

Environmental Protection Agency

§ 444.13

(2) The full texts of the methods from the following references which are cited in the table in paragraph (b)(1) of this section are incorporated by reference into this regulation and may be obtained from the sources identified. All costs cited are subject to change and must be verified from the indicated sources. The full texts of all the test procedures cited are available for inspection at the Analytical Methods Staff, Office of Water, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, DC 20460 or at the Office of the Federal Register, 800 North Capital Street, NW., Suite 700, Washington DC.

Appendix to § 444.12(b)—References, Sources, Costs, and Table Citations:

(1) "Methods for Chemical Analysis of Water and Wastes," U.S. Environmental Protection Agency, EPA-600/4-79-020, Revised March 1983 and 1979 where applicable. Available from: ORD Publications, CERL, U.S. Environmental Protection Agency, Cincinnati, Ohio 45268. [Note 1]

(2) "Standard Methods for the Examination of Water and Wastewater." Joint Editorial Board, American Public Health Association, American Water Works Association, and Water Environment Federation, 18th Edition, 1992. Available from: American Public Health Association, 1015 15th Street NW, Washington, DC 20005. [Note 6]

(3) "Annual Book of ASTM Standards—Water and Environmental Technology," Section 11, Volumes 11.01 (Water I) and 11.02 (Water II), 1994. [1996 for D5673-96; see Note 17]. American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103.

(4) "Methods for the Determination of Metals in Environmental Samples—Supplement I", National Exposure Risk Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, Cincinnati, OH 45268, EPA 600 R-94/111, May 1994. [Notes 5 and 7]

(5) "Methods for Determination of Inorganic Substances in Water and Fluvial Sediments," by M.J. Fishman and Linda C. Friedman, Techniques of Water Resources Investigations of the U.S. Geological Survey, Book 5 Chapter A1 (1989). Available from: U.S. Geological Survey, Denver Federal Center, Box

25425, Denver, CO 80225. Cost: \$108.75 (subject to change). [Note 2]

(6) "Closed Vessel Microwave Digestion of Wastewater Samples for Determination of Metals," CEM Corporation, P.O. Box 200, Matthews, North Carolina 28106-0200, April 16, 1992. Available from the CEM Corporation. [Note 15]

(7) "Official Methods of Analysis of AOAC—International, 15th Edition," 1990. Price: \$359.00. Available from: AOAC—International, 1970 Chain Bridge Rd., Dept. 0742, McLean, VA 22109-0742. [Note 3]

(8) "American National Standard on Photographic Processing Effluents," April 2, 1975. Available from: American National Standards Institute, 11 West 42nd Street, New York, New York 10036. [Note 8]

(9) Bicinchoninate Method for Copper. Method 8506, Hach Handbook of Water Analysis, 1979, Method and price available from Hach Chemical Company, P.O. Box 300, Loveland, Colorado 80537. [Note 10]

(10) Hydrogen Ion (pH) Automated Electrode Method, Industrial Method Number 378-75WA. October 1976. Bran & Luebbe (Technicon) Auto Analyzer II. Method and price available from Bran & Luebbe Analyzing Technologies, Inc. Elmsford, N.Y. 10523. [Note 11]

(11) Zincon Method for Zinc, Method 8009. Hach Handbook for Water Analysis, 1979. Method and price available from Hach Chemical Company, P.O. Box 389, Loveland, Colorado 80537. [Note 13]

(12) "Direct Current Plasma (DCP) Optical Emission Spectrometric Method for Trace Elemental Analysis of Water and Wastes," Method AES 0029, 1986 Revised 1991, Thermo Jarrell Ash Corporation (508-520-1880), 27 Forge Parkway, Franklin, MA 02038. [Note 14]

§ 444.13 Effluent limitations attainable by the application of the best practicable control technology currently available (BPT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the application of BPT:

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EFFLUENT LIMITATIONS¹

Regulated parameter	Maximum daily	Maximum monthly avg.
TSS	113,000	34,800
Arsenic	84	72
Cadmium	71	26
Chromium	25	14
Copper	23	14
Lead	57	32
Mercury	2.3	1.3
Silver	13	8
Titanium	60	22
Zinc	82	54
pH	(²)	(²)

¹ Micrograms per liter (ppb)
² Within the range 6 to 9.

§ 444.14 Effluent limitations attainable by the application of the best conventional pollutant control technology (BCT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the application of BCT: Limitations for TSS and pH are the same as the corresponding limitation specified in § 444.13.

§ 444.15 Effluent limitations attainable by the application of the best available technology economically achievable (BAT).

Except as provided in 40 CFR 125.30 through 125.32, any existing point source subject to this subpart must achieve the following effluent limitations representing the application of BAT: Limitations for arsenic, cadmium, chromium, copper, lead, mercury, silver, titanium and zinc are the same as the corresponding limitation specified in § 444.13.

§ 444.16 Pretreatment standards for existing sources (PSES).

Except as provided in 40 CFR 403.7 and 403.13, any source that introduces wastewater pollutants into a POTW must comply with part 403 and achieve the following pretreatment standards:

PRETREATMENT STANDARDS¹

Regulated parameter	Maximum daily	Maximum monthly avg.
Arsenic	84	72
Cadmium	71	26
Chromium	25	14
Copper	23	14

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PRETREATMENT STANDARDS¹—Continued

Regulated parameter	Maximum daily	Maximum monthly avg.
Lead	57	32
Mercury	2.3	1.3
Silver	13	8
Titanium	60	22
Zinc	82	54

¹ Micrograms per liter (ppb)

§ 444.17 New source performance standards (NSPS).

Any new source subject to this subpart must achieve the following performance standards: Standards for TSS, arsenic, cadmium, chromium, copper, lead, mercury, silver, titanium, zinc and pH are the same as the corresponding limitation specified in § 444.13.

§ 444.18 Pretreatment standards for new sources (PSNS).

Except as provided in 40 CFR 403.7, any source that introduces wastewater pollutants into a POTW must comply with 40 CFR part 403 and achieve the following pretreatment standards: Standards for arsenic, cadmium, chromium, copper, lead, mercury, silver, titanium and zinc are the same as the corresponding limitation specified in § 444.16.

[65 FR 4381, Jan. 27, 2000; 65 FR 33423, May 23, 2000]

PART 445—LANDFILLS POINT SOURCE CATEGORY

Sec.

- 445.1 General applicability.
- 445.2 General definitions.
- 445.3 General pretreatment standards.

Subpart A—RCRA Subtitle C Hazardous Waste Landfill

- 445.10 Applicability.
- 445.11 Effluent limitations attainable by the application of the best practicable control technology currently available (BPT).
- 445.12 Effluent limitations attainable by the application of the best conventional pollutant control technology (BCT).
- 445.13 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable (BAT).