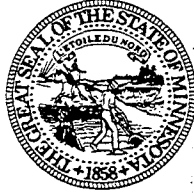


Office of the Revisor of Statutes

Administrative Rules



RULE APPROVED
OFFICE OF ADMINISTRATIVE HEARINGS

4/14/97
DATE
[Signature]
ADMINISTRATIVE LAW JUDGE.

TITLE: Adopted Permanent Rules Relating to Sewage Sludge

AGENCY: Pollution Control Agency

MINNESOTA RULES: Chapters 7001, 7002, 7035, 7040, 7041, and 7077

INCORPORATIONS BY REFERENCE:

Part 7041.3200: Analytical Procedures for Determining Organic Priority Pollutants in Municipal Sludge, issued by the United States Environmental Protection Agency as EPA 600/2-80-030 (1980), also available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 (PB 80-198401), 1-800-553-6847. Method Development for Determination of Polychlorinated Hydrocarbons in Municipal Sludge, issued by the United States Environmental Protection Agency as EPA 600/2-80-029 (1980), also available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 (PB 80-200793), 1-800-553-6847. Enteric Viruses, ASTM Designation: D 4994-89, "Standard Practice for Recovery of Viruses From Wastewater Sludges," 1992 Annual Book of ASTM Standards: Section 11 -- Water and Environmental Technology, ASTM, 1916 Race Street, Philadelphia, Pennsylvania 19103-1187. Fecal Coliform, Part 9221E or Part 9222D, "Standard Methods for the Examination of Water and Wastewater," 18th Edition, 1992, American Public Health Association, 1015 15th Street NW, Washington, DC 20005. Helminth Ova, Yanko, W.S., "Occurrence of Pathogens in Distribution and Marketing Municipal Sludges," EPA 600/1-87-014, 1987, National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 (PB 88-154273/AS). Inorganic pollutants, "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, Second Edition (1982) with Updates I (April 1984) and II (April 1985) and Third Edition (November 1986) with Revision I (December 1987). Second Edition and Updates I and II are available from the National Technical Information Service, 5285 Port Royal Road, Springfield, Virginia 22161 (PB 87-120-291). Third Edition and Revision I are available from



Superintendent of Documents, Government Printing Office, 941 North Capitol Street NE, Washington, DC 20002 (Document Number 955-001-00000-1). Salmonella sp. bacteria, Part 9260D, "Standard Methods for the Examination of Water and Wastewater," 18th Edition, 1992, American Public Health Association, 1015 15th Street NW, Washington, DC 20005; Kenner, B.A. and H.P. Clark, "Detection and enumeration of Salmonella and Pseudomonas aeruginosa," Journal of the Water Pollution Control Federation, Vol. 46, No. 9, September 1974, pp. 2163-2171, Water Environment Federation, 601 Wythe Street, Alexandria, Virginia 22314. Specific oxygen uptake rate, Part 2710B, "Standard Methods for the Examination of Water and Wastewater," 18th Edition, 1992, American Public Health Association, 1015 15th Street NW, Washington, DC 20005. Total fixed, volatile solids, Part 2540G, "Standard Methods for the Examination of Water and Wastewater," 18th Edition, 1992, American Public Health Association, 1015 15th Street NW, Washington, DC 20005. Available through the Minitex interlibrary loan system.

Part 7041.3400:

Subpart 1: Recommended Chemical Soil Test Procedures for the North Central Region, issued by the North Dakota Agricultural Experiment Station, North Dakota State University as North Central Regional Publication No. 221 (Revised) October 1988. Methods of Soil Analysis, Chemical and Microbiological Properties edited by Alan Page et al., issued by the American Society of Agronomy as Agronomy Monograph No. 9 (Madison, Wisconsin, Part 2, second edition, 1982). Procedures for Collecting Soil Samples and Methods of Analysis for Soil Survey, issued by the Natural Resources Conservation Service as Soil Survey Investigations Report 1 (revised) (Washington, D.C., United States Government Printing Office, 1984). Available through the Minitex interlibrary loan system.

Subpart 2: Determination by direct measurements in the field as outlined in chapter 29, Hydraulic Conductivity of Saturated Soils: Field Methods, in Methods of Soil Analysis, Physical and Mineralogical Methods, edited by Klute, issued by the American Society of Agronomy, 677 South Segoe Road, Madison, Wisconsin 53711, as Agronomy Monograph No. 9, Part 1, (Madison, Wisconsin, second edition 1986). Determination in the laboratory using undisturbed soil samples as outlined in chapter 28, Hydraulic Conductivity and Diffusivity: Laboratory Methods in Methods of Soil Analysis, edited by Klute, issued by the American Society of Agronomy, 677 South Segoe Road, Madison, Wisconsin 53711, as Agronomy Monograph No. 9, Part 1, (Madison, Wisconsin, second edition 1986). Available through the Minitex interlibrary loan system.

Subpart 3, item A: Determination of the depth of soil having mottles with a chroma of two or less as discussed on pages 15 to 17 of Keys to Soil Taxonomy, Sixth Edition (1994), issued by the Natural Resources Conservation Service (Washington D.C., United States Government Printing Office). Available through the Minitex interlibrary loan system.

The attached rules are approved for
filing with the Secretary of State



Carla M. Riehle
Senior Assistant Revisor