

# **U.P. Solid Waste Operator Training**

## **Alternate Daily Cover**

September 11, 2014

# Daily Cover Requirements

- Required at all Municipal Solid Waste Landfills and Construction & Demolition Waste Landfills as specified in Rule 429 of Part 115
- Daily Cover is defined as 6 inches of earthen material to be placed at the end of each operating day or more frequently, if necessary
- C & D landfills may request a variance from the requirement
- Landfills may request approval for the use of alternate daily cover

# Alternate Daily Cover

Rule 429(2) States:

Alternate material of an alternate thickness may be used as daily cover if approved in an operating license

Owner/Operator must demonstrate that the alternate material will control disease vectors, fires, odors, blowing litter, and scavenging without presenting a threat to human health or the environment

Owner/Operator Must submit an operational plan for the use of the material

# Three Classes of Alternate Daily Cover

Class a: manufactured products such as geotextiles, liners, tarps or spray on-materials

Class b: the following waste materials, if 95% of the material is retained on a no. 200 sieve: chipped tires, wood chips, coal or wood ash, ground shingles, alum sludge, foundry sand, dredge spoils, and paper mill sludge

Class c: contaminated soil from leaking underground storage tanks containing petroleum products, auto fluff, class b materials with more than 5% fines, and other materials approved by the director

# Class C Alternate Daily Cover

All class c materials must demonstrate they meet criteria established by the director for alternate daily cover – therefore annual testing of waste material is required

The criteria are published in Policy and Procedure 115-10

	<p align="center"><b>OFFICE OF WASTE MANAGEMENT AND RADIOLOGICAL PROTECTION POLICY AND PROCEDURE</b></p>		<p align="center">DEPARTMENT OF ENVIRONMENTAL QUALITY</p>
<p><b>Original Effective Date:</b> May 27, 1993</p> <p><b>Revised Date:</b> March 4, 2009</p> <p><b>Reformatted Date:</b> April 30, 2013</p>	<p><b>Subject:</b> Sanitary Landfill Alternate Daily Cover Approval Requirements and Procedures</p>	<p><b>Division/Office and Program Names:</b> Solid Waste Section, Solid Waste Program</p>	<p><b>Category:</b></p> <p><input type="checkbox"/> Internal/Administrative</p> <p><input type="checkbox"/> External/Non-Interpretive</p> <p><input checked="" type="checkbox"/> External/Interpretive</p>
	<p><b>Number:</b> OWMRP-115-10</p>	<p><b>Page:</b> 1 of 4</p>	

# Class C Alternate Daily Cover Criteria

- Standards were established in 1993
- Were intended to be protective of human health at the property line of the landfill
- Pathways considered were inhalation and direct contact
- Assumptions used in establishing criteria:
  - 1 acre of cover exposed
  - 100 feet to fence line
  - 70-year exposure
  - All chromium is hexavalent
  - Risk level of 1:1,000,000
  - No additional measures for fugitive dust control required

# Alternate Daily Cover at UP Landfills

Class a: Geosynthetic liner – 2 sites

Geotextiles (woven & non-woven) – 4 sites

Spray-on materials – 1 site

Class b: Petroleum contaminated soil from UST – 4 sites

Coal or wood ash – 3 sites

Foundry sand – 1 site

Paper mill sludge – 2 sites

Dredge spoils – 1 site

Chipped tires or tire/soil mix – 2 sites

# Alternate Daily Cover at UP Landfills

Class c : auto shredder fluff/soil mix – 1 site  
biofuel fly ash – 1 site  
screened compost waste – 1 site

# Questions?

Contact information:

Margie Ring

Michigan Department of Environmental Quality

Phone: 517-284-6592

E-mail: [Ringm@Michigan.gov](mailto:Ringm@Michigan.gov)