

**\*\*\* DRAFT – NOT FOR FILING \*\*\***

3745-520-250

Separatory leachate barrier and collection system design.

(A) The separatory leachate barrier and collection system shall include the following systems of engineered components:

- (1) A gas management system that conforms to rule 3745-520-275 of the Administrative Code to remove gas from under the liner system.
- (2) A liner system that consists of a flexible membrane liner that conforms to rule 3745-511-310 of the Administrative Code overlying not less than 1.0 feet of structural fill that conforms to rule 3745-511-220 of the Administrative Code.
- (3) A leachate management system above the liner system that conforms to rule 3745-520-240 of the Administrative Code, except that the leachate collection pipes shall have a slope conforming to one of the following:
  - (a) Rule 3745-520-240 of the Administrative Code, in which case it is necessary for the applicant to conduct a settlement analysis in accordance with rule 3745-511-65 of the Administrative Code.
  - (b) Be not less than 10.0 per cent in which case it is not necessary for the applicant to conduct a settlement analysis in accordance with rule 3745-511-65 of the Administrative Code.

(B) The separatory leachate barrier and collection system shall be designed to conform to the following:

- (1) Function as designed from the time the engineered components are constructed until the end of the post-closure care period.
- (2) Serve as a barrier to prevent leachate generated from material disposed above the separatory leachate barrier and collection system from entering into disposed material that is below the separatory leachate barrier and collection system.
- (3) Manage all gas generated from the disposed material that is below the barrier in a manner that will not violate Chapter 3704. of the Revised Code and will prevent damage to the other engineered components of the separatory leachate barrier and collection system.
- (4) The stability standards in rules 3745-511-40 and 3745-511-50 of the Administrative Code.
- (5) For a vertical expansion over disposed waste or C&DD that is above a separatory leachate barrier and collection system that was constructed on or before December thirty-first of the year that this rule became effective, the slope of the

**\*\*\* DRAFT – NOT FOR FILING \*\*\***

existing separatory leachate barrier and collection system located beneath the vertical expansion will conform to the following conditions:

- (a) Positive drainage in the leachate collection system drainage layer to the sumps.
- (b) No more than one foot of head of leachate above the basal elevations of the leachate collection system drainage layer of the separatory leachate barrier and collection system.
- (6) The surface of the structural fill shall have no abrupt changes in grade that may result in damage to overlying engineered components.
- (7) Have a slope that does not exceed compaction equipment limitations.
- (8) Minimize the amount of C&DD disposed beneath the separatory leachate barrier and collection system to obtain the required minimum slope.
- (C) The run-out of the separatory leachate barrier and collection system shall extend beyond the phase limits by five feet.