

***** DRAFT – NOT FOR FILING *****

3745-511-65 Settlement analysis and reporting for the separatory leachate barrier and collection system.

(A) The settlement analysis shall demonstrate that the design requirements for the separatory leachate barrier and collection system will be met after accounting for the following:

(1) The total mass of materials above the separatory leachate barrier and collection system.

(2) One hundred per cent of the initial consolidation settlement, primary consolidation settlement, and the secondary consolidation settlement of the compressible materials beneath the surface of the separatory leachate barrier and collection system. Secondary settlement shall be calculated using a one hundred-year time frame.

(B) The geotechnical and stability analyses of the separatory leachate barrier and collection system shall not rely on any of the tensile qualities of any of the geosynthetic engineered components included in the design other than those engineered components used primarily for tensile reinforcement.

(C) The geotechnical and stability analyses report identified in rule 3745-511-10 of the Administrative Code shall include a section titled "Settlement Analysis of the Separatory Leachate Barrier and Collection System" which shall include the following information:

(1) The scope, extent, and findings of the site investigation and earthen materials testing program bearing on the settlement analysis.

(2) A description of the rationale used for the selection of the settlement analysis input parameters.

(3) A description of the method used to calculate settlement.

(4) A description of the assessed settlement modes and conditions.

(5) A drawing of each critical cross section that fully depicts the analysis input model including the following:

(a) The liner system.

(b) The leachate management system.

(c) The material boundaries.

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(d) The material characteristics.

(e) The material types.

(f) The in situ unit weights and saturated unit weights of the materials.

(6) A plan view showing the location of each critical cross section including northings and eastings for the endpoints of each critical cross sections.

(7) A summary of the results.

(8) All inputs, outputs, and calculations used for the settlement analysis. If a computer was used for any calculations, the computer inputs and outputs shall also be included.