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# DENALI BOROUGH LANDFILL

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**PART 7 - OPERATIONS PLAN 2012 TO 2017  
MILEPOST 282.5 GEORGE PARKS HIGHWAY  
ANDERSON, ALASKA**

**DENALI BOROUGH  
PO BOX 480  
HEALY, ALASKA 99743**

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**Volume 3  
August 23, 2012**

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**ACRONYMS AND ABBREVIATIONS**

A/C	Air Conditioning
ACM	Asbestos Containing Materials
ADEC	Alaska Department of Environmental Conservation
BTEX	Benzene, Toluene, Ethyl benzene, and Xylenes
C&D	Construction & Demolition
CFR	Code of Federal Regulations
CSW	Commercial Solid Waste
CTS	Cantwell Transfer Station
DRO	Diesel Range Organics
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HHW	Household Hazardous Waste
Lbs	Pounds
Mg/Kg	Milligram Per Kilogram
MSW	Municipal Solid Waste
MOLO	Manager of Landfill Operations
PPE	Personal Protective Equipment
PPM	Parts Per Million
RACM	Regulated Asbestos Containing Materials
RRO	Residual Range Organics
RSW	Residential Solid Waste
RV	Recreational Vehicle
TDS	Total Dissolved Solids
USGS	United States Geological Survey

**DENALI BOROUGH LANDFILL  
OPERATIONS PLAN 2007 TO 2012  
MILEPOST 282.5 GEORGE PARKS HIGHWAY  
ANDERSON, ALASKA**

## 1.0 INTRODUCTION

This document presents the Denali Borough Landfill (Landfill) Operations Plan to be used by personnel performing Solid Waste activities at the Landfill. The Landfill is considered a Class II Municipal Solid Waste Landfill, which means it is unlined and can only accept an annual average of twenty tons of waste per day. This Landfill Operations Plan is a work in progress and may be modified in the future to address different situations that come to the attention of the Borough.

The Denali Borough, as the owner of the Landfill, will coordinate its procedures in conjunction with Alaska Department of Environmental Conservation (ADEC) and the Environmental Protection Agency (EPA). For example, the Borough will be involved with deciding how to dispose of various unacceptable wastes, management of the Construction and Demolition and Municipal Solid Waste Pits, Collecting and Disposal of Special Wastes, Facility Maintenance, Methane Gas and Groundwater Monitoring, Landfill Records and Logs, Site Plans, Personnel Training Requirements, and Site Closure Plans.

This Operations Plan is required as an integral part of the Borough's Solid Waste Disposal Permit. It describes and proscribes waste disposal procedures to ensure compliance with State and Federal laws that govern solid waste disposal and landfill operations. As such, departure from this plan requires Borough and ADEC and, possibly, EPA authorization.

The Landfill is situated within an approximately 80-acre tract at Milepost 282.5 George Parks Highway, Anderson, Alaska. The Landfill property is owned by the Denali Borough as indicated on the State of Alaska Patent No. 16712 provided in Appendix D. According to the US Geological Survey (USGS) map, the Landfill is located in the southwest  $\frac{1}{4}$  of Section 26 and the southeast  $\frac{1}{4}$  of Section 27, Township 7 South, Range 8 West, Fairbanks Meridian, Alaska. The Landfill has coordinates of 61.1751 degrees north latitude, and 149.8879 degrees west longitude. A Vicinity Map illustrating the location of the Landfill and nearby communities is presented in Appendix D.

## 2.0 WASTE STREAM

The Landfill serves the Denali Borough and the City of Nenana. The Denali Borough includes Anderson, Clear Air Force Station, Healy, McKinley Village, Cantwell, and points in between. The Landfill also serves the Denali Park tourist industry.

### **Materials that are acceptable at the Denali Borough Landfill include:**

- Municipal Solid Waste (MSW),
- Household hazardous waste (HHW) that has been segregated as discussed in Section 3.2., and
- Special Waste

### **Materials that are acceptable at the Denali Borough Transfer Station in Cantwell include:**

- Residential MSW and household hazardous waste that has been segregated as discussed in Section 3.2.

## 2.1 Waste Management Overview

All MSW and Special waste will be separated at the source prior to being transported to the Landfill for disposal. The exception here is residential MSW waste may contain small amounts of C&D (nothing larger than will fit in a 32 gallon container). Other than small amounts most residential C&D from projects, such as building demolitions, renovations and construction additions, must be separated and not combined with MSW waste. Customers must be aware of what they are hauling, as anyone who brings waste to the Landfill or Transfer Station will be responsible for that waste. Non-separated MSW and Special Waste from commercial operations and/or residential projects will be turned away unless the customer can separate on-site.

An As-Built Survey showing the initial construction and configuration of the Landfill in May 1998, including the Inert Waste Unit and Unit Nos. 1 and 2 (MSW waste), is provided in Appendix B. A Facility Site Layout for the Denali Regional Landfill, also presented in Appendix B, shows the locations of the Processing Yard, Junk Vehicle Processing Area, Operations Yard, Unacceptable Waste Storage Area, Hazardous Waste Storage Container Area, Waste Oil Storage Area, Battery Storage Area, and Equipment Storage and Maintenance Areas. The Facility Site Layout also indicates that the Landfill can be expanded to contain up to two Inert Waste Units and eight MSW Units. Volumetric Surveys from 2001 to 2007 are also provided in Appendix B and show the progressive filling of the first Inert Waste Unit and Units 1 and 2.

2.2 Landfill Hours are as listed. However, open hours may be reduced per lack of volume.

Winter and summer open hours for the Landfill are as follows:

- 1) **Winter (October 16<sup>th</sup> - April 14<sup>th</sup>)**
  - A) Monday: Closed
  - B) Tuesday: 9:00 AM – 4:00 PM
  - C) Wednesday: 9:00AM -4:00 PM

- D) Thursday: Closed
- E) Friday: 9:00 AM – 4:00 PM
- F) Saturday: 9:00 AM – 3:00 PM
- G) Sunday: Closed

2) **Summer (April 15<sup>th</sup> – October 15<sup>th</sup>)**

- A) Monday: 1:00 PM – 4:00 PM
- B) Tuesday: 9:00 AM – 4:00 PM
- C) Wednesday: 9:00 AM – 4:00PM
- D) Thursday: 9:00 AM – 4:00 PM
- E) Friday: 9:00 AM – 4:00 PM
- F) Saturday: 9:00 AM – 3:00 PM
- G) Sunday: Closed

There will be no access to the Landfill during non-open hours unless prearranged through the Denali Borough Landfill Administrator.

### 2.3 Landfill Chain of Command

- 1) Operator to Landfill Office
- 2) Landfill Office to Borough Landfill Administrator
- 3) Borough Landfill Administrator to Proper Agency

## 3.0 WASTE CATEGORIES

### 3.1 Unacceptable Wastes

It is the Borough's intent to exclude Unacceptable Wastes from the Borough Landfill. Wastes are "unacceptable" because of environmental or safety reasons or volume restrictions. Unacceptable waste is as follows:

- Hazardous Waste;
- PCB Contaminated Waste;
- Regulated asbestos containing materials (RACM) as defined in *How to Dispose Of Wastes from Building Demolition, Renovation and Construction* provided in Appendix A;
- Petroleum contaminated soil (was or is now contaminated)
- Radioactive Waste;
- Sewage/Septage/Honey Bucket;
- Liquid Waste; (anything that flows)

- Yard Waste;
- Electronic Waste (such as computers, monitors, ink cartridges, printers, fax machines etc.);
- Medical Waste;
- Ethylene or Propylene Glycol; (will be accepted from residential sources)
- Acids;
- Barrel/Containers of Unknown Waste;
- Chemical Waste;
- Conditionally Exempt Small Generator Waste;
- Corrosive Waste;
- Degreasers;
- Explosives;
- Flammable Liquids;

Tables 5.1 and 5.2, presented at the end of Section 5, provide detailed lists of unacceptable and acceptable wastes, respectively. Table 5.1 in Section 5, "Management of Unacceptable Wastes", describes proper operator response to discovery of unacceptable waste. Table 5.2 describes the general processing of acceptable wastes received at the Landfill.

### **3.2 Household Hazardous Waste (HHW)**

Un-segregated HHW will be disposed with the MSW waste stream at the Landfill disposal unit working face. HHW is currently not regulated in Alaska and is acceptable at the Denali Borough Landfill. However, due to the hazard of this waste, the Denali Borough recommends and encourages residents to separate out HHW from the main waste stream. The Landfill will store the separated HHW as a hazardous waste in a special location for recycling or transport off site for disposal. To promote this, the Landfill will not charge for HHW that has been separated out of the MSW waste stream and still in its original container when it is brought into the Transfer Station or Landfill.

### **3.3 Recyclables & Salvage**

The Landfill will maintain a salvage area to recover HHW, batteries, waste oil and other items as determined, which will allow for their recycling and/or waste to energy or disposal off site.

- Storage - Lead-acid batteries will be stored in acceptable containers, to contain any which may leak acid. Baking soda will be used to neutralize battery acid.
- Storage – HHW will be separated and stored in a protected environment away from other HHW that may react with it.
- Storage – Waste Oil will be stored in a doubled walled tank.

- Disposal - Lead Acid Batteries will be disposed with a battery recycler when a significant number accumulate or annually, which ever is first.
- Disposal - HHW will be recycled to residents or others who want it free of charge. It will be disposed with a recycler when a significant quantity accumulates or annually, which ever is first.
- Disposal – Waste Oil will be used in the boroughs Waste to Energy Program

### 3.4 Special Wastes

Special wastes include those materials that require special inspection or disposal procedures and therefore *possible* additional fees. Special waste items are also required to be separated out of the waste stream. Examples:

- Barrels, drums, and pressurized containers
- Animal carcasses
- Non-Freon white waste, (stoves, microwaves, dishwashers, dryers, etc.)
- Freon *type* white waste (refrigerators, freezers, air condition units, etc.)
- Junk Vehicles & Parts
- C&D Debris
- Tires
- Scrap Metal
- Mattresses & box springs
- Metal Poles (over 4 feet in length), Pipes, Chains, and Cables
- Batteries-Lead-acid type
- Waste Oil, vehicle and cooking
- Electronic Equipment (computers, monitors, printers, copiers, ink cartridges)

Note: Please see, “How do I dispose of.....????,” for further instructions on Special Waste located in Appendix A.

### 4.0 LOGGING AND SCREENING WASTE

Landfill personnel will use the forms provided in Section 15.0 for logging and screening wastes received at the Landfill. The completed forms are kept by the Landfill Manager at the Borough Office with a duplicate copy kept at the Landfill Office. The following table provides the position, contact person, and contact number for the Landfill personnel:

Position	Contact Name	Contact Number
Denali Borough office	Mayor or designee	(907) 683-1330
Landfill Operators	Operators	(907) 582-1330
Landfill Gate Attendant	Gate Attendant	(907) 582-1330

#### 4.1 General Purpose

The Landfill waste screening procedure identifies incoming Unacceptable, Special, and MSW wastes. This allows the borough to:

- Exclude unacceptable wastes from the Landfill;
- Carefully dispose of Special Wastes, by segregating into the processing area for processing prior to disposing or disposing in a special area; and
- Dispose of remaining MSW at the currently-in-use MSW Landfill unit working face.

#### 4.2 Gate Attendant

- a. A gate attendant will be on duty during all posted hours.
- b. The gate will be locked when the landfill is closed or unattended.
- c. There will be no access to the landfill during non-open hours unless prearranged through the Denali Borough Administrator.
- d. The gate attendant duties include:
  - i) Inspecting (preliminary screening) of incoming waste;
  - ii) Determining type of incoming waste;
  - iii) Receipting or logging incoming waste;
  - iv) Collecting disposal fee/s;
  - v) Directing disposal of incoming waste to the appropriate disposal area;
  - vi) Educating individuals bringing in waste for disposal, while at the weigh scale; and
  - vii) Other duties as assigned.

#### 4.3 Logging Waste

- a. Log Unacceptable Wastes
  - i) Unacceptable waste found at the Landfill will be logged by the Landfill Operators using the *Unacceptable Waste Log* form.
  - ii) The driver of any load containing any amount of unacceptable wastes will be directed to return the wastes to the generator (where it was received). "Returned" or refused unacceptable wastes will be logged separately.

- b. Log Segregated HHW using the *Unacceptable Waste Log* form provided in Section 16.0. When HHW is segregated by the operator from the MSW stream because of its large volume or characteristic, it will be treated like unacceptable waste.
- c. Log MSW on the *Incoming Waste Receipt Log* form.
- d. Log Special Waste on the *Incoming Waste Receipt Log* form.
- e. Complete the *Special Waste Form* for the following wastes:
  - i) Junk Vehicles/motors/parts (vehicles must also have a completed *Junk Vehicle Disposal Form*;
  - ii) Freon type appliances (refrigerators, freezers and A/C Units);
  - iii) Tires;
  - iv) Lead-Acid Type Batteries;
  - v) Drums, barrels, containers;
  - vi) Non-Freon type white waste;
  - vii) Mattresses, box-springs;
  - viii) Scrap metal
  - ix) Metal pipes/poles/cable/chain/wire; (over 4' long)
  - x) Animal carcasses;
  - xi) C&D; and
  - xii) Waste Oil and Grease.
- f. Recyclables

Recyclables will not be removed from the waste stream at the Landfill. Recovery of recyclables will be done at the community level or brought to the landfill separated, as with HHW, batteries or waste oil and grease.

#### 4.4 Waste Screening

Random load inspection will be conducted on approximately 10% of all deliveries (1 in 10 vehicles).

Waste screening is conducted by a Landfill Operator as follows:

##### a. Load Screening Procedure

The Landfill operator or gate attendant will advise the customer when a load is to be inspected. The load inspection will be conducted at the working face. Discharged refuse will be spread and examined with the aid of heavy equipment. If the operator must make a better assessment, appropriate personnel protective equipment, discussed in Section 13.2, will be used.

##### b. Log and file Random Load Inspections

The Landfill operator will complete the *Waste Inspection Log* form provided to demonstrate conformance with the minimum 10% inspection rate.

c. Unacceptable Waste Observed

If unacceptable wastes are observed, the driver will be directed to return said wastes to the generator. The hauler is expected to know what he/she is hauling and for whom. If refusing or returning unacceptable waste is not an option, it will be segregated and stored in the Unacceptable Waste Storage Area (Follow Chain of Command).

## 5.0 MANAGEMENT OF UNACCEPTABLE WASTES

### 5.1 Unacceptable Waste Excluded

Unacceptable wastes will not be allowed into the Denali Borough Landfill. The following measures will be taken to protect this policy:

- Preliminary and random load screening;
- Mandatory inspection of 10% of all loads;
- Training of Landfill and Transfer Station operators to spot unacceptable wastes.

### 5.2 Unacceptable Waste Identified

- See Table 5.1, "Unacceptable Wastes", at the end of this section, for a list of unacceptable wastes. Table 5.1 also lists the action to take in the event that unacceptable wastes are discovered at the Landfill working face.
- Hazardous wastes are identified in 40 Code of Federal Regulations (CFR) Part 261. Hazardous wastes are excluded from the Denali Borough Landfill.

### 5.3 Unacceptable Waste Response

Unacceptable wastes will be managed according to the following procedure:

- a. Use Personnel Protection Equipment (PPE)  
Use suitable PPE including head, eyes, face, hands, feet, and respiratory protection as appropriate when dealing with unknown waste or unacceptable waste. See Section 13.2.
- b. Return Unacceptable Wastes to the Source (generator)  
Unacceptable waste is the responsibility of the hauler, who will remove such wastes from the Landfill, in a timely manner.
- c. Evaluate Unidentified Containerized Wastes  
Unidentified containers will not be opened. If the waste is not readily identifiable, it will be treated as unacceptable and returned to the hauler.
- d. Segregate and Isolate  
Unacceptable wastes will be segregated and isolated to the extent possible. Containerized wastes with no visible leakage or immediate potential for rupture will be moved to the Unacceptable Waste Storage Area.
- e. Leaking Waste

Leaking materials will be contained with vermiculite or similar absorbent. Once all visible liquids have been absorbed, the absorbents will be shoveled into a secure 55-gallon drum or other container, properly labeled (with date of receipt and "Hazardous Waste" identifier) and stored in the Unacceptable Waste Storage Area.

- f. Investigation  
Landfill employees, with the help of the hauler, will try to identify the unacceptable waste generator or source. He will use the Landfill (or Transfer Station) *Incoming Waste Log* form, and/or hauler associated with the Unacceptable Wastes, to determine the source.
- g. Documentation (*Unacceptable Waste Log*)  
Receipt of unacceptable waste will be documented on an *Unacceptable Waste Log* form. The completed *Unacceptable Waste Log* form will be properly filed.
- h. Notification  
The Denali Borough Landfill Administrator will be notified whenever Unacceptable Wastes are received.
- i. Violations  
Violations of regulations will be immediately addressed as directed by the Landfill Administrator, ADEC, and/or EPA.

Type	TABLE 5.1 Unacceptable Waste	Refuse or Return to Generator	If Waste Can't be Returned, Notify	Action To Take If Unacceptable Wastes Are Discovered at Working Face
RACM	Regulated Asbestos Containing Materials	YES	DB & ADEC*	Leave it alone. Get somebody who is certified to contain and transport it to Unacceptable Waste Area.
HAZ	Acids	YES	DB, ADEC, & EPA*	Do not store adjacent to an industrial base. Segregate and store as Haz waste.
HAZ	Barrels/containers of unknown waste	YES	DB, ADEC, & EPA*	Segregate and store as Haz waste. Contain leakage.
HAZ	Chemical Wastes	YES	DB, ADEC, & EPA*	Segregate and store as Haz waste.
HAZ	Conditionally-Exempt Small Generator Wastes	YES	DB, ADEC, & EPA*	Have generator contact ADEC. Segregate/store as Haz waste.
HAZ	Corrosive Materials	YES	DB, ADEC, & EPA*	Segregate and store as Haz waste. Contain leakage.
HAZ	Degreasers	YES	DB, ADEC, & EPA*	Segregate and store as Haz waste. Contain leakage.
HAZ	Electronic equipment		DB, ADEC, & EPA*	Segregate and store as Haz waste.
HAZ	Explosives	YES	DB, ADEC, & EPA*	Segregate and store as Haz waste.
HAZ	Flammable liquids	YES	DB, ADEC, & EPA*	Segregate and store as Haz waste. Contain leakage.
HAZ	Paint and Thinners	YES	DB, ADEC, & EPA*	Segregate and store as Haz waste. Contain leakage.
HAZ	Radioactive Materials	YES	DB, ADEC, & EPA*	Leave it alone. Get somebody who is certified to contain and transport it to Unacceptable Waste Area. Segregate and store as Haz waste. Contain leakage.
HAZ	Solvents	YES	DB, ADEC, & EPA*	Segregate and store as Haz waste. Contain leakage.
MEDICAL	Medical Wastes	YES	DB & ADEC*	Segregate and store as Haz waste.
OTHER	Bulk Liquids	YES	DB & ADEC*	Dairy to Anderson lagoon. Spill water outside of landfill footprint.
PCB	PCB Materials	YES	DB & ADEC*	Segregate and store as Haz waste. Contain leakage.
PETRO SOIL	Petroleum Contaminated Soil *	YES	DB & ADEC*	Segregate and store as Haz waste.
HAZ	Oily waste, used oil and grease	YES	DB & ADEC*	Segregate and store as Haz waste. Contain leakage.
WW	Honey Bucket Wastes	YES	DB & ADEC*	Drain in drainage basin, dispose of drain soil in MSW.
WW	Septage	YES	DB & ADEC*	Contact Anderson to dispose in Septage Lagoon.
WW	Sewage Sludge	YES	DB & ADEC*	Dispose as ADEC directs.
HAZ	Ethylene/propylene glycol	YES	DB & ADEC*	Segregate and store as Haz waste. Contain leakage.
HAZ	Hazardous Waste	YES	DB, ADEC, & EPA*	Leave it alone. Get somebody who is certified to contain and transport it to Unacceptable Waste Area. Segregate and store as Haz waste. Contain leakage.

DB = Denali Borough, ADEC = Alaska Department of Environmental Conservation, and EPA = Environmental Protection Agency. See Section 5.3, Part h. \* See Section 8.7 for maximum allowable

TABLE 5.2 ACCEPTABLE WASTES

Waste Material	General Processing						Haul Of site
	Screen for unacceptable Waste	Stockpile in Processing Area	Stockpile in Unacceptable Waste Area	Compact or Crush	Dispose in MSW Disposal Cell	Dispose in Inert Waste Disposal Cell	
Aluminum		x					x
Animal Carcasses (1)	x				x		
Cardboard	x				x		
Construction/Demolition Debris	x					x	
Empty barrels/Drums/Containers (2)	x			x		x	
Household Hazardous Waste (3)	x		x		x		x
Lead-Acid Batteries (4)	x		x				x
Oil Filters (5)	x			x	x		
Paper	x				x		
Plastic	x				x		
Petroleum-contaminated Soil (6)	x					x	
Scrap Metal(7)	x	x				x	x
Junk Vehicles (8)	x	x		x		x	x
White Wastes (9)	x	x		x		x	
Wood Waste	x	x				x	
Waste Oil and Grease (10)	x	x					

- 1) Carcasses will be immediately buried and covered with a minimum of 12 inches of earthen materials.
- 2) Empty containers are defined as containing not more than 1 inch of residue. If pressurized, the container is considered empty if it is at atmospheric pressure and has a hole in the container or the valve removed.
- 3) Encourage residents to separate HHW and deposit at Transfer Station or Landfill, free of charge. The borough will contact Hazardous Waste collector to collect HHW annually.
- 4) Oil Filters must be drained and crushed prior to acceptance and disposal.
- 5) Petroleum contaminated soil with concentrations below state regulatory limits may be stockpiled and used for daily cover or intermediate cover material (See Section 8.7)
- 6) Drain fluids and remove the battery and fuel tank before finally disposing, and periodically crushing, vehicles in the Junk Vehicle Processing Area.
- 7) Segregate Refrigerators, freezers and A/C until the Freon can be removed by authorized personnel.
- 8) Waste oil and grease will be contained in double wall tanks until used in the waste to energy program.

## 6.0 MANAGEMENT OF HHW

### 6.1 HHW Defined

HHW is any material discarded from households, which may threaten human health or the environment when disposed of improperly. The document *Household Hazardous Waste, What's that mean?* is a description of HHW prepared by the borough and presented in Appendix A. For the purposes of HHW, household includes single and multiple residences, hotels and motels, bunk-houses, ranger stations, crew quarters, campgrounds, picnic grounds, and day use recreation areas as stated in AS 40, Section 60.015.

### 6.2 HHW Storage Area

Operators shall divert significant (gross) quantities of HHW observed entering the Landfill. HHW diverted from MSW waste stream will be:

- Logged as Unacceptable Waste, and
- Stored in HHW Storage Area.

## 7.0 PROCESSING AREA

### 7.1 Processing Area

- a. Salvaging in the Landfill or Processing Area is prohibited except in posted areas.
- b. Processing Area Purpose
  - i) The processing area is intended to temporarily store waste, which needs special processing before disposal.

## 8.0 SPECIAL WASTES

### 8.1 Special Wastes Defined

Special wastes, is waste that requires special handling or disposal procedures and includes:

- Barrels, drums, and pressurized containers;
- Animal carcasses;
- Non-Freon type white waste (stoves, microwaves, dishwashers, dryers, etc.);
- Freon type white waste (refrigerators, freezers, air condition units, etc.);
- Junk Vehicles motors/parts;
- C&D Debris;
- Waste Oil and grease;
- Tires;

- Scrap Metal;
- Mattresses and/or box springs;
- Metal Poles (over 4 feet in length), Pipes, Chains, and Cables;
- Lead-acid Batteries;
- Electronic Equipment (computers, monitors, copiers, ink cartridges)

Note: Please see, "How do I dispose of .....????," for further instructions on Special Waste located in Appendix A.

## 8.2 Logging Special Waste

- a. Special waste will be noted by the Landfill Gate Attendant on the *Incoming Waste Receipt Log* form; and
- b. A *Special Waste Form*, will be filled out by the Landfill Gate Attendant for all special wastes:
  - i) Junk vehicles (also complete *Junk Vehicle Disposal Form*);
  - ii) Freon type white waste appliances such as refrigerators, freezers, A/C units, or any appliance containing Freon type gas needs to be identified with the serial number;

## 8.3 Empty Drums, Barrels, and Containers

Empty containers are defined as containing not more than 1 inch of residue. If the container is pressurized, it must have a hole in the container or the valve removed to be considered empty.

Non-empty or unprepared drums, barrels, and containers will not be accepted.

Empty and prepared barrels, drums and pressurized containers must be crushed by landfill operators before disposal in the Landfill.

## 8.4 Animal Carcasses

Animal parts and carcasses must be buried immediately in the MSW working cell upon receipt at the Landfill with a minimum of 12 inches of earthen cover.

## 8.5 White Wastes: Non-Freon and Freon type appliances

a. Freon containing white wastes will be crushed and disposed of in the C & D Pit after proper evacuation. White Wastes includes refrigerators, freezers, stoves, ovens, microwaves, washers, dryers, dishwashers, etc.

b. Other non-Freon containing white waste shall be stored shall be stored in scrap metal area to be recycled.

Certified personnel will remove Freon or Freon type gas from freezers, refrigerators, A/C units, or any other Freon type containing appliance annually or sooner.

## 8.6 Junk Vehicle Disposal

- a. Segregate Junk Vehicles in the processing area.
- b. Junk vehicles (cars, trucks, motorcycles, trailers, all terrain vehicles, etc.) will be kept in the processing area until deposal in the Inert Waste cell or transported off site for deposal or recycling at another location.
- c. Remove Fuel – This is the responsibility of the vehicle owner or transporter.
- d. Remove other Liquids - Liquid must be drained from all Junk Vehicles during processing. This is the responsibility of the landfill operators. This includes the removal of:
  - i) Gear box oil;
  - ii) Steering fluid;
  - iii) Hydraulic fluid;
  - iv) Crank case oil; and
  - v) Transmission oil.

The five listed fluids above will all be stored in an appropriate doubled wall tank until used in the waste to energy program.

- e. Landfill operators will also remove the vehicle's Coolant (glycol/antifreeze) and store in an appropriate container for shipment to an off site disposal location.
- f. Remove the battery. This is the responsibility of the landfill operators.
- g. Remove the Fuel Tank - This is the responsibility of the landfill operators.
- h. Remove any Freon - Freon will be removed by a state certified person at the landfill.
- i. Junk vehicles will be crushed by operators prior to disposal. Before crushing Landfill operators will make sure the vehicle has been emptied of all fluids and Freon and the fuel tank and battery removed have been removed.
- j. Log the following Junk Vehicle information on the *Junk Vehicle Disposal Form*:
  - i) vehicle description, including VIN (vehicle identification number) and license number, if available.
  - ii) owner of vehicle
  - iii) where the vehicle was transported from
  - iv) haulers signature

## 8.7 Construction & Demolition Wastes (C&D Wastes)

C&D wastes will be disposed in the dedicated Inert Waste Disposal Area. Construction and demolition wastes are inert and non-putrescibles materials only, which includes:

- Construction debris;
- Non-regulated asbestos containing materials (Non-RACM) as defined in *How to Dispose Of Wastes from Building Demolition, Renovation and Construction Projects* provided in Appendix A;

- Concrete and asphalt waste;
- Waste lumber;
- Burned building waste;
- Insulation material;
- Plastic. (not plastic bags, which go in MSW waste)

Inert material means: lacking in chemical or biological action (very slow to break down).

Non-putrescibles material means: not likely to rot or give off a foul odor.

Inert waste will be covered at least twice monthly during summer months, including the end of September. During the winter months, cover at least monthly if cell is active. Increase the cover frequency if necessary to control litter.

“Light fluffy” Inert waste, which may easily be blown about by the wind, *may* be land filled with MSW waste or covered daily.

#### 8.8 Waste Oil and grease

Waste Oil and grease wastes need to be separated as a special waste and stored in an appropriate double walled container until used in the waste to energy program.

#### 8.9 Tires

Tires will be accepted in small quantities of 10 or less.

#### 8.10 Scrap Metal

Scrap Metal will be separated and stored in the processing area until disposed in the active Inert Waste cell or transported off site for recycling.

#### 8.11 Mattresses and/or box springs

Mattresses and/or box springs will be accepted only when all materials are stripped from frame. Metal will be placed in the metal processing area.

#### 8.12 Metal Poles, Pipes, Chains, and Cables

Metal Poles (over 4 feet in length), Pipes, Chains, and Cables will be separated in the processing area until disposal in the active Inert Waste cell or transported off site for recycling.

## DENALI BOROUGH LANDFILL

### 8.13 Lead-acid Batteries

Lead-acid batteries will be stored in approved containers and transferred off site for recycling or disposal.

### 8.14 Placement and Compaction of Special Waste in Landfill Cells

Waste shall be placed against the working face of the landfill cell, the current location of fill cover. Cells are filled starting from the back and working forward. Fill is applied on about a 3:1 slope and prevents water from ponding or flowing into waste.

Specific Placement and compaction requirements include:

Minimize the working face, 100 feet or less

Compact with 4 or 5 equipment passes

Compact on a 3:1 slope, which rips, tears, and improves compaction

\*Nonregulated asbestos-containing material (non-RACM) may be accepted for disposal at the landfill. This will be placed on the working face and covered as soon as possible (within 24 hours). Under no circumstances may any material containing non-RACM be placed on any surface or roadway that is subject to vehicular traffic or disposed of by any other means by which the material could be crumbled into a friable state.

### 8.15 Cover

The inert waste will be covered at least twice monthly during summer months, including the end of September. During winter months, cover at least monthly if cell is active. Increase the cover frequency if necessary to control litter.

Cover Material: Local silt loam, gravelly-sand earth or coal ash will be used as cover material. Cover material will be stockpiled adjacent to landfill cells and used to cover all deposited waste with a six inch minimum of cover being applied.

### 8.16 Intermediate Cover

Local silt loam, gravelly-sand, or coal ash will be used as intermediate cover material. Intermediate cover is a minimum of 12 inches thick and will be applied at 10 to 15 feet intervals to create a base or foundation for the next layer or lift.

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## OPERATIONS PLAN

Milepost 282.5 George Parks Highway, Anderson, Alaska  
Denali Borough

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## 9.0 MSW

### 9.1 Definition

MSW is all waste except unacceptable waste and special wastes. MSW includes:

- Food or putrescibles,
- Rubbish (worthless trash),
- Fireplace ashes,
- Coal ashes from known and tested sources.

### 9.2 Placement and Compaction of MSW in the Landfill Unit

MSW will initially be placed against the backside of the Landfill disposal unit. A lift of MSW, approximately 5 to 8 feet high, will be filled from the back of the cell forward. The working face is the current location of fill/daily cover; it is the front edge of the current MSW fill layer.

When the first lift of MSW has been laid down, another 5 to 8 feet high lift is applied on top of the first one. Again, the cell is filled starting from the back and working forward. Fill is applied and spread on about a 3:1 slope and prevents on-site water from ponding on or flowing into the waste.

Specific placement and compaction requirements include:

- Minimizing the working face. The working face will not exceed 100 feet wide.
- Compaction - Using a tracked vehicle, compact MSW in 2 to 3 feet thick layers with 4 to 5 passes of compaction equipment.
- Compact refuse on about a 3:1 slope, which rips and tears refuse, and improves compaction.
- Modifications to the daily placement and compaction of MSW in the Landfill unit will be submitted in writing to the ADEC for approval prior to implementation.

### 9.3 Daily Cover

- b. Daily Cover Material: Either the locally available silt loam, gravelly-sand earth materials, or coal ash will be used as daily cover material. Cover material will be stockpiled adjacent to the Landfill disposal unit.
- c. Daily Cover: Compact, consolidate, and cover all deposited waste with a minimum of six inches of soil or coal ash by the end of each operating day or more often if windy.
- d. Daily Cover Exception: ADEC approves the following daily cover exception:
  - i) Placement, compaction, and cover of refuse may be suspended during inclement weather (-30 F, or wind 40 mph and severe rain or snow), but not delayed more than 4 days.
  - ii) Animal parts and carcasses will be buried with a minimum of 12 inches of soil cover regardless of season or weather.

The reduced winter daily cover schedule may be temporarily increased by ADEC or the borough to control litter, animals, disease vectors, fire, and odor or for other causes.

#### 9.4 Intermediate Cover

Either of the locally available silt loam, ash or gravelly-sand earth materials will be used as intermediate cover material.

Intermediate covers are a minimum of 12 inches thick and applied at about 10 to 15 feet height intervals. This serves as the base or foundation for the next layer or lift. The Closure Plan and Section Views, provided in Appendix E, illustrate the use of intermediate covers.

### 10.0 LANDFILL UNIT CLOSE OUT

The Denali Borough will contact ADEC when a Landfill unit is full. The borough will provide ADEC with an estimate of the volume of intermediate and final cover material used during close out. The borough will monitor closure procedures and collect photographs of the site:

- Before and after the intermediate cover is applied; and
- Before and after the final cover is applied.

The borough will document the closure procedure in a summary report which will include the quantity of material, type of equipment, and labor used and associated cost. The location of the closed unit will be marked on the site plan. A brief Landfill unit closure report will be submitted to ADEC.

#### 10.1 Landfill Unit Close Out Schedule

Each Landfill Unit will be closed out within 30 days after it is full or in May if it fills up during winter. The final cover will be seeded after it is applied. The seeded cover will be watered during dry weather. Sparsely vegetated areas or bare spots of the final cover will be re-seeded again in October. The Landfill site is zoned industrial and is anticipated to remain a vegetated, industrial-zoned parcel following closure of the last Landfill unit.

#### 10.2 Final Cover Cap Material

Final cover material shall be select stockpiled silt loam, free of roots, other vegetative matter and cobbles.

#### 10.3 Final Cover Procedure

Final Cover for a Landfill unit close-out includes:

- Applying cover at about a 4% slope (25:1) to divert rainwater and/or snow melt away from the cell;
- Applying approximately 18 inches of silty overburden material and 6 inches of topsoil as the final cover over the intermediate cover;
- Seeding the final cover material with an approved grass mix; and

- Re-grading and re-seeding the final cover material whenever erosion degrades the cover.

The Closure Plan and Section Views, provided in Appendix E, illustrate the use of the final cover.

## 11.0 FACILITY AND MAINTENANCE

### 11.1 Fencing and Gates

The access gate will be locked when there is no operator on duty. The gate and lock will be maintained in working order at all times. Perimeter fencing will be inspected weekly, and repaired as needed.

### 11.2 Signs

Landfill Gate Sign - The signs at the Landfill gate will be visible and readable at all times and will include the following information:

- Denali Borough Landfill,
- Owned by Denali Borough,
- Denali Borough phone number,
- Operating time - when open,
- List of special wastes,
- List of unacceptable wastes.

### 11.3 Access Roads

Access roads to and within the Landfill will be maintained in passable condition for standard and commercial vehicles. Snow will be plowed within one Landfill-operating day after a major snowfall.

### 11.4 Snow Removal

Snow will be removed from the currently-in-use Landfill disposal unit as required on a daily basis. Removing snow from the working face reduces leachate generation, improves compaction effectiveness, and avoids subsidence caused by the snowmelt.

### 11.5 Litter Control

Litter control includes the following procedures:

- Maintain fence to provide litter barrier;
- Collect litter within 500 feet of facility boundaries and along the access to the site monthly;
- Collect litter within the facility and along the fence after breakup and at end of summer.

## 11.6 Animal/Vector Control

Animal and vector control include the following procedures:

- Maintaining daily, intermediate, and final covers to reduce/prevent wildlife and domestic animal contact with waste;
- Maintaining fence to provide barrier for wildlife and domestic animal entry into waste handling areas;
- Maintaining adequate drainage;
- Instituting vector control measures as needed to prevent health hazards or nuisances.

## 11.7 Fire Control

Burning is not permitted at the Landfill, except for vegetation removed from the Landfill footprint. Fire protection and management procedures include:

- Place, compact, and apply daily cover on the same day waste is received;
- Use cover material and water to immediately extinguish fires observed at the working face and notify ADEC;
- Equip the Office and Unacceptable Waste Storage Area with chemical fire extinguishers.

## 11.8 Dust Control

Dust control measures may include:

- Spraying access roads and/or working face with water, and
- Providing operator with respiratory protection.

## 11.9 Odor, Noise, Traffic and Nuisance Control

Odor control measures may include:

- Maintaining daily, intermediate, and final covers.

Noise and traffic are not anticipated to generate adverse effects due to the remote location of the Landfill. Discharging of firearms or off road vehicle use is considered a nuisance to regular Landfill operations and is prohibited within the Landfill boundaries. The exception would be to protect human life.

## 12.0 SITE MONITORING

Monitoring at the Landfill will consist of field testing ambient air for the presence of methane and visual inspections of wastes and site features by the Landfill Operator/s and Gate Attendant.

Groundwater monitoring will also be performed and is presently being conducted on an annual basis by Shannon & Wilson.

### 12.1 Monitor for Methane

- a. The regulatory limits for methane are as follows:
  - i) at the Landfill boundary < 5000 ppm (the lower explosive limit for methane), and
  - ii) Within any facility building < 1250 ppm (25% of the lower explosive limit for methane).
- b. The Landfill Operator will monitor for methane quarterly and complete the *Quarterly Gas Monitoring Report* form.
  - i) The Landfill Operator will "screen" the ambient air at the 5 methane gas monitoring points shown on the *Quarterly Gas Monitoring Report* form and on the 1998 As-Built Survey drawing provided in Appendix B. An Alaska Instruments Inc. Model G-82 gas analyzer, Instrument No. 520020044 will be used to collect the ambient air readings and will be calibrated prior to use with methane calibration gas.
  - ii) The methane level will be tested at or within the perimeter of the Landfill unit fencing, along each side of the fencing. If methane concentration exceeds 5000 ppm at the fence, testing will be conducted at the Landfill boundary.
  - iii) The methane level will also be tested within the restroom of the office as well as at the equipment shop (and other buildings which are erected on the Landfill parcel).
  - iv) Methane monitoring test results will be recorded on the *Quarterly Gas Monitoring Report* form and filed at the Denali Borough and Landfill Office.
  - v) If methane levels exceed the limits listed above and in 18 AAC 60.350, the Landfill Manager and ADEC will be notified immediately.

### 12.2 Visual Monitoring

- a. The condition of the following will be noted by the Landfill Operator on the *Monthly Inspection Log* and the *Monthly Visual Inspection Report* forms provided in Section 16.0:
  - i) Fencing, gates, and signs;
  - ii) Access roads and drainage;
  - iii) Landfill equipment status;
  - iv) Nuisance conditions;
  - v) Structures and unacceptable waste storage areas;
  - vi) Cover material stockpile;
  - vii) Monitoring wells;
  - viii) Other observations/actions;
  - ix) Fluids and odors;

- x) Burning waste;
- xi) Litter;
- xii) Storm water;
- xiii) Vegetation;
- xiv) Animal/Vector control;
- xv) Hazardous Materials; and
- xvi) Closed cells.

b. Refuse received will be noted by the Landfill Operator on the Weekly Activity Log. Information should include the number of deliveries accepted, weight of categorized waste, amount of special handling fees, cover material used, unacceptable waste, equipment repairs and fuel usage.

### 12.3 Groundwater Monitoring

See Appendix C for groundwater monitoring program.

- a. The Solid Waste staff will provide assistance to accomplish groundwater monitoring as required by the ADEC solid waste permit. A detailed groundwater monitoring sampling, testing and QA/QC program and subsequent revisions are included in Appendix C of this operations plan. The Denali Borough Groundwater Monitoring QA/QC Plan, by Montgomery Watson, is dated June 23, 1997. Recommended changes to the groundwater monitoring plan were provided in Shannon and Wilson's Monitoring Program, Denali Borough Landfill letter, dated September 13, 2001. ADEC's approval of the recommended changes to the groundwater monitoring plan is documented in Modification of Permit #9731-BA006, Denali Borough LF, Change Groundwater Monitoring Requirements, dated October 9, 2001.

The Denali Borough will solicit proposals from qualified consultants to provide groundwater sampling, testing, and QA/QC according to the monitoring program specified in Appendix C. Groundwater monitoring is presently being conducted on an annual basis by Shannon and Wilson.

### 12.3 Groundwater Monitoring (cont.)

- b. Groundwater quality and water table elevation will be monitored at four monitoring wells, as shown on the 2012 as-built survey provided. Monitoring well #1 is an up-gradient site and will be used as an indicator of background water quality. Monitor well #2 is a tranverse-gradient site and will be used to gauge any transverse spreading of leachate derived from the landfill. Monitor wells #3 and #4 are down-gradient sites and are intended to be the initial indicators of leachate plume migration from the landfill.

The point of compliance for water quality standards is down-gradient at the boundary of the landfill facility. Water quality standards must be maintained at this point.

- c. Groundwater Monitoring Requirements: All groundwater monitoring activities will be conducted in accordance with the Denali Borough QA/QC Plan and 18ACC 60.820-850.

## 13.0 PERSONNEL REQUIREMENTS

### 13.1 Training

Landfill gate keepers and operators will obtain at the first opportunity:

Manager of Landfill Operations certification (MOLO) and Hazardous Waste identification training.

### 13.2 Health and Safety

- a. Personal Protective Equipment (PPE) – Refer to Employee Safety Manual.

Hazardous Waste handling includes specialized equipment.

Equipment Operation – Operators shall observe due care in operating heavy equipment at the landfill facility.

- b. General Hygiene - Smoking and eating is prohibited at the Landfill and Transfer Station, except in designed break areas.

### 13.3 Personnel Responsibilities

Responsibilities are as herein described. They include:

- Attending the gate during open hours, logging incoming waste, refusing unacceptable waste, and collecting appropriate fees;
- Disposing of waste properly, according to type;
- Maintaining equipment;
- Assisting contract consultant in conducting groundwater monitoring;
- Maintaining facility including fencing, gates, access roads, fuel storage, hazardous waste storage, and equipment and office structure, etc.;
- Litter control;
- Maintaining daily, interim, and final covers; and
- Any job as assigned

### 13.4 Record Keeping

Records will be kept by the Landfill Manager at the Borough Office with a duplicate copy kept at the Landfill Office for review by the Borough, ADEC and/or EPA. The complete record will include the current Permit, the current Operations Plan, the 2007 Solid Waste Permit Application, the April 14, 1997 Solid Waste Management Permit Application, training procedures and records, and other required documents. Record Keeping requires that the following tasks be performed:

- a. The Gate Attendant will be responsible for:
  - i. Completing and filing the *Incoming Waste Receipt Logs, Special Waste Forms, and Junk Vehicle Disposal Forms*; and
  - ii. Bookkeeping as directed by the Borough to track cash and credit card receipts, along with volume and active reports as requested by the borough;
- a. The Landfill Operators will be responsible for:
  - i. Completing and filing *Unacceptable Waste Logs, Waste Inspection Logs, Quarterly Gas Monitoring Reports, Monthly Inspection Logs, Monthly Visual Inspection Reports, Weekly Activity Logs*;
  - ii. Maintaining the *Incoming Waste Receipt Log* book;
  - iii. Filing *Unacceptable Waste Logs* according to:

- A. Activity Pending;
  - B. Activity completed or unacceptable waste transported off site.
  - iv. Filing Waste Inspection Logs by year;
  - v. Keeping an equipment maintenance log of each piece of Landfill equipment; and
  - vi. Maintaining groundwater monitoring information.
- c. The Landfill Manager will be responsible for:
- i. Submitting *Quarterly Gas Monitoring Reports*, and the annual *Groundwater Monitoring Report* to ADEC; and
  - ii. Keeping a complete set of records at the Borough Office with a duplicate copy kept at the Landfill Office.

#### 14.0 EQUIPMENT MAINTENANCE

The following responsibilities apply to equipment operators:

- Oil, grease, and inspect Landfill heavy equipment according to the manufacturers recommended schedule. Likewise change filters, minor parts, belts, hoses, etc. which wear out periodically.
- Follow the borough's preventive maintenance schedule and daily walk around procedures.
- Keep a record of fuel usage, maintenance, repairs, per piece of equipment and/or vehicle and on-hand fuel.
- Maintain the shop and tools in working order, and maintain the tool and equipment spare parts inventory.
- Immediately repairing damage to the facility and structures including, but not limited to, roads, fencing, scales, methane gas monitoring equipment, and monitoring wells.

15.0 LOGS

15.1 Incoming Waste Receipt Log

DATE: \_\_\_\_\_ SEQUENCE #: \_\_\_\_\_

**TYPE OF WASTE:**

MSW: \_\_\_\_\_ CONSTRUCTION & DEMOLITION: \_\_\_\_\_  
SPECIAL WASTE: \_\_\_\_\_

**HAULER INFORMATION:**

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP: \_\_\_\_\_

PHONE: \_\_\_\_\_

HAULER VEHICLE REGISTRATION OR PLATE NO.: \_\_\_\_\_

FEE PAID: \$ \_\_\_\_\_

LANDFILL EMPLOYEE: \_\_\_\_\_

**COMMENTS:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

15.2 Junk Vehicle Disposal Form

**CONTACT INFORMATION:**

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY, STATE, ZIP: \_\_\_\_\_

PHONE: \_\_\_\_\_

**VEHICLE INFORMATION:**

MAKE: \_\_\_\_\_ MODEL: \_\_\_\_\_

COLOR: \_\_\_\_\_

LICENSE PLATE #: \_\_\_\_\_

YEAR: \_\_\_\_\_ VIN #: \_\_\_\_\_

**VEHICLE OWNERSHIP:**

\_\_\_\_ NO OWNERSHIP PAPERWORK AVAILABLE  
OR  
\_\_\_\_ TITLE OR CURRENT DMV PAPERWORK PROVING  
OWNERSHIP (attach)

**LOCATION VEHICLE TRANSPORTED FROM:**

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
(SIGNATURE OF OWNER AUTHORIZING DISPOSAL)  
(DATE)\_\_\_\_\_

\_\_\_\_\_  
(PRINTED NAME)

**TRANSPORTER:**

\_\_\_\_\_  
(NAME OF TRANSPORTER) (BUSINESS NAME IF APPLICABLE)

\_\_\_\_\_  
(SIGNATURE OF TRANSPORTER)  
(DATE)\_\_\_\_\_

**Vehicles will not be accepted if containing garbage upon arriving at the landfill.**

Action taken: \_\_\_\_\_ ACCEPTED,  
\_\_\_\_\_ REFUSED

15.3 Monthly Inspection Log

OPERATOR: \_\_\_\_\_

DATE: \_\_\_\_\_

1. Condition of Fencing, Gates, and signs?

\_\_\_\_\_  
\_\_\_\_\_

2. Condition of access roads?

\_\_\_\_\_  
\_\_\_\_\_

3. Condition of drainage features (erosion problems, culverts blocked, standing water, frost heaves, noticeable settlement)?

\_\_\_\_\_  
\_\_\_\_\_

4. Landfill equipment status (major items – is equipment down)?

\_\_\_\_\_  
\_\_\_\_\_

5. Nuisance conditions (litter, dust, fire, animals, etc.)?

\_\_\_\_\_  
\_\_\_\_\_

6. Condition of buildings, unacceptable waste storage area?

\_\_\_\_\_  
\_\_\_\_\_

---

7. Condition of cover material stockpile (adequate for near future, extended future)?

---

---

8. Condition of Wells? \_\_\_\_\_

---

9. Other observations/actions? \_\_\_\_\_

---

**NOTE:  
The operator will repair or expedite repairs to deficiencies noted in this log within thirty (30) days or weather permitting.**

**15.4 Monthly Visual Inspection Report**

DATE: \_\_\_\_\_

NAME OF INSPECTOR: \_\_\_\_\_

POSITION: \_\_\_\_\_

Please submit a copy of this report to ADEC Solid Waste Program	
EVALUATE AND CIRCLE EACH ITEM -A (for <b>Acceptable</b> ) or U (for <b>Unacceptable</b> ) and/or N (for <b>Notes which you can provide</b> )	
ITEM 1.) <b>Fluids and Odors</b> -No signs of water ponding, leachate seeps, or odors.	EVALUATION:    A    U    N
ITEM 2.) <b>Burning Waste</b> - No open fires and no accumulation of waste within the landfill boundary.	EVALUATION:    A    U    N
ITEM 3.) <b>Cover Material</b> - Adequate soil cover remains in place over the waste area, no active erosion or waste visible.	EVALUATION:    A    U    N
ITEM 4.) <b>Access and Control</b> - Road to the site is maintained and access is controlled by fences/gates and signs are posted and easily readable.	EVALUATION:    A    U    N
ITEM 5.) <b>Litter</b> - No litter along fence and outside of landfill boundary. Regularly maintained.	EVALUATION:    A    U    N
ITEM 6.) <b>Storm water control</b> - adequate ditches to prevent run-on and erosion. Ponding areas are graded or filled when needed.	EVALUATION:    A    U    N
ITEM 7.) <b>Vegetation</b> - vegetation is stable with no significant bare spots.	EVALUATION:    A    U    N
ITEM 8.) <b>Animal/Vector Control</b> - No visible signs of animal presence or attractions. No odors and waste adequately buried.	EVALUATION:    A    U    N
ITEM 9.) <b>Hazardous Materials</b> (used oil, paints, batteries etc.) – Properly stored and covered.	EVALUATION:    A    U    N
ITEM 10.) <b>Closed Cells</b> - Former waste disposal areas are backfilled and good soil cover is maintained.	EVALUATION:    A    U    N
Notes:	
(use back of inspection sheet)	

15.5 Quarterly Gas Monitoring Report

PREPARED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
\_\_\_\_\_

**WEATHER REPORT:**

Air Temperature: \_\_\_\_\_

Conditions: \_\_\_\_\_ Windy \_\_\_\_\_ Calm

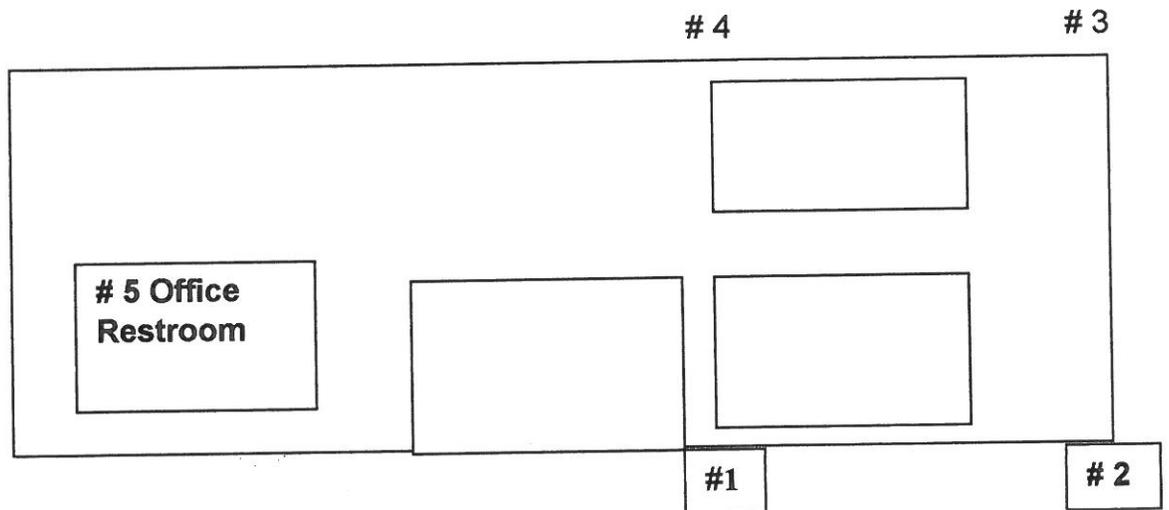
Clouds: \_\_\_\_\_ Clear \_\_\_\_\_ Partly Cloudy \_\_\_\_\_ Cloudy

Barometer Reading: \_\_\_\_\_

Barometer: \_\_\_\_\_ Raising \_\_\_\_\_ Dropping

**SITES:**

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_



15.6 Special Waste Form

**HAULER:**

**NAME:** \_\_\_\_\_

**ADDRESS:** \_\_\_\_\_

**CITY, STATE, ZIP:** \_\_\_\_\_ **PHONE:** \_\_\_\_\_

\_\_\_\_\_  
(SIGNATURE OF HAULER)

\_\_\_\_\_  
(DATE)

Special waste means those materials and items that require special inspection or disposal procedures and *possible* additional costs. List Special Waste Received.

**Without a special fee:**

<b><u>ITEM:</u></b>	<b><u>QUANTITY:</u></b>
Tires	_____
Batteries	_____
Drums, barrels, containers	_____
Non-Freon type white waste	_____
Mattresses & box-springs	_____
Metal pipes/poles/cable/chain/wire	_____
Scrap metal	_____
Waste oil & grease	_____

**\$35.00 fee:**

<b><u>ITEM:</u></b>	<b><u>QUANTITY:</u></b>	<b><u>FEE:</u></b>
Freon type white waste	_____	\$ _____

Freon type white waste \_\_\_\_\_ \$ \_\_\_\_\_

**TYPE of ITEM:** \_\_\_\_\_ **SERIAL #** \_\_\_\_\_

Junk Vehicle\* \_\_\_\_\_ \$ \_\_\_\_\_

\* Must fill out Junk Vehicle Disposal Form also.

**Without a special fee:**

Animal carcasses \_\_\_\_\_  
C&D (inert waste only) \_\_\_\_\_

**OPERATOR FILLING OUT FORM:** \_\_\_\_\_

15.7 Unacceptable Waste Log

I. INITIAL UNACCEPTABLE WASTE CONTACT:

DATE: \_\_\_\_\_

TYPE OF UNACCEPTABLE WASTE:

- |   |  |
|---|--|
| <input type="checkbox"/> Hazardous Waste                            | <input type="checkbox"/> Petroleum Contaminated Soil |
| <input type="checkbox"/> Asbestos                                   | <input type="checkbox"/> Waste oil & grease          |
| <input type="checkbox"/> Medical                                    | <input type="checkbox"/> Sewage/septage              |
| <input type="checkbox"/> PCB  | <input type="checkbox"/> Liquid                      |
| <input type="checkbox"/> HHW  | <input type="checkbox"/> Radioactive                 |
| <input type="checkbox"/> Sealed barrel/drum/container               | <input type="checkbox"/> Electronic equipment        |
| <input type="checkbox"/> Ethylene/propylene glycol                  | <input type="checkbox"/> Acid                        |
| <input type="checkbox"/> Chemical                                   | <input type="checkbox"/> Corrosive                   |
| <input type="checkbox"/> Degreaser                                  | <input type="checkbox"/> Explosives                  |
| <input type="checkbox"/> Flammable                                  | <input type="checkbox"/> Paint & thinners            |
| <input type="checkbox"/> Solvents                                   | <input type="checkbox"/> Honey bucket                |
| <input type="checkbox"/> Conditionally exempt small waste generator | <input type="checkbox"/> Other                       |

Describe Waste: \_\_\_\_\_

Type of waste? \_\_\_\_\_

How much? \_\_\_\_\_

How stored? \_\_\_\_\_

Discovered when? where? \_\_\_\_\_

Action Taken: (contacted Denali Borough)

II. FOLLOW UP REPORT: DATE \_\_\_\_\_

How was unacceptable waste disposed? \_\_\_\_\_

Was generator/source identified\*? \_\_\_\_\_

\* (Not necessary to report source/generator of HHW)

EPA Identification # issued?, if so what # \_\_\_\_\_

Hazardous Waste Hauler? (if any) \_\_\_\_\_

Hazardous Waste Manifest Copy in file? (if issued) \_\_\_\_\_

Reporting Operator: \_\_\_\_\_ Date: \_\_\_\_\_

15.8 Waste Inspection Log

#	DATE	TIME	LF EMPLOYEE	NAME OF HAULER	COMMENTS
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

NOTE: LOAD INSPECTIONS SHOULD BE CONDUCTED AT THE WORKING FACE.

SEQUENCE # \_\_\_\_\_

15.9 Weekly Activity Log

**NUMBER OF SOLID WASTE DELIVERIES:**      **Week Ending:** \_\_\_\_\_

Hauler: \_\_\_\_\_

**POUNDS OF REFUSE:**

MSW: = \_\_\_\_\_

C&D: = \_\_\_\_\_ Special Waste\*: \_\_\_\_\_

**OTHER:**

Special Handling Fees: \$ \_\_\_\_\_

Approximate volume of cover material used: \_\_\_\_\_ tons

Unacceptable waste received / action pending:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Equipment Repairs/damage/out of service/etc.:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Equipment fuel used: \_\_\_\_\_ gals.      Heating fuel used: \_\_\_\_\_ gals.

Equipment fuel on-hand: \_\_\_\_\_ gals.      Heating fuel on-hand: \_\_\_\_\_ gals.

Equipment fuel purchased: \_\_\_\_\_ gals.      Heating fuel purchased: \_\_\_\_\_ gals.

**APPENDIX A**  
**PERMITS, RULES, INSTRUCTION & FEES**

**A.1 – Household Hazardous Waste. What’s that mean?**

**A.2 – How Do I Dispose Of...?????**

**A.3 – Special Handling Fee Charges**

## **A. 1 Household Hazardous Waste, What's that mean?**

When leftover paint, used oil, cleaning products or any other product containing dangerous materials are thrown away, they become "household hazardous wastes."

Household hazardous waste is any material discarded from single and multiple residences, hotels and motels, bunk-houses, ranger stations, crew quarters, campgrounds, picnic grounds, and day use recreation areas that may threaten human health or the environment when disposed of improperly.

Many Denali Borough residents and visitors discard household hazardous wastes in trash cans, down the drain, or on the ground each year. Many of these wastes are chemicals which are so corrosive they can destroy steel or disintegrate plastic containers.

### **Hazardous Waste Characteristics**

**Toxicity:** ----- poisonous or lethal when ingested, touched or inhaled even in small quantities (e.g., rat poison, cleaning fluids, pesticides, bleach).

**Flammability:** ---- easily ignites (e.g., lighter fluid, spot and paint removers).

**Corrosivity:** ----- eats away materials and living tissue by chemical action (e.g., oven and toilet bowl cleaners).

**Reactivity:** ----- creates an explosion or produces deadly vapors (e.g., bleach mixed with ammonia based cleaners).

### **What are the Hazards?**

Improper handling or disposal of hazardous wastes can result in serious accidents:

- People can be harmed by drinking, eating, touching or breathing toxic chemicals.
- Refuse haulers and Landfill employees can be injured by exploding aerosol cans, spilled chemicals, or poisonous fumes.
- Firefighters can be injured by hazardous wastes when responding to fires.
- Groundwater used for drinking or irrigation can be contaminated when hazardous wastes are poured or seep into the ground.
- Bacteria needed to break down sewer and septic tank wastes can be destroyed if contaminated by untreated hazardous wastes.

***Household Hazardous Waste should never be thrown into the trash, washed down the drain or poured onto the ground.***

### **How do I Avoid Accidents?**

- Never leave hazardous household products within reach of children.
- Buy products with less harmful ingredients (read the labels).
- **Reduce** by purchasing only the amount you need.
- **Reuse** the products by donating unused portions to friends or community organizations.
- **Recycle** by taking partially used containers to the borough landfill or transfer station.

### **How do I Properly Dispose of Household Hazardous Waste?**

- ***Do not dispose of hazardous wastes with your regular trash, on the ground or in storm drains.***
- **Do not remove products from their original containers or remove their labels.**
- **Do not refill empty containers, unless recommended by the manufacturer.**
- **For More information call (907) 582-1330.**

*You may want to replace some HHW cleaning supplies with baking soda, vinegar, or other products that aren't harmful to the environment. Think about what you can do on a personal level, it can make a big difference.*

## EXAMPLES OF COMMON HOUSEHOLD HAZARDOUS WASTS (HHW)

### CLEANING PRODUCTS

Oven cleaner  
Drain cleaners  
Wood & metal cleaners & polishes  
Toilet cleaners  
Tub, tile & shower cleaners  
Laundry bleach

### INDOOR PESTICIDES

Ant sprays & bait  
Cockroach sprays & baits  
Flea repellents and shampoos  
Bug sprays  
Household insecticides  
Moth repellents  
Mouse & rat poisons & baits

### WORKSHOP/PAINTING SUPPLIES

Adhesive & glues  
Furniture strippers  
Oil or enamel based paint  
Stains & finishes  
Paint thinners & turpentine  
Paint strippers & removers  
Photographic chemicals  
Fixatives & other solvents

### AUTOMOTIVE PRODUCTS

Motor oil  
Fuel additives  
Carburetor & fuel injection cleaners  
Starter fluids  
Transmission & brake fluid  
Antifreeze

### LAWN & GARDEN PRODUCTS

Herbicides  
Insecticides  
Fungicides & wood preservatives

### MISCELLANEOUS

Batteries  
Mercury thermostats & thermometers  
Fluorescent light bulbs  
Driveway sealer  
Kerosene  
Diesel fuel  
Gas/oil mix  
Lighter fluid

## A. 2 How Do I Dispose Of.....?????

### NOTES:

- 1) All waste received at the landfill or transfer station will be charged at the prevailing rate per pound, plus additional handling fee. The exception is separated Household Hazardous Waste (HHW) in its original container.
- 2) Under no circumstances can liquid of any kind be accepted within the waste stream.
- 3) The Cantwell Transfer Station shall only accept residential MSW and separated Household Hazardous Waste.

### WASTE ITEMS:

**Ammunition and Explosives** are NOT ACCEPTED. Contact the Alaska State Troopers for disposal assistance.

**Animal Carcasses** are SPECIAL WASTE and only accepted at the landfill. The landfill must be advised of any carcasses prior to disposal. Landfill employees will advise you where to place these items.

**Animal Feces:** Small quantities are accepted at the transfer site and landfill, but must be double bagged and tied. This waste would be part of residential MSW.

**Antifreeze** is HAZARDOUS WASTE. It shall not go in the normal waste stream. The landfill will accept antifreeze from residents, but it must be separate from normal waste.

**Appliances** are SPECIAL WASTE accepted only at the landfill. These are non-Freon type of appliances. They must be separated out of the waste stream. Landfill employees will advise you where to place these items.

**Asbestos Waste** is HAZARDOUS WASTE. The landfill is not allowed to accept regulated asbestos, but may accepted unregulated asbestos. Call 907-582-1330 for further information.

**Asphalt** is SPECIAL WASTE accepted at the landfill. Landfill employees will advise you where to place these items.

**Batteries:** Vehicle Batteries are HAZARDOUS WASTE. There are bins maintained at the landfill for collection of batteries. Small non-wet batteries such as size AA, AAA, C, etc. should be thrown in your regular waste.

**Burn Barrel Ash** should be in your residential MSW. It must be cold and contained in a tied plastic bag. Landfill employees will advise you where to place these items. **Do not bring in your burn barrel and expect to dump it at the landfill or transfer station. It will be refused.**

**Compressed Gas Cylinders:** Compressed gas cylinders are SPECIAL WASTE. They must be non-pressurized and the valve stem must be removed or a hold in the tank prior to disposal. Landfill employees will advise you where to place these items.

**Construction, Demolition and Renovation Debris (C&D):** This is material generated during the construction, demolition or renovation of a structure. This typically includes wood, bricks, rubble, drywall,

roofing materials, tiles concrete and plastics. This waste must be separated prior to arriving at the landfill. There should be no metal pipes (over 4'), cables, wire or chains include in the waste stream. Pipes, cables, wire and chains need to be separated out. Landfill employees will advise you where to place these items. C&D is Inert material lacking in chemical or biological action (very slow to break down) and Non-putrescibles material not likely to rot or give off a foul odor.

**Contaminated soils** are HAZARDOUS WASTE and will not be accepted at the landfill. These are soils that are or have been polluted with a petroleum product or products.

**Cooking Oil and Grease** are HAZARDOUS WASTE but will be accepted from all sources. However, they must be separated and declared.

**Drums/barrels** are SPECIAL WASTE, but they must have one end removed prior to disposal and must contain no residue of any hazardous or liquid waste or any other waste. They must also be separated from the waste stream. Landfill employees will advise you where to place these items.

**Exit Signs that contain radioactive waste** are HAZARDOUS WASTE and may contain small amounts of radioactive materials. Please contact the manufacturer for proper handling and disposal. Radioactive waste is STRICTLY PROHIBITED for disposal and will not be accepted. (See neon signs below)

**Fluorescent Light Bulbs:** Fluorescent bulbs are HAZARDOUS WASTE. They will be accepted in small quantities in MSW from households. Call 907-582-1330 for more information.

**Hazardous Waste:** Hazardous Wastes are STRICTLY PROHIBITED from disposal. These include any waste that is toxic, reactive (oxidizers), flammable or corrosive (acids / alkalines). This also includes any EPA listed wastes. If in doubt or you need more information please call 907-582-1330.

**Household Hazardous Waste (HHW)** is hazardous waste generated by private persons and residents as a result of non-commercial activity. HHW is any material discarded from homes which may threaten human health or the environment when disposed of improperly. For the purposes of HHW, household includes single and multiple residences, hotels and motels, bunk-houses, ranger stations, crew quarters, campgrounds, picnic grounds, and day use recreation areas as stated in AS 40, Section 60.015. For the purposes of HHW, all other Commercial operations this waste is unacceptable. If you need additional information, call 907-582-1330.

**Industrial Process Waste:** Wastes generated from industrial or manufacturing processes are NOT ACCEPTED at the landfill.

**Junk Vehicles** are SPECIAL WASTE only accepted at the landfill with PRIOR APPROVAL. All vehicles must be free of garbage with fuel removed. Contact (907) 582-1330 for information and forms. The landfill operators will handle the removal of other fluids and Freon. Landfill operators will also remove the fuel tank and battery during processing. A Junk Vehicle Disposal Form must be completed for each vehicle accepted. Landfill employees will advise you where to place these items.

**Junk Vehicle Parts/Motors** are SPECIAL WASTE accepted along with other junk vehicles. All fuel, if any, must be drained prior to bringing to the landfill. A Junk Vehicle Disposal Form is not required for motors or parts. Landfill employees will advise you where to place these items.

**Lawn Mowers and other small motor machines:** Lawn mowers and other small motor machines are **SPECIAL WASTE** which are accepted at the landfill. **All fuel, if any, must be drained from the engine/motor prior to disposal.** These items must be separated out of the waste stream. Landfill employees will advise you where to place these items.

**Liquid Waste** is **PROHIBITED** at the landfill and transfer station. **Liquid Waste is any type of waste that is liquid or can become liquid once warm.** Grease and used motor oil will be accepted, but must be separated.

**Medical Waste** is a **Hazardous Waste** and **STRICTLY PROHIBITED**. It should be transported to the hospital in Fairbanks for disposal. **The landfill will not accept ANY medical waste.**

**MSW:** Typically includes food or putrescibles, rubbish (general trash), cold fireplace ash, packing materials, office paper, etc. Also see Household Hazardous Waste (HHW).

**Neon Signs** are **Hazardous Waste**. Please contact the manufacturer for proper handling and disposal. Older lights may contain PCB's within the transformer. **NOT ACCEPTED** at the landfill.

**Paint** can be water based latex but the **paint must be dry**. Remember **No liquids**. Do not mix this type of waste with regular household waste. Dry paint will be deposited in with C&D waste at the landfill. **Oil based paints are not accepted, however the dry can will be accepted.** These dry materials and cans will be deposited in with C&D waste at the landfill.

**Propane Tanks** are **SPECIAL WASTE** and must have the valve removed or a hole in the tank. They need to be separated out of the waste stream. Landfill employees will advise you where to place these items.

**Radioactive/Nuclear Waste** is **STRICTLY PROHIBITED** and **not accepted**. Additional questions regarding the proper handling and disposal should be forwarded to the US Nuclear Regulatory Commission at (800) 952-9677.

**Refrigerators/Freezers/Air Conditioners (including vehicles)** are **SPECIAL WASTE** and must be separated out of the waste stream. Refrigerators, freezers and air conditioners are accepted at the landfill only. **There will be an additional handling fee** which will allow for Freon or Freon type gas (ammonia, etc.) removal by a qualified, licensed technician. Landfill employees will advise you where to place these items. **These items are only accepted from residential sources.**

**Septage & Honey Buckets:** Sewage and honey buckets are considered **Hazardous Waste** and **NOT ACCEPTED**.

**Smoke Alarms** are **Hazardous Waste** and contain small amounts of radioactive material. Contact the manufacturer for proper disposal instructions. Radioactive waste is **STRICTLY PROHIBITED** and **NOT ACCEPTED**.

**Tanks** are **SPECIAL WASTE** and need to be cleaned of any residual material. Tanks less than 500 gallons must have one end cut out or an opening adequate so the interior can be inspected prior to disposal. Large tanks need to be cut into manageable size pieces (6'X6' or less). Cutting is not permitted on landfill property. Tanks need to be separated out of the waste stream. Landfill employees will advise you where to place these items. **These items are only accepted from residential sources.**

**Tires:** Tires are **SPECIAL WASTE** and accepted at the landfill. Tires must be separated from the waste stream. Landfill employees will advise you where to place these items.

**Trailers/Mobile Homes:** Trailers and Mobile Homes are **SPECIAL WASTE** and accepted at the landfill. They must have all the fuel, if any, removed. **A Junk Vehicle Disposal Form must be completed for each vehicle. All vehicles must be free of garbage.** Contact (907) 582-1330 for information and forms. Landfill employees will advise you where to place these items. There will be an **additional fee** for the Freon (or Freon type gas) if there is a refrigerator or air conditioning unit. **The charge will be per item** needing removal or certification. The landfill personnel will handle removal of other fluids, Freon, the fuel tank and battery.

**Waste Oil & Grease** includes automotive and cooking used oil and grease. Oil and grease is a **SPECIAL WASTE** and will be accepted at the landfill for use in the borough's waste to energy program. The items must be separated and declared. Landfill employees will advise where materials are placed.

**THIS IS NOT MENT TO BE AN "ALL INCLUSIVE LIST."**

**If you have waste and you are unsure of how to dispose of please call 907-582-1330.**

**Special Handling Fee Charges:** If landfill personnel are required to move any waste item due to being placed in the wrong location, the hauler (public, commercial or private) will be assessed a ten (\$10) dollar handling fee for each item. If equipment is needed to move the item, there will be an additional twenty-five (\$25) dollar handling fee assessed for each item moved with equipment. All haulers will be given the opportunity to move any item in the wrong area without a handling fee prior to landfill employee moving the item.

### A.3 Special Handling Fee Charges

If landfill personnel are required to move any waste item due to being placed in the wrong location, the hauler (public, commercial or private) will be assessed a ten (\$10) dollar handling fee for each item. If equipment is needed to move the item there will be an additional twenty-five (\$25) handling fee assessed for each item moved with equipment. **All haulers will be given the opportunity to move any item placed in the wrong area without a handling fee prior to landfill employees moving the item.**

#### HAULER BEING CHARGED:

NAME: \_\_\_\_\_ ADDRESS: \_\_\_\_\_

PHONE: \_\_\_\_\_ CITY, STATE, ZIP: \_\_\_\_\_

I hereby authorize the Denali Borough Landfill to charge me or my company the additional Special Handling Fee for each item required to be moved by landfill employees, either by hand or using equipment, if necessary.

I understand I have been given the opportunity to move the item or items and I either was unable to move the item or items or refused to move the item or items.

I further understand this Special Handling Fee will be in addition to any other fees such as the normal tipping fee and handling fees for special waste, if any.

The Special Handling Fee being charged will be \$ \_\_\_\_\_.

\_\_\_\_\_  
(SIGNATURE OF HAULER AUTHORIZING CHARGE)

\_\_\_\_\_  
(PRINTED NAME)

\_\_\_\_\_  
(DATE)

#### LANDFILL EMPLOYEE NOTES AND COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LANDFILL EMPLOYEE: \_\_\_\_\_