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567—67.10(455B) Sampling and analytical methods.

67.10(1) General. Representative samples of sewage sludge that are applied to the land shall be collected and analyzed. Methods listed below shall be used to analyze samples of sewage sludge and calculation procedures shall be used to calculate the percent of volatile solids reduction for sewage sludge.

- **67.10(2)** Enteric viruses. ASTM D4994-19, "Standard Practice for Recovery of Viruses From Wastewater Sludges," ASTM International, West Conshohocken, PA, 2019, www.astm.org.
- **67.10(3)** Fecal coliform. SM 9221 E-2011 or SM 9222 D-2011, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association, Washington, D.C.; EPA Method 1680: Fecal Coliforms in Sewage Sludge (Biosolids) by Multiple-Tube Fermentation using Lauryl Tryptose Broth (LBT) and EC Medium, EPA-821-R-14-009, September 2014; EPA Method 1681: Fecal Coliforms in Sewage Sludge (Biosolids) by Multiple-Tube Fermentation using A-1 medium, EPA-821-R-06-013, July 2006.
- **67.10(4)** *Helminth ova.* Yanko, W., "Occurrence of Pathogens in Distribution and Marketing Municipal Sludges," U.S. Environmental Protection Agency, Washington, D.C., EPA/600/1-87/014 (NTIS PB88154273), 1988.
 - **67.10(5)** *Inorganic pollutants.*
- Metals. "Test Physical/Chemical Methods for **Evaluating** Solid Waste. SW-846, Methods," **EPA** Publication 3rd Edition, Final Updates V (2015),www.epa.gov/hw-sw846/sw-846-compendium.
- b. Nonmetals. For nonmetals not identified elsewhere in this chapter, methods approved at 40 CFR Part 136, as amended through August 28, 2017.
- **67.10(6)** Salmonella sp. bacteria. SM 9260 B-2011, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association, Washington, D.C.; EPA Method 1682: Salmonella in Sewage Sludge (Biosolids) by Modified Semisolid Rappaport-Vassiliadis (MSRV) Medium, EPA-821-R-06-14, July 2006; or Kenner, B.A. and H.P. Clark, "Detection and Enumeration of Salmonella and Pseudomonas aeruginosa," J. Water Pollution Control Federation, 46(9):2163-2171, 1974.
- **67.10(7)** Specific oxygen uptake rate. SM 2710 B-2011, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association, Washington, D.C.
- **67.10(8)** *Total, fixed, and volatile solids.* SM 2540 G-2011, "Standard Methods for the Examination of Water and Wastewater," American Public Health Association, Washington, D.C.
- **67.10(9)** Percent volatile solids reduction calculation. "Environmental Regulations and Technology Control of Pathogens and Vectors in Sewage Sludge," EPA-625/R-92/013, July 2003. [ARC 6192C, IAB 2/9/22, effective 3/16/22]