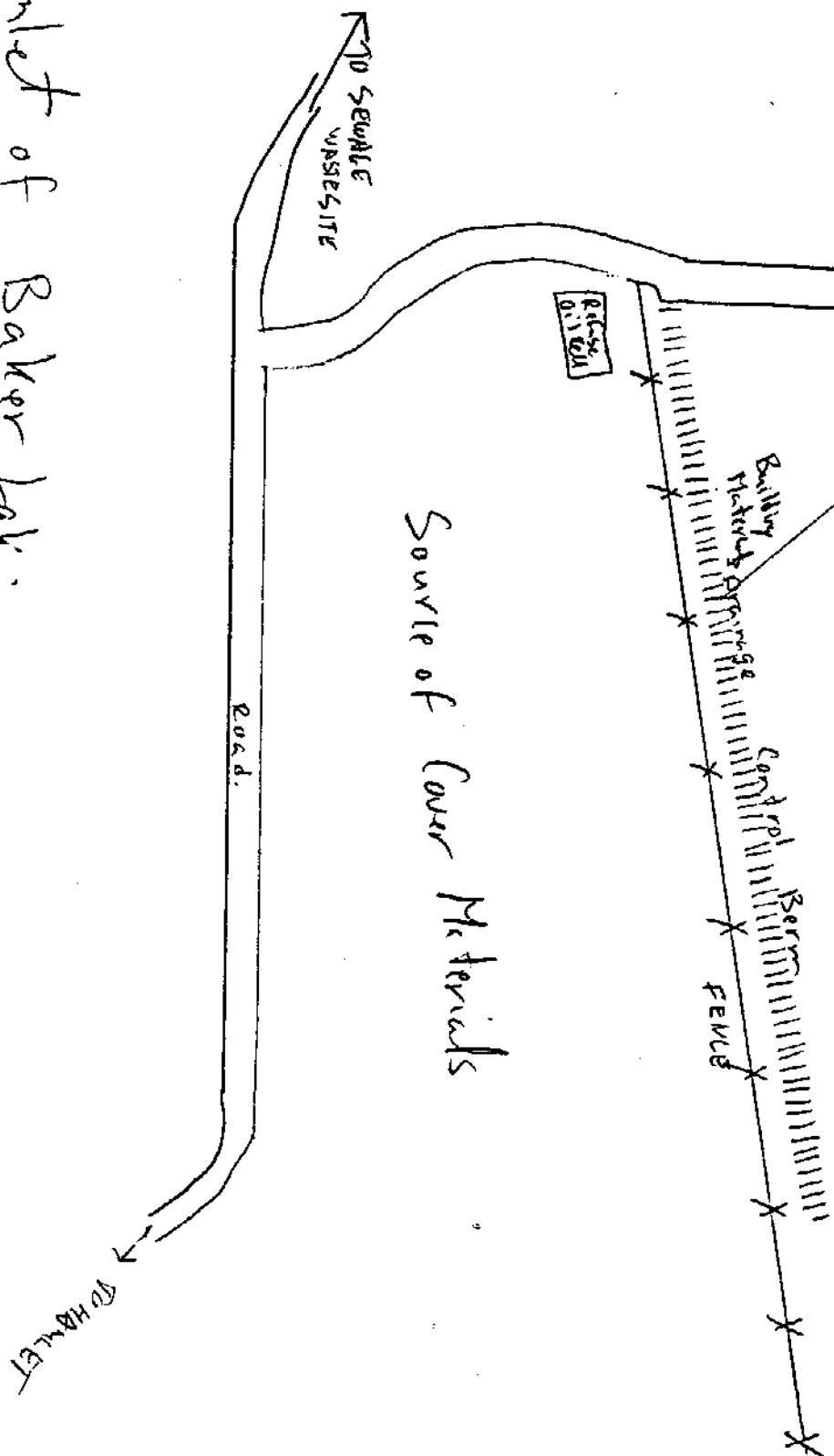
A) All waste are separated into various designated areas. The Hamlet works staff will ensure that bilingual signs are posted.

1. Bulky materials, (truck bodies, tanks, etc.)
2. Tires,

3. Appliances,
 4. Reusable wood,
 5. Metals,
 6. Barrels, (all to crushed with barrel crusher)
 7. Household Hazardous Waste Bin,
 8. Domestic waste,
- B) Bulky Materials, the Hamlet shall reduce the volume by cutting up frames and stacking to reduce the area required, this task will be performed during summer when sufficient time is available. The Hamlet Works Staff shall keep this area neat and organized.
- C) Tires, shall be stored in the designated area at the land fill site.
- D) Appliances, shall be stored in a designated area at the land fill site to encourage parting out. All refrigerators and freezers shall have the doors removed.
- E) Reusable wood, the Hamlet shall ensure construction waste is dumped in the appropriate location. Wood should be burnt twice monthly only, to ensure that members of the public have sufficient time to pickup reusable materials.
- F) Metals, metals that may be reused shall be stored in the designated area, metals not widely reusable shall be stored with bulky waste.
- G) Barrels, the Hamlet staff shall reduce the volume of barrels by crushing, this task shall be performed during summer months. The Hamlet works staff shall use the barrel crusher in a safe and correct manner. All crushed barrels shall be stored in the bulky waste area. Some day it may be economically viable to send metals south for recycling.
- H) Waste Oil, waste oil and fuel shall be given to local contractor who has a waste oil furnace, if the local contractor does not want it, then it shall be dumped in the oil cell.
- I) Household Hazardous Waste, shall be collected once a year from homes and stored in a metal storage locker. The storage locker is to made out of an old tank.
- J) Domestic Waste, the garbage works staff shall compact the waste in the trucks as best they can. They shall dispose of waste at the edge of the drop off, when there is sufficient waste accumulated, the heavy equipment operator shall compact the domestic waste with a dozer. When the packed waste is in a layer about 2.5 meters thick it shall be covered with 25 cm of cover material. The appropriate grade shall be maintained at all times to ensure that a sufficient drop off is available. The angle of drop off shall be maintained to ensure minimal snow drifting. The volume of domestic waste shall determine how many times waste shall be compacted and covered during the summer months Every fall before freeze up the works foreman shall ensure all accumulated waste is covered in the appropriate manner.
- 5) **Site Volume:** With proper site management, the domestic waste dumping site could operate for a period of at least 20 years. By continuing to raise the grade of the site this location would be well suited for future years. The bulky waste area is near its capacity and Hamlet council will need to identify a new site or expand the current site.

- 6) **Site Location:** The waste disposal site is located 1400 meters north east of the center of the Hamlet of Baker Lake.
- 7) **Bodies of Water:** Ookutalik lake, located 110 meters north of the waste disposal site, flows into Airplane Lake, located 1300 meters east of the waste disposal site. Airplane lake flows into Baker Lake, located 2200 meters from the waste disposal site. This water shed has a number of wetlands between the bodies of water, the Nunavut water board along with M.A.C.A. has done a study this past summer (1996). The results of the data are not available at the time this report was completed.
- 8) **Burning:** The garbage works staff shall burn to reduce the volume of domestic waste. The burning will be done in a controlled and safe manner. If for any reason the burning becomes unsafe or out of control the fire department shall be called out.
- 9) **Nuisance Control:** The Solid Waste Site has a fence running west to east on the south side of the dumping area. This fence does collect wind blown litter and shall be cleaned monthly by the garbage works staff. In the future Hamlet Council may consider installing fences around the entire facility with a controlled gate.
- 10) **Hazardous Waste:** The Hamlet shall only collect household hazardous waste. This waste shall be stored in old metal tank or locker. The Hamlet has not identified the means of disposing of this waste. At this time it shall continue storing it in a safe way. The Hamlet shall not allow any dumping of hazardous waste by anyone. Hazardous waste generated by commercial or government shall be disposed of by the generator and shall not be accepted by the Hamlet.
- 11) **Record Keeping:** The garbage works staff shall record the number of truck loads it hauls daily to the solid waste site. This number shall be recorded on their weekly work sheet.
- 12) **Equipment for Operation and Maintenance:** The Hamlet uses two (2) one ton trucks with compactors to collect domestic garbage. The Hamlet uses one D-6 Dozer to compact and spread fill, dump truck to haul fill and loader to load fill. The equipment is not on site and is only used as required. The Hamlet has a barrel crusher powered by a diesel engine it is only brought on site for summer operation.
- 13) **Enforcement:** At this time enforcement is subject to By-Law #96

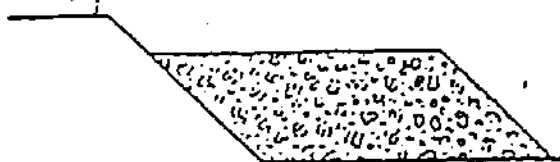
Handout of Baker Lab.
Solid waste site



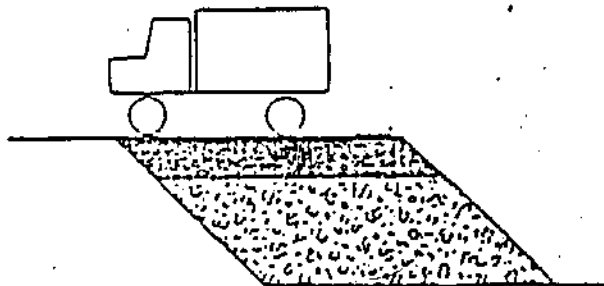
2



A. COMPLETION OF ANNUAL DUMP CYCLE.



B. SPREAD AND COMPACT REFUSE.
PREPARE TOP SURFACE FOR
FINAL COVER APPLICATION.



C. APPLY FINAL COVER ON COMPACTED REFUSE.
COMPACT AND GRADE SURFACE TO BECOME
FUTURE DUMPING ROAD.
RELOCATE BARRICADE TO NEW DUMP EDGE.

ANNUAL TRENCH SEQUENCE

DRAWING 2

