



Animal Waste Landfill Permit Application
 Alaska Department of Environmental Conservation
 Solid Waste Program

DEC Office Only:

Landfill Name:

Authorization #:

Instructions:

This application is for a new permit or a permit renewal for an animal waste landfill.

If the required information is not applicable, please explain why. If it is included in a previous application AND it has not changed since submitted, you must provide a specific reference or citation to the document and page where it can be found.

For new facilities and lateral expansions, prepare a draft application with a list of any questions, and schedule a meeting with the local DEC office.

Section 1. Property Information

Applicant Name:

Nearest Community:

Legal Property Description:

General Description of Location:

Latitude:

Longitude:

Section:

Township:

Range:

Meridian:

Landowner:

Contact Name:

Address:

City:

State:

Zip:

Email:

Phone:

Section 2. Contact Information

Applicant:		Contact Name:		
Address:		City:	State:	Zip:
Email:		Phone:		
Type of Entity:	<input type="checkbox"/> Government	<input type="checkbox"/> Corporation	<input type="checkbox"/> Other:	
State of Incorporation or Registration:		Alaska Business License Number:		
IRS Tax ID Number:				
Facility Owner:		Contact Name:		
Address:		City:	State:	Zip:
Email:		Phone:		
Facility Operator:		Contact Name:		
Address:		City:	State:	Zip:
Email:		Phone:		
Agent/Consultant:		Contact Name:		
Address:		City:	State:	Zip:
Email:		Phone:		

Section 3. Fees

A check or money order for the first annual fee for a Class Y Non-Municipal Landfill (listed in 18 AAC 60.700(a) Table E-2) must be submitted with the permit application. If not included, the application will be returned to the applicant.

- | | |
|----|---|
| 1. | Submit payment for the first year’s annual fee with the initial application for a site. No fee is required for permit renewal applications. |
| 2. | You will be billed separately for time spent reviewing waiver requests. |

This application is for:	<input type="checkbox"/> An Existing Facility	<input type="checkbox"/> A New Facility
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Section 4. Cover Letter and Certifications [18 AAC 60.210(a); 18 AAC 60.210(b)(1); 18 AAC 60.210(b)(2)]

Submit a cover letter with the following information and signature.

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|----|---|
| 1. | A statement indicating you wish to obtain a permit for an animal carcass landfill. |
| 2. | A brief general description of the site topography, geology, climate, surface hydrology and groundwater hydrology. |
| 3. | A statement that you are aware of all applicable local ordinances and zoning requirements, and a list of any other required permits or authorizations. |
| 4. | The applicant must submit a signed copy of the application cover letter. |
| 5. | The applicant must submit a signed copy of the following statement, which may be added exactly as shown in the box below to the cover letter. As an alternative, the applicant may sign this sheet and submit it as an attachment to the cover letter. |

I certify under penalty of perjury, that all of the information and exhibits in this cover letter and application are true, accurate, and complete.

Printed Name:	Title:
Signature:	Date:

All applications must be signed as follows per 18 AAC 15.030:

- **Corporations:** A principal executive officer, an officer that is no lower than the level of vice president, or a duly authorized representative who is responsible for the overall management of the project or operation.
- **Municipal, state, federal, or other public entity:** A principal executive officer, ranking elected official, or duly authorized employee.
- **Partnerships:** A general partner.
- **Sole proprietorship:** The proprietor.

Section 5. Waste Handling and Processing Information

[18 AAC 60.210(b)(2); 18 AAC 60.210(b)(3)(B); 18 AAC 60.210(b)(4)]

1.	Estimate the total volume of reindeer carcasses you expect to dispose each year:	
Year	# Reindeer Slaughtered	Solid Waste Volume [Cubic yards]
20__		
20__		
20__		
20__		
20__		
2.	Vector Attraction/Pathogen Reduction:	

Section 6. Location Information

Please identify the PDF page that demonstrates the requested item.

Identify PDF Page

1.	Property Ownership and Location Information [18 AAC 60.210(b)(3)(A); 18 AAC 60.210(b)(7)]	
	a. Attach a copy of the deed or another legal document that identifies the landowner.	
	b. If the applicant is not the landowner, attach a written and notarized statement signed by the landowner showing that the landowner consents to the landfill, and agrees to the placement of a notation on the deed, or a copy of any lease agreement that clearly states the same.	
2.	Surface Water Information [18 AAC 60.210(b)(3); 18 AAC 60.225; 18 AAC 60.410]	
	a. Discuss the potential for surface water run-on into the landfill:	
	b. Discuss the potential for sediment carried by runoff from the landfill to impact surface water:	
	c. If the landfill is located in a floodplain, attach documentation to demonstrate the landfill will not restrict the flow of the flood, reduce the temporary storage capacity of the floodplain, and is designed to protect against washout of the solid waste.	
3.	Groundwater Information [18 AAC 60.217; 18 AAC 60.820(a)(8)]	
	a. Attach information documenting the highest measured level of groundwater under the landfill area. The base of any new unlined cells or lateral expansions may not be located closer than 10 feet above groundwater unless constructed two feet or more above ground surface.	
	b. Annual precipitation: _____ inches	
	c. Source used to determine annual precipitation:	
4.	Permafrost Information [18 AAC 60.210(b)(3)(B); 18 AAC 60.227]	
	a. If the landfill is located on permafrost, explain why there is no practical alternative to the site chosen. Provide a design drawing that demonstrates that the required 2ft (or deeper) pad is included in the design.	
	b. If the landfill is located in an area of discontinuous permafrost, provide a map of the permafrost in part 5. of this section, and include a summary of what is known about the permafrost (e.g. total depth, depth of active zone, areal extent, temperature, etc.).	

Section 6. Location Information (Continued)		Identify PDF Page
5.	Maps - Attach maps and/or aerial photographs as needed to show the following. You may submit maps that show multiple required items. For example, one map can show property boundaries, nearest airport, and surface water locations, etc. [18 AAC 60.040; 18 AAC 60.210(b)(3); 18 AAC 60.410]	
	a. Location of the landfill property boundaries.	
	b. Location of surface water bodies and streams within 200 feet of the landfill property boundaries.	
	c. Location of the known or inferred boundaries of permafrost or discontinuous permafrost within 500 feet of the landfill property boundaries.	
	d. Location of all drinking water wells within a half mile. There should be no wells within 500 feet of the landfill property boundaries. <i>NOTE: you will need to request a waiver from 18 AAC 60.040</i>	
	e. Location of the boundary of any 100-year floodplain in the area.	
	f. Location of any documented earthquake faults or unstable areas within 200 feet of the landfill property boundary.	

Section 7. Facility Design

A complete set of design drawings must be submitted with the information below, with drawings included for both the design and closure of the landfill, as appropriate.

Note: all design documents must be stamped and sealed by a registered engineer. [18 AAC 60.210(c)]

Landfill Design Drawings [18 AAC 60.410]		Identify PDF Page
1.	Site map(s) which show site conditions including: [18 AAC 60.210(b)(3)(B); 18 AAC 60.210(b)(3)(C); 18 AAC 60.220; 18 AAC 60.233; 18 AAC 60.470(c); 18 AAC 60.470(g)]	
	a. All planned disposal areas. The map should demonstrate all waste will be at least 50 feet from the landfill property boundaries.	
	b. Fences, gates, berms and other access control devices around the facility.	
	c. Access roads to and within the facility.	
2.	Plan view drawings with contour lines and cross section drawings that show: [18 AAC 60.210(b)(3); 18 AAC 60.210(b)(4); 18 AAC 60.410(b)(2); 18 AAC 60.410(c); 18 AAC 60.470(e)]	
	a. Any planned excavations before waste cell construction.	
	b. All roads, ditches, trenches, and berms associated with the landfill.	
3.	Construction detail drawings and cross sections including storm water drainage structures, culverts and other surface water control devices. [18 AAC 60.210(b)(3); 18 AAC 60.225; 18 AAC 60.410(b)(2); 18 AAC 60.410(c); 18 AAC 60.470(e)]	
	a. Storm water drainage structures, culverts, and other surface water control devices.	

Section 7. Facility Design (Continued)		Identify PDF Page
4.	Design calculations, data and documentation must include the following and supporting calculations. [18 AAC 60.210(b)(3); 18 AAC 60.210(b)(4); 18 AAC 60.210(c); 18 AAC 60.227(b); 18 AAC 60.410(c)]	
	a. Calculations for the annual volume of expected waste and how the size of each annual cell will be determined.	
	b. Calculations for the amount of lime and cover material that must be stockpiled each year prior to beginning operations.	
	c. Information and calculations of the wastes that will be disposed over the usable life of the facility and the maximum design capacity of the facility.	
	d. Information and calculations showing how the facility will be protected from any reasonably anticipated natural event such as aufeis, floods, earthquakes, thawing of unstable permafrost, and the effects of freezing and thawing.	
Landfill Closure Drawings [18 AAC 60.210(b)(3)(E); 18 AAC 60.470(n); 18 AAC 60.470(o)]		
5.	Conceptual drawings of the facility after closure is completed – each cell should be closed individually at the end of the operating season.	

Section 8. Operations Plan

The operations plan should be a separate document that provides sufficient detail and information to guide a landfill operator in performing all necessary tasks for day-to-day operation of the landfill.

The operations plan is a flexible document that should be reviewed annually and updated as necessary. The following table represents the minimum requirements which must be included. Additional information should be included, as needed to ensure the facility operates in compliance with the State Solid Waste Regulations.

		Identify PDF Page
1.	Access control [18 AAC 60.210(b)(3)(C); 18 AAC 60.220]	
	a. Access to the facility will be controlled using gates, fences, berms, or other means of preventing access; hours of operation; signage; and other control measures.	
	b. Prohibited activities, such as target practice or off road vehicle use will be prevented.	
	c. Access and onsite roads will be kept passable and safe for vehicles year round.	
2.	Waste acceptance and handling policy [18 AAC 60.210(b)(3)(C); 18 AAC 60.240(a); 18 AAC 60.240(b); 18 AAC 60.420(b); 18 AAC 60.470(b); 18AAC 60.470(i)]	
	a. Waste screening procedures to ensure no wastes other than reindeer carcasses are disposed in the facility.	
	b. Required signage placed at the facility entrance.	
	c. Waste processing procedures prior to disposal, including pathogen reduction, vector attraction reduction, and dewatering.	
3.	Waste placement plan [18 AAC 60.210(b)(3)(B); 18 AAC 60.210(b)(3)(C); 18 AAC 60.225(a); 18 AAC 60.470(h)]	
	a. Waste placement methods (specific details defining the process).	
	b. The planned progression of the working face, including landfill development over the life of the facility (diagrams are acceptable).	
	c. How unstable slopes will be avoided.	

Section 8. Operations Plan (Continued)

Identify PDF Page

4.	Pathogen/Vector Attraction reduction [18 AAC60.010(e)]	
	a. How the lime requirements for the year will be determined.	
	b. Lime must be ordered sufficiently in advance of the season.	
	c. Where and how lime will be stockpiled.	
	d. How the amount of lime to add to each carcass or group of carcasses disposed in the cell will be calculated.	
	e. Procedures for covering the carcass(es) with lime.	
	f. Requirement that pH be tested and recorded at least twice daily, prior to cover being applied.	
5.	Cover plan [18 AAC 60.210(b)(3)]	
	a. The type of cover material(s) that will be used.	
	b. Where the cover material will be obtained and stored.	
	c. The depth of cover that will be applied.	
	d. Cover will be applied at the end of each working day, at a minimum.	
6.	Litter, vector and nuisance control plan [18 AAC 60.210(b)(3)(C); 18 AAC 60.210(b)(3)(D); 18 AAC 60.230(a); 18 AAC 60.233(2); 18 AAC 60.420(a); AS 46.06.080]	
	a. Procedures to ensure wildlife and domestic animals do not endanger the public or landfill staff, are not harmed by contact with the waste, and do not become a nuisance.	
	b. Procedures to control dust, odor, noise, traffic, litter, disease vectors and other effects from facility operations so they do not become a nuisance or hazard outside of the landfill property boundaries.	
7.	Corrective action plan (procedures for immediate action) [18 AAC 60.210(b)(3)(C); 18 AAC 60.210(b)(3)(D); 18 AAC 60.815(a)]	
	a. Cleaning up any improper or unauthorized waste disposal	
	b. Repairing any damage to the facility or structures	
	c. Addressing any violations of regulations or permit conditions.	
8.	Operating record [18 AAC 60.235; 18 AAC 60.470(k)]	
	The operating record must contain all documentation listed in 18 AAC 60.235 and be retained in a location readily accessible to facility employees and ADEC. Identify the location where the landfill record will be maintained.	

Section 9. Monitoring Plan

The monitoring plan must include sufficient detail to allow all monitoring to be completed in full compliance with the applicable regulations and permit conditions. Identify PDF Page

1.	Visual monitoring plan [18 AAC 60.210(b)(3)(D); 18 AAC 60.800(a)]	
	a. Description of the procedures for visual monitoring of the landfill.	
	b. Checklist or visual monitoring form including all applicable items in 18 AAC 60.800(a) and any additional items appropriate for the facility.	
2.	Waste Monitoring [18 AAC 60.010(e)]	
	a. Detailed description of the process for testing waste for pH.	
	b. Corrective actions if pH has not reached 12.	
	c. Copy of the form for recording each pH test.	

Section 10. Closure Plan and Cost Estimate

It is understood that the closure plan submitted with the permit application will be conceptual and may change throughout the active life of the facility. A detailed closure plan for the landfill must be submitted and approved by DEC at least 180 days before closure. The closure plan **must include** the following information.

1.	Description of the closure process for each annual cell [18 AAC 60.210(b)(3)(E); 18 AAC 60.210(b)(6); 18 AAC 60.245; 18 AAC 60.490]	
	a. A description of the final cover and appearance of each cell.	
	b. A description of the methods and procedures for final cover installation.	
	c. A timeline or schedule for all activities needed to complete closure.	
	d. A statement that closure report will be submitted to ADEC within 60 days after each cell is closed that includes: <ul style="list-style-type: none">• Photos of the cell in operation• Photos of the closed cell• Copies of monthly inspection reports• Copies of pH testing reports• Total number of carcasses and volume disposed• Discussion of any problems encountered at the landfill and the implemented solutions.	
2.	Information on the final closure of the landfill, when all available cells have been used [18 AAC 60.210(b)(3)(E); 18 AAC 60.210(b)(6); 18 AAC 60.245; 18 AAC 60.490]	
	a. A discussion of how the public access to the landfill will be restricted for at least 3 years after the facility closes.	
	b. Agreement that a notation that meets the requirements of 18 AAC 60.490(a) will be recorded to the property deed.	
	c. A description and map of proposed or existing survey monuments or permanent markers.	
	d. A description of the anticipated post closure (future) use of the property.	

Section 10. Closure Plan and Cost Estimate (Continued)

3. **Financial information** [18 AAC 60.210(b)(5); 18 AAC 60.210(b)(3)(F); 18 AAC 60.265]

A **Landfill Closure/Post-Closure Cost Estimate Worksheet (Courtesy: State of VA)** in Excel is available online at <https://www.deq.virginia.gov/home/showpublisheddocument/2525> to assist you in calculating costs. Please note that you need to complete both tabs (CEW-01 and CEW-02), but only sections relevant to your facility.

	a. The total present-day equivalent cost estimate for an independent contractor (do not assume onsite use of any material or machinery) to close each annual cell. A quote from a consultant or calculation showing all relevant operations for closure is required.	
	b. The total present-day equivalent cost estimate for an independent contractor to perform post-closure care of the facility.	
	c. Demonstration of the mechanism of financial responsibility to cover the cost of closing the landfill and post-closure care. Proof of financial responsibility may be demonstrated by self-insurance, insurance, or other guarantee approved by DEC.	

Section 11. Waiver Requests and Justification

18 AAC 60.900 allows DEC to grant an exemption from any regulation not required by federal law. The review of waiver requests will be billed at the rate in 18 AAC 60.700(g)(1)(A)

Waiver requests must include [18 AAC 60.210(b)(1)(D)]

Each regulation for which you are requesting a waiver, and for each requested waiver, a detailed justification that meets the criteria of 18 AAC 60.900 by demonstrating that:

- Compliance with the identified provision would cost significantly more than the value of the environmental benefit, public health risk reduction, and nuisance avoidance that could be achieved through compliance with the identified provision; or
- The proposed alternative action will provide equal or better environmental protection, reduction in public health risk, and control of nuisance factors than compliance with the identified provision.

Additional information

Attach any additional information necessary to accurately reflect the location, construction, and operations of the landfill.