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3745-512-411

Leachate collection system granular drainage layer.

[Comment: For dates of non-regulatory government publications, publications of recognized organizations and associations, test methods, federal rules, and federal statutory provisions referenced in this rule, see rule 3745-500-03 of the Administrative Code titled "Incorporation by reference."]

(A) The leachate collection system granular drainage layer shall meet the criteria in paragraphs (A)(1) to (A)(3) of this rule. In lieu of sand or gravel, an alternative material may be used by the owner or operator, including solid waste or C&DD, if the alternative material is approved in accordance with rule 3745-512-17 of the Administrative Code:

- (1) Be free of foreign material and deleterious material.
- (2) Have not more than five per cent of the particles by weight passing through the number two hundred standard sieve.
- (3) Have not more than five per cent carbonate content by weight using ASTM D3042 at a pH of 4.0.

(B) For a leachate collection system granular drainage layer placed against a liner system flexible membrane liner and where the granular drainage layer is not comprised of a material with a sand classification as described in ASTM D2487 (USCS), the owner or operator shall do the following:

- (1) Place a liner cushion layer between the flexible membrane liner and the granular drainage layer.
- (2) Use a liner cushion layer consisting of one of the following:
 - (a) A geotextile with a minimum average roll value for weight of sixteen ounces per square yard and puncture resistance of at least three hundred ten pounds as determined by ASTM D4833 (index puncture resistance).
 - (b) For a granular drainage layer comprised of rounded or sub-rounded gravel with no dimension greater than one inch in length, a geotextile with a minimum average roll value for weight of eight ounces per square yard.
 - (c) An alternative material that is approved in accordance with rule 3745-512-17 of the Administrative Code.
- (3) Overlap and sew the liner cushion layer to prevent exposure of the flexible membrane liner.

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(C) Testing of the material used for the leachate collection system granular drainage layer and the liner cushion layer, if used, shall be performed by the owner or operator in conformance with the following:

- (1) Pre-construction testing on representative samples to determine shear strength in accordance with rule 3745-512-10 of the Administrative Code.
- (2) Pre-construction testing on representative samples in accordance with rule 3745-512-15 of the Administrative Code

(D) Certification of the leachate collection system granular drainage layer by the owner or operator shall include the following:

- (1) Record drawings showing the location, including the run-out, and plan views with topographic representation of the basal and final elevations of the granular drainage layer, as constructed.
- (2) The table of survey information described in rule 3745-512-50 of the Administrative Code and a comparison of the survey data to the elevations in the authorizing document.
- (3) Results of all testing and verification that the granular drainage layer, including the cushion layer if applicable, meets the standards in paragraphs (A) and (B) of this rule and the specifications in the authorizing document. If an alternative material is used, the evaluation conducted pursuant to rule 3745-512-17 of the Administrative Code was submitted prior to use of the alternative material and therefore verification is not required to be submitted with the construction certification report under this rule. However, results of all testing to verify that the alternative material meets the material's specifications are required in the construction certification report.
- (4) Measures taken by the owner or operator to prevent clogging of the granular drainage layer in the run-out.