

Kansas Administrative Regulations

Department of Health and Environment

Article 29.—Solid Waste Management

28-29-1603. Land-spreading; sampling and analysis of soils.

Each operator that submits an application to the KCC shall meet all of the following requirements:

(a) Sample collection for chloride analysis. For each cell, as identified on the cell identification map submitted with the application, at least four representative core samples shall be collected according to the following requirements:

- (1) Each core shall sample the top 12 inches below the surface.
- (2) For each cell, all samples from that cell shall be combined and thoroughly mixed.
- (3) The combined samples from each cell shall have a volume of at least one pint.
- (4) The label of each sample shall match the unique label of the cell from which the sample was collected, as indicated on the cell identification map submitted with the application.

(b) Chloride analysis. The soil shall be analyzed for chloride concentration by a laboratory that meets one or both of the following conditions:

- (1) The laboratory is accredited for chloride analysis by the secretary.
- (2) The laboratory is a participant in the North American proficiency testing program for chloride analysis.

(c) Sample collection for soil texture analysis. For each cell, as identified on the cell identification map submitted with the application, core samples from at least four representative sampling locations shall be collected according to the following requirements:

- (1) Each core or set of cores shall sample at least the top 24 inches below the surface.
- (2) Each sampling location shall be continuously sampled from the ground surface to the total depth required to provide the information for the application.

(3) Each core or set of cores shall provide a minimally disturbed profile of the soil at that sampling location.

(4) Soil samples shall not be combined with samples from other locations.

(5) Each core shall be labeled in a manner that corresponds to the unique label of the cell from which the core was collected, as indicated on the cell identification map submitted with the application.

(d) Soil texture analysis. The soil texture shall be determined by one of the following:

(1) An agronomist with at least a bachelor of science degree in agronomy or a soil scientist with at least a bachelor of science degree in soil science. The agronomist or soil scientist shall perform the following:

(A) Evaluate the site in person;

(B) determine the soil texture using the feel method described in "soil survey field and laboratory methods manual," which is adopted by reference in K.A.R. 28-29-1600; and

(C) provide documentation characterizing the site; or

(2) a laboratory, according to one or both of the following requirements:

(A) The laboratory shall analyze the soil using methods described in section 3.2 of the "soil survey field and laboratory methods manual," as adopted by reference in K.A.R. 28-29-1600, and shall be a participant in the North American proficiency testing program for those methods; or

(B) the laboratory shall analyze the soil using the method described in "standard test method for particle-size analysis of soils," as adopted by reference in K.A.R. 28-29-1600, and shall be accredited by the American association of state highway and transportation officials (AASHTO) materials reference laboratory (AMRL) proficiency sample program for that method.

(e) Soil texture classification. Each soil sample shall be classified by texture class or subclass according to the texture class table and the texture triangle on page 45 of the "soil survey field and laboratory methods manual," as adopted by reference in K.A.R. 28-29-1600.

(Authorized by and implementing K.S.A. 2012 Supp. 65-3407c; effective Oct. 11, 2013.)

***** Authenticated Kansas Administrative Regulation *****