

PERMIT MODULE XII

CLOSURE

XII.A. CLOSURE PLAN MODIFICATION

XII.A.1. The closure plan shall be amended any time changes in operating plans or landfill design affect the closure plan.

XII.A.2. Amended closure plans shall be submitted to the department at least 180 days before the date the facility expects to begin construction activities related to closure.

XII.B. TIME ALLOWED FOR CLOSURE

The facility shall close each unit and install a final cover system in accordance with the timeframes specified the closure plan. Closure activities shall begin no later than 24 months after the date on which the facility (or disposal unit) receives the final load of waste. The closure construction shall be completed no later than 18 months after closure commencement.

XII.C. FINAL COVER SYSTEM

The landfill final cover design profile from top to bottom is as follows (slopes flatter than 3:1):

- 6-inch erosion control layer consisting of seeded top soil, native soil or soil suitably amended to support vegetation;
- 18-inch infiltration layer comprised of local soil compacted to an unspecified permeability;
- A geocomposite drainage net with sufficient transmissivity to allow adequate drainage;
- A synthetic flexible membrane cover of linear low density polyethylene (30-mil LLDPE) or other suitable geomembrane material that will serve as an infiltration barrier;
- 18-inch infiltration layer comprised of local soil compacted to a maximum permeability of 1×10^{-5} cm/sec; and
- 12 inches of local soil placed as an intermediate cover during filling operations

The landfill final cover design profile from top to bottom is as follows (slopes equal to 3:1):

- 6-inch erosion control layer consisting of seeded top soil, native soil or soil suitably amended to support vegetation;
- 6-inch soil layer compacted to a maximum permeability of 1×10^{-3} cm/sec
- A geocomposite drainage net with sufficient transmissivity to allow adequate drainage;

- 18-inch infiltration layer comprised of local soil compacted to a maximum permeability of 1×10^{-7} cm/sec; and,
- 12 inches of local soil placed as an intermediate cover during filling operations.

XII.D. CLOSURE CERTIFICATION

- XII.D.1. Following construction of the final cover system for each unit, certification, signed by a registered professional engineer, shall be submitted verifying that closure has been completed in accordance with the permit, approved plans, and specifications. A certification will be required for each capped landfill phase and shall include the results of the CQA/QC requirements under 9 VAC 20-81-130.Q.1.b.(6).
- XII.D.2. Following the closure of all units, certification, signed by a registered professional engineer, shall be submitted verifying that closure has been completed in accordance with the requirements of 9 VAC 20-81-160.D.5.a. through 5.c., which require posting a sign at the facility entrance and erecting suitable barriers to prevent access; submitting a survey plat to the local land reporting authority; and recording a notation on the deed to the facility property.