

\*\*\* DRAFT – NOT FOR FILING \*\*\*

3745-520-240

Leachate management system design.

[Comment: When initially designing and constructing a leachate management system, a conservative approach may be necessary to account for further settlement of the underlying materials caused by any potential vertical expansion above the initial design.]

(A) The leachate management system design required by this rule applies to the following:

- (1) Areas that on the date that the permit to install is issued do not contain material that has been disposed in accordance with authorizing documents issued pursuant to Chapter 3714. of the Revised Code and rules adopted thereunder.
- (2) Areas where a vertical expansion is proposed, whether or not the areas contain disposed material.

(B) The leachate management system shall consist of the following:

(1) A leachate collection system that shall consist of the following:

(a) A leachate collection system drainage layer that conforms to rule 3745-511-410 of the Administrative Code, except for the following:

(i) Shredded tires shall not be used.

(ii) Paragraph (D) of rule 3745-511-410 of the Administrative Code does not apply to the basal elevation of the leachate collection system underlying a proposed vertical expansion if the following are true

(a) On or before December thirty-first of the year that this rule became effective, material has been disposed in accordance with authorizing documents issued pursuant to Chapter 3714. of the Revised Code and rules adopted thereunder.

(b) Positive drainage is maintained in the leachate collection system drainage layer to the sumps as demonstrated by the applicant in conformance with rule 3745-511-60 of the Administrative Code for a leachate management system associated with a liner system or with rule 3745-511-65 of the Administrative Code for a leachate management system associated with a separatory leachate barrier and collection system.

(c) Maintain not more than one foot of head of leachate above the basal elevations of the leachate collection system drainage layer.

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- (b) A filter layer that conforms to rule 3745-511-440 of the Administrative Code.
- (c) Sumps that conform to rule 3745-511-434 of the Administrative Code.
- (d) If leachate in the leachate collection system does not drain to conveyance pipes by gravity, pumps that conform to rule 3745-511-436 of the Administrative Code.
- (2) Conveyance pipes that conform to rule 3745-511-450 of the Administrative Code.
- (3) Leachate holding tanks that conform to rule 3745-511-460 of the Administrative Code, leachate treatment works, or a discharge connection to a public sewerage system.
- (C) The leachate collection system drainage layer shall be placed above the liner system.
- (D) The leachate management system shall be designed so that the depth of leachate above the basal elevations of the leachate collection system drainage layer will not exceed one foot, except in sumps.
- (E) Each sump shall provide access to collect a representative sample of leachate.