

(3) The wastes meet the applicable alternate treatment standards established pursuant to a petition granted under § 268.44;

(4) Persons have been granted an extension to the effective date of a prohibition pursuant to § 268.5, with respect to these wastes covered by the extension.

(g) To determine whether a hazardous waste identified in this section exceeds the applicable treatment standards specified in § 268.40, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable Subpart D levels, the waste is prohibited from land disposal, and all requirements of this part 268 are applicable, except as otherwise specified.

[61 FR 15663, Apr. 8, 1996, as amended at 61 FR 33683, June 28, 1996; 62 FR 1997, Jan. 14, 1997; 62 FR 32979, June 17, 1997; 62 FR 37699, July 14, 1997; 63 FR 51264, Sept. 24, 1998]

Subpart D—Treatment Standards

§ 268.40 Applicability of treatment standards.

(a) A prohibited waste identified in the table “Treatment Standards for Hazardous Wastes” may be land disposed only if it meets the requirements found in the table. For each waste, the table identifies one of three types of treatment standard requirements:

(1) All hazardous constituents in the waste or in the treatment residue must be at or below the values found in the table for that waste (“total waste standards”); or

(2) The hazardous constituents in the extract of the waste or in the extract of the treatment residue must be at or below the values found in the table (“waste extract standards”); or

(3) The waste must be treated using the technology specified in the table (“technology standard”), which are described in detail in § 268.42, Table 1—Technology Codes and Description of Technology-Based Standards.

(b) For wastewaters, compliance with concentration level standards is based

on maximums for any one day, except for D004 through D011 wastes for which the previously promulgated treatment standards based on grab samples remain in effect. For all nonwastewaters, compliance with concentration level standards is based on grab sampling. For wastes covered by the waste extract standards, the test Method 1311, the Toxicity Characteristic Leaching Procedure found in “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,” EPA Publication SW-846, as incorporated by reference in § 260.11, must be used to measure compliance. An exception is made for D004 and D008, for which either of two test methods may be used: Method 1311, or Method 1310B, the Extraction Procedure Toxicity Test. For wastes covered by a technology standard, the wastes may be land disposed after being treated using that specified technology or an equivalent treatment technology approved by the Administrator under the procedures set forth in § 268.42(b).

(c) When wastes with differing treatment standards for a constituent of concern are combined for purposes of treatment, the treatment residue must meet the lowest treatment standard for the constituent of concern.

(d) Notwithstanding the prohibitions specified in paragraph (a) of this section, treatment and disposal facilities may demonstrate (and certify pursuant to 40 CFR 268.7(b)(5)) compliance with the treatment standards for organic constituents specified by a footnote in the table “Treatment Standards for Hazardous Wastes” in this section, provided the following conditions are satisfied:

(1) The treatment standards for the organic constituents were established based on incineration in units operated in accordance with the technical requirements of 40 CFR part 264, subpart O, or based on combustion in fuel substitution units operating in accordance with applicable technical requirements;

(2) The treatment or disposal facility has used the methods referenced in paragraph (d)(1) of this section to treat the organic constituents; and

(3) The treatment or disposal facility may demonstrate compliance with organic constituents if good-faith analytical efforts achieve detection limits for the regulated organic constituents that do not exceed the treatment standards specified in this section by an order of magnitude.

(e) For characteristic wastes (D001–D043) that are subject to treatment standards in the following table “Treatment Standards for Hazardous Wastes,” and are not managed in a wastewater treatment system that is regulated under the Clean Water Act (CWA), that is CWA-equivalent, or that is injected into a Class I nonhazardous deep injection well, all underlying hazardous constituents (as defined in § 268.2(i)) must meet Universal Treatment Standards, found in § 268.48, Table Universal Treatment Standards, prior to land disposal as defined in § 268.2(c) of this part.

(f) The treatment standards for F001–F005 nonwastewater constituents carbon disulfide, cyclohexanone, and/or methanol apply to wastes which contain only one, two, or three of these constituents. Compliance is measured for these constituents in the waste extract from test Method 1311, the Toxicity Characteristic Leaching Procedure found in “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods”, EPA Publication SW-846, as incorporated by reference in § 260.11. If the waste contains any of these three constituents along with any of the other 25 constituents found in F001–F005, then compliance with treatment standards for carbon disulfide, cyclohexanone, and/or methanol are not required.

(g) Between August 26, 1996 and March 4, 1999 the treatment standards for the wastes specified in 40 CFR 261.32 as EPA Hazardous Waste numbers K156–K161; and in 40 CFR 261.33 as EPA Hazardous Waste numbers P127, P128, P185, P188–P192, P194, P196–P199, P201–P205, U271, U277–U280, U364–U367, U372,

U373, U375–U379, U381–U387, U389–U396, U400–U404, U407, and U409–U411; and soil contaminated with these wastes; may be satisfied by either meeting the constituent concentrations presented in the table “Treatment Standards for Hazardous Wastes” in this section, or by treating the waste by the following technologies: combustion, as defined by the technology code CMBST at § 268.42 Table 1, for nonwastewaters; and, biodegradation as defined by the technology code BIODG, carbon adsorption as defined by the technology code CARBN, chemical oxidation as defined by the technology code CHOXD, or combustion as defined as technology code CMBST at § 268.42 Table 1, for wastewaters.

(h) Prohibited D004–D011 mixed radioactive wastes and mixed radioactive listed wastes containing metal constituents, that were previously treated by stabilization to the treatment standards in effect at that time and then put into storage, do not have to be re-treated to meet treatment standards in this section prior to land disposal.

(i) [Reserved]

(j) Effective September 4, 1998, the treatment standards for the wastes specified in 40 CFR 261.33 as EPA Hazardous Waste numbers P185, P191, P192, P197, U364, U394, and U395 may be satisfied by either meeting the constituent concentrations presented in the table “Treatment Standards for Hazardous Wastes” in this section, or by treating the waste by the following technologies: combustion, as defined by the technology code CMBST at § 268.42 Table 1 of this Part, for nonwastewaters; and, biodegradation as defined by the technology code BIODG, carbon adsorption as defined by the technology code CARBN, chemical oxidation as defined by the technology code CHOXD, or combustion as defined as technology code CMBST at § 268.42 Table 1 of this Part, for wastewaters.

TREATMENT STANDARDS FOR HAZARDOUS WASTES
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹ [Note: NA means not applicable]	Regulated hazardous constituent			Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TOLP"; or Technology Code ⁴
		Common name	CAS ² number	Concentration ³ in mg/L, or Technology Code ⁴		
D001 ^a	Ignitable Characteristic Wastes, except for the § 261.21(a)(1) High TOC Subcategory.	NA	NA	DEACT and meet § 268.48 standards ^a ; or RORGS; or CMBST	DEACT and meet § 268.48 standards ^a ; or RORGS; or CMBST	
D002 ^a	High TOC Ignitable Characteristic Liquids Subcategory based on 40 CFR 261.21(a)(1)—Greater than or equal to 10% total organic carbon. (Note: This subcategory consists of nonwastewaters only.) Corrosive Characteristic Wastes.	NA	NA	NA	RORGS; CMBST; or POLYM	
D002 ^a	Corrosive Characteristic Wastes.	NA	NA	DEACT and meet § 268.48 standards ^a	DEACT and meet § 268.48 standards ^a	
D002, D004, D005, D006, D007, D008, D009, D010, D011	Radioactive high level wastes generated during the reprocessing of fuel rods. (Note: This subcategory consists of nonwastewaters only.)	Corrosivity (pH) Arsenic Barium Cadmium Chromium (Total) Lead Mercury Selenium Silver	NA 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2 7440-22-4	NA NA NA NA NA NA NA NA	HLVIT HLVIT HLVIT HLVIT HLVIT HLVIT HLVIT HLVIT	
D003 ^a	Reactive Sulfides Subcategory based on 261.23(a)(5).	NA	NA	DEACT	DEACT	
	Explosives Subcategory based on 261.23(a)(6),(7), and (8).	NA	NA	DEACT and meet § 268.48 standards ^a	DEACT and meet § 268.48 standards ^a	
	Unexploded ordnance and other explosive devices which have been the subject of an emergency response.	NA	NA	DEACT	DEACT	
	Other Reactives Subcategory based on 261.23(a)(1).	NA	NA	DEACT and meet § 268.48 standards ^a	DEACT and meet § 268.48 standards ^a	

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹ [Note: NA means not applicable]	Regulated hazardous constituent			Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number	Wastewaters Concentration ³ in mg/L; or Technology Code ⁴	
	Water Reactive Subcategory based on 261.23(a)(2), (3), and (4). (Note: This subcategory consists of nonwastewaters only).	NA	NA	NA	DEACT and meet § 268.48 standards ^a
	Reactive Cyanides Subcategory based on 261.23(a)(5).	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	57-12-5 57-12-5	Reserved 0.86	590 30
D004 ^a	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for arsenic based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Arsenic	7440-38-2	1.4 and meet § 268.48 standards ^a	5.0 mg/L TCLP and meet § 268.48 standards ^a
D005 ^a	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for barium based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Barium	7440-39-3	1.2 and meet § 268.48 standards ^a	21 mg/L TCLP and meet § 268.48 standards ^a
D006 ^a	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for cadmium based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Cadmium	7440-43-9	0.69 and meet § 268.48 standards ^a	0.11 mg/L TCLP and meet § 268.48 standards ^a
	Cadmium Containing Batteries Subcategory. (Note: This subcategory consists of nonwastewaters only).	Cadmium	7440-43-9	NA	RTHRM
	Radioactively contaminated cadmium containing batteries. (Note: This subcategory consists of nonwastewaters only)	Cadmium	7440-43-9	NA	Macroencapsulation in accordance with 40 CFR 268.45.
D007 ^a	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for chromium based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Chromium (Total)	7440-47-3	2.77 and meet § 268.48 standards ^a	0.60 mg/L TCLP and meet § 268.48 standards ^a
D008 ^a	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for lead based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Lead	7439-92-1	0.69 and meet § 268.48 standards ^a	0.75 mg/L TCLP and meet § 268.48 standards ^a
	Lead Acid Batteries Subcategory (Note: This standard only applies to lead acid batteries that are identified as RCRA hazardous wastes and that are not excluded elsewhere from regulation under the land disposal restrictions of 40 CFR 268 or exempted under other EPA regulations (see 40 CFR 266.80). This subcategory consists of nonwastewaters only.)	Lead	7439-92-1	NA	RLEAD

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	Lead	7439-92-1	NA	MACRO
D009 ^a	Radioactive Lead Solids Subcategory (Note: These lead solids include, but are not limited to, all forms of lead shielding and other elemental forms of lead. These lead solids do not include treatment residuals such as hydroxide sludges, other wastewater treatment residuals, or incinerator ashes that can undergo conventional pozzolanic stabilization, nor do they include organo-lead materials that can be incinerated and stabilized as ash. This subcategory consists of nonwastewaters only.)			
	Mercury	7439-97-6	NA	IMERC; OR RMERC
	Mercury	7439-97-6	NA	RMERC
	Mercury	7439-97-6	NA	0.20 mg/L TCLP and meet \$268.48 standards ^a
	Mercury	7439-97-6	NA	0.025 mg/L TCLP and meet \$268.48 standards ^a
	Mercury	7439-97-6	0.15 mg/L TCLP and meet \$268.48 standards ^a	NA
	Mercury	7439-97-6	NA	AMLGM
	Mercury	7439-97-6	NA	IMERC
	Mercury	7439-97-6	NA	Macroencapsulation in accordance with 40 CFR 268.45.
	Selenium	7782-49-2	0.82 and meet \$268.48 standards ^a	5.7 mg/L TCLP and meet \$268.48 standards ^a
D010 ^a	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for selenium based on the toxicity characteristic leaching procedure (TCLP) in SW846.			

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters	Nonwastewaters
		Common name	CAS ² number		
D011 ⁹	Wastes that exhibit, or are expected to exhibit, the characteristic of toxicity for silver based on the toxicity characteristic leaching procedure (TCLP) in SW846.	Silver	7440-22-4	Concentration ³ in mg/L, or Technology Code ⁴ 0.43 and meet §268.48 standards ⁸	Concentration ⁵ in mg/kg unless noted "mg/L TCLP"; or Technology Code ⁴ 0.14 mg/L TCLP and meet §268.48 standards ⁸
	Radioactively contaminated silver containing batteries. Note: This subcategory consists of nonwastewaters only)	Silver	7440-22-4	NA	Macroencapsulation in accordance with 40 CFR 268.45.
D012 ⁹	Wastes that are TC for Endrin based on the TCLP in SW846 Method 1311.	Endrin	72-20-8	BIODG; or CMBST	0.13 and meet §268.48 standards ⁸
		Endrin aldehyde	7421-93-4	BIODG; or CMBST	0.13 and meet §268.48 standards ⁸
D013 ⁹	Wastes that are TC for Lindane based on the TCLP in SW846 Method 1311.	alpha-BHC	319-84-6	CARBN; or CMBST	0.066 and meet §268.48 standards ⁸
		beta-BHC	319-85-7	CARBN; or CMBST	0.066 and meet §268.48 standards ⁸
		delta-BHC	319-86-8	CARBN; or CMBST	0.066 and meet §268.48 standards ⁸
		gamma-BHC (Lindane)	58-89-9	CARBN; or CMBST	0.066 and meet §268.48 standards ⁸
D014 ⁹	Wastes that are TC for Methoxychlor based on the TCLP in SW846 Method 1311.	Methoxychlor	72-43-5	WETOX or CMBST	0.18 and meet §268.48 standards ⁸
D015 ⁹	Wastes that are TC for Toxaphene based on the TCLP in SW846 Method 1311.	Toxaphene	8001-35-2	BIODG or CMBST	2.6 and meet §268.48 standards ⁸

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D016 ^a	Wastes that are TC for 2,4-D (2,4-Dichlorophenoxyacetic acid) based on the TCLP in SW846 Method 1311.	2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	CHOXD, BIODG, or CMBST	10 and meet \$268.48 standards ^a
D017 ^a	Wastes that are TC for 2,4,5-TP (Silvex) based on the TCLP in SW846 Method 1311.	2,4,5-TP (Silvex)	93-72-1	CHOXD or CMBST	7.9 and meet \$268.48 standards ^a
D018 ^a	Wastes that are TC for Benzene based on the TCLP in SW846 Method 1311.	Benzene	71-43-2	0.14 and meet \$268.48 standards ^a	10 and meet \$268.48 standards ^a
D019 ^a	Wastes that are TC for Carbon tetrachloride based on the TCLP in SW846 Method 1311.	Carbon tetrachloride	56-23-5	0.057 and meet \$268.48 standards ^a	6.0 and meet \$268.48 standards ^a
D020 ^a	Wastes that are TC for Chlordane based on the TCLP in SW846 Method 1311.	Chlordane (alpha and gamma isomers)	57-74-9	0.0033 and meet \$268.48 standards ^a	0.26 and meet \$268.48 standards ^a
D021 ^a	Wastes that are TC for Chlorobenzene based on the TCLP in SW846 Method 1311.	Chlorobenzene	108-90-7	0.057 and meet \$268.48 standards ^a	6.0 and meet \$268.48 standards ^a
D022 ^a	Wastes that are TC for Chloroform based on the TCLP in SW846 Method 1311.	Chloroform	67-66-3	0.046 and meet \$268.48 standards ^a	6.0 and meet \$268.48 standards ^a
D023 ^a	Wastes that are TC for o-Cresol based on the TCLP in SW846 Method 1311.	o-Cresol	95-48-7	0.11 and meet \$268.48 standards ^a	5.6 and meet \$268.48 standards ^a
D024 ^a	Wastes that are TC for m-Cresol based on the TCLP in SW846 Method 1311.	m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77 and meet \$268.48 standards ^a	5.6 and meet \$268.48 standards ^a
D025 ^a	Wastes that are TC for p-Cresol based on the TCLP in SW846 Method 1311.	p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77 and meet \$268.48 standards ^a	5.6 and meet \$268.48 standards ^a
D026 ^a	Wastes that are TC for Cresols (Total) based on the TCLP in SW846 Method 1311.	Cresol-mixed isomers (Cresylic acid) (sum of o-, m-, and p-cresol concentrations)	1319-77-3	0.88 and meet \$268.48 standards ^a	11.2 and meet \$268.48 standards ^a
D027 ^a	Wastes that are TC for p-Dichlorobenzene based on the TCLP in SW846 Method 1311.	p-Dichlorobenzene (1,4-Dichlorobenzene)	106-46-7	0.090 and meet \$268.48 standards ^a	6.0 and meet \$268.48 standards ^a

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent			Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted "mg/L TCLP" ¹ , or Technology Code ⁴
		Common name	CAS ² number			
D028 ^a	Wastes that are TC for 1,2-Dichloroethane based on the TCLP in SW846 Method 1311.	1,2-Dichloroethane	107-06-2	0.21 and meet § 268.48 standards ^a	6.0 and meet § 268.48 standards ^a	
D029 ^a	Wastes that are TC for 1,1-Dichloroethylene based on the TCLP in SW846 Method 1311.	1,1-Dichloroethylene	75-35-4	0.025 and meet § 268.48 standards ^a	6.0 and meet § 268.48 standards ^a	
D030 ^a	Wastes that are TC for 2,4-Dinitrotoluene based on the TCLP in SW846 Method 1311.	2,4-Dinitrotoluene	121-14-2	0.32 and meet § 268.48 standards ^a	140 and meet § 268.48 standards ^a	
D031 ^a	Wastes that are TC for Heptachlor based on the TCLP in SW846 Method 1311.	Heptachlor	76-44-8	0.0012 and meet § 268.48 standards ^a	0.066 and meet § 268.48 standards ^a	
		Heptachlor epoxide	1024-57-3	0.016 and meet § 268.48 standards ^a	0.066 and meet § 268.48 standards ^a	
D032 ^a	Wastes that are TC for Hexachlorobenzene based on the TCLP in SW846 Method 1311.	Hexachlorobenzene	118-74-1	0.055 and meet § 268.48 standards ^a	10 and meet § 268.48 standards ^a	
D033 ^a	Wastes that are TC for Hexachlorobutadiene based on the TCLP in SW846 Method 1311.	Hexachlorobutadiene	87-68-3	0.055 and meet § 268.48 standards ^a	5.6 and meet § 268.48 standards ^a	
D034 ^a	Wastes that are TC for Hexachloroethane based on the TCLP in SW846 Method 1311.	Hexachloroethane	67-72-1	0.055 and meet § 268.48 standards ^a	30 and meet § 268.48 standards ^a	
D035 ^a	Wastes that are TC for Methyl ethyl ketone based on the TCLP in SW846 Method 1311.	Methyl ethyl ketone	78-93-3	0.28 and meet § 268.48 standards ^a	36 and meet § 268.48 standards ^a	
D036 ^a	Wastes that are TC for Nitrobenzene based on the TCLP in SW846 Method 1311.	Nitrobenzene	98-95-3	0.068 and meet § 268.48 standards ^a	14 and meet § 268.48 standards ^a	

D037 ^a	Wastes that are TC for Pentachlorophenol based on the TCLP in SW846 Method 1311.	Pentachlorophenol	87-86-5	0.089 and meet §268.48 standards ^a	7.4 and meet §268.48 standards ^a
D038 ^a	Wastes that are TC for Pyridine based on the TCLP in SW846 Method 1311.	Pyridine	110-86-1	0.014 and meet §268.48 standards ^a	16 and meet §268.48 standards ^a
D039 ^a	Wastes that are TC for Tetrachloroethylene based on the TCLP in SW846 Method 1311.	Tetrachloroethylene	127-18-4	0.056 and meet §268.48 standards ^a	6.0 and meet §268.48 standards ^a
D040 ^a	Wastes that are TC for Trichloroethylene based on the TCLP in SW846 Method 1311.	Trichloroethylene	79-01-6	0.054 and meet §268.48 standards ^a	6.0 and meet §268.48 standards ^a
D041 ^a	Wastes that are TC for 2,4,5-Trichlorophenol based on the TCLP in SW846 Method 1311.	2,4,5-Trichlorophenol	95-95-4	0.18 and meet §268.48 standards ^a	7.4 and meet §268.48 standards ^a
D042 ^a	Wastes that are TC for 2,4,6-Trichlorophenol based on the TCLP in SW846 Method 1311.	2,4,6-Trichlorophenol	88-06-2	0.035 and meet §268.48 standards ^a	7.4 and meet §268.48 standards ^a
D043 ^a	Wastes that are TC for Vinyl chloride based on the TCLP in SW846 Method 1311.	Vinyl chloride	75-01-4	0.27 and meet §268.48 standards ^a	6.0 and meet §268.48 standards ^a
F001, F002, F003, F004, & F005	F001, F002, F003, F004 and/or F005 solvent wastes that contain any combination of one or more of the following spent solvents: acetone, benzene, n-butyl alcohol, carbon disulfide, carbon tetrachloride, chlorinated fluorocarbons, chlorobenzene, o-cresol, m-cresol, p-cresol, cyclohexanone, o-dichlorobenzene, 2-ethoxyethanol, ethyl acetate, ethyl benzene, ethyl ether, isobutyl alcohol, methanol, methylene chloride, methyl ethyl ketone, methyl isobutyl ketone, nitrobenzene, 2-nitropropane, pyridine, tetrachloroethylene, toluene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1,2-trichloro-1,2,2-trifluoroethane, trichloroethylene, trichlorofluoromethane, and/or xylenes (except as specifically noted in other subcategories). See further details of these listings in § 261.31.	Acetone Benzene n-Butyl alcohol Carbon disulfide Carbon tetrachloride Chlorobenzene o-Cresol m-Cresol (difficult to distinguish from p-cresol) p-Cresol (difficult to distinguish from m-cresol) Cresol-mixed isomers (Cresylic acid) (sum of o-, m-, and p-cresol concentrations) Cyclohexanone o-Dichlorobenzene Ethyl acetate Ethyl benzene Ethyl ether Isobutyl alcohol Methanol Methylene chloride	67-64-1 71-43-2 71-36-3 75-15-0 56-23-5 108-90-7 95-48-7 108-39-4 106-44-5 1319-77-3 108-94-1 95-50-1 141-78-6 100-41-4 60-29-7 78-83-1 67-56-1 75-9-2	0.28 0.14 5.6 3.8 0.057 0.057 0.11 0.77 0.77 0.88 0.36 0.088 0.34 0.057 0.12 5.6 5.6 0.089	160 10 2.6 NA 6.0 6.0 6.0 5.6 5.6 5.6 11.2 NA 6.0 33 10 160 170 NA 30

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent			Wastewaters Concentration ³ in mg/L; or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number			
F006	F003 and/or F005 solvent wastes that contain any combination of one or more of the following three solvents as the only listed F001-5 solvents: carbon disulfide, cyclohexanone, and/or methanol. (formerly 268.41(c))	Methyl ethyl ketone	78-93-3	0.28	36	
		Methyl isobutyl ketone	108-10-1	0.14	33	
		Nitrobenzene	98-95-3	0.068	14	
		Pyridine	110-86-1	0.014	16	
		Tetrachloroethylene	127-18-4	0.056	6.0	
		Toluene	108-88-3	0.080	10	
		1,1,1-Trichloroethane	71-55-6	0.054	6.0	
		1,1,2-Trichloroethane	79-00-5	0.054	6.0	
		1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.057	30	
		Trichloroethylene	79-01-6	0.054	6.0	
F005 solvent waste containing 2-Nitropropane as the only listed F001-5 solvent.	Trichlorofluoromethane	75-69-4	0.020	30		
	Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30		
	Carbon disulfide	75-15-0	3.8	4.8 mg/L TCLP		
F006	F005 solvent waste containing 2-Ethoxyethanol as the only listed F001-5 solvent.	Cyclohexanone	108-94-1	0.36	0.75 mg/L TCLP	
		Methanol	67-56-1	5.6	0.75 mg/L TCLP	
		2-Nitropropane	79-46-9	(WETOX or CHOXD) lb CARBN; or CMBST	CMBST	
		2-Ethoxyethanol	110-80-5	BIODG; or CMBST	CMBST	
		Cadmium	7440-43-9	0.69	0.11 mg/L TCLP	
		Chromium (Total)	7440-47-3	2.77	0.60 mg/L TCLP	
		Cyanides (Total) ⁷	57-12-5	1.2	590	
		Cyanides (Amenable) ⁷	57-12-5	0.86	30	
		Lead	7439-92-1	0.69	0.75 mg/L TCLP	
		Nickel	7440-02-0	3.98	11 mg/L TCLP	
F007	Spent cyanide plating bath solutions from electroplating operations.	Silver	7440-22-4	NA	0.14 mg/L TCLP	
		Cadmium	7440-43-9	NA	0.11 mg/L TCLP	
		Chromium (Total) ⁷	7440-47-3	2.77	0.60 mg/L TCLP	
		Cyanides (Total) ⁷	57-12-5	1.2	590	
		Cyanides (Amenable) ⁷	57-12-5	0.86	30	
	Lead	7439-92-1	0.69	0.75 mg/L TCLP		
	Nickel	7440-02-0	3.98	11 mg/L TCLP		

		7440-22-4	NA	0.14 mg/L TCLP
F008	Plating bath residues from the bottom of plating baths from electroplating operations where cyanides are used in the process.	Silver Cadmium Chromium (Total) Cyanides (Total) ⁷ Cyanides (Amenable) ⁷ Lead Nickel Silver	NA NA 2.77 1.2 0.86 0.69 3.98 NA	0.11 mg/L TCLP 0.60 mg/L TCLP 590 30 0.75 mg/L TCLP 11 mg/L TCLP 0.14 mg/L TCLP
F009	Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process.	Cadmium Chromium (Total) Cyanides (Total) ⁷ Cyanides (Amenable) ⁷ Lead Nickel Silver	NA 2.77 1.2 0.86 0.69 3.98 NA	0.11 mg/L TCLP 0.60 mg/L TCLP 590 30 0.75 mg/L TCLP 11 mg/L TCLP 0.14 mg/L TCLP
F010	Quenching bath residues from oil baths from metal heat treating operations where cyanides are used in the process.	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	1.2 0.86	590 NA
F011	Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations.	Cadmium Chromium (Total) Cyanides (Total) ⁷ Cyanides (Amenable) ⁷ Lead Nickel Silver	NA 2.77 1.2 0.86 0.69 3.98 NA	0.11 mg/L TCLP 0.60 mg/L TCLP 590 30 0.75 mg/L TCLP 11 mg/L TCLP 0.14 mg/L TCLP
F012	Quenching wastewater treatment sludges from metal heat treating operations where cyanides are used in the process.	Cadmium Chromium (Total) Cyanides (Total) ⁷ Cyanides (Amenable) ⁷ Lead Nickel Silver	NA 2.77 1.2 0.86 0.69 3.98 NA	0.11 mg/L TCLP 0.60 mg/L TCLP 590 30 0.75 mg/L TCLP 11 mg/L TCLP 0.14 mg/L TCLP
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.	Chromium (Total) Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	2.77 1.2 0.86	0.60 mg/L TCLP 590 30

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
F020, F021, F022, F023, F026	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of: (1) tri- or tetrachlorophenol, or of intermediates used to produce their pesticide derivatives, excluding wastes from the production of Hexachlorophene from highly purified, 2,4,5-trichlorophenol (F020); (2) pentachlorophenol, or of intermediates used to produce its derivatives (i.e., F021); (3) tetra-, penta-, or hexachlorobenzenes under alkaline conditions (i.e., F022); and from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of: (1) tri- or tetrachlorophenols, excluding wastes from equipment used only for the production of Hexachlorophene from highly purified 2,4,5-trichlorophenol (F023); (2) tetra-, penta-, or hexachlorobenzenes under alkaline conditions (i.e., F026).	HxCDDs (All Hexachlorodibenzo-p-dioxins) Hx CDFs (All Hexachlorodibenzofurans) PeCDDs (All Pentachlorodibenzo-p-dioxins) PeCDFs (All Pentachlorodibenzofurans) Pentachlorophenol TCDDs (All Tetrachlorodibenzo-p-dioxins) TCDFs (All Tetrachlorodibenzofurans) 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,3,4,6-Tetrachlorophenol	NA NA NA NA 87-86-5 NA NA 95-95-4 88-06-2 58-90-2	0.000063 0.000063 0.000063 0.000035 0.089 0.000063 0.000063 0.18 0.035 0.030	0.001 0.001 0.001 0.001 7.4 0.001 0.001 7.4 7.4 7.4
F024	Process wastes, including but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludges, spent catalysts, and wastes listed in §261.31 or §261.32).	All F024 wastes 2-Chloro-1,3-butadiene 3-Chloropropylene 1,1-Dichloroethane 1,2-Dichloroethane cis-1,3-Dichloropropene trans-1,3-Dichloropropylene bis(2-Ethylhexyl)phthalate Hexachloroethane Chromium (Total) Nickel	NA 126-99-8 107-05-1 75-34-3 107-06-2 78-87-5 10061-01-5 10061-02-6 117-81-7 67-72-1 7440-47-3 7440-02-0	CMBST ¹¹ 0.057 0.036 0.059 0.21 0.85 0.086 0.036 0.28 0.055 2.77 3.98	CMBST ¹¹ 0.28 30 6.0 6.0 18 18 18 28 30 0.60 mg/L TCLP 11 mg/L TCLP
F025	Condensed light ends from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. F025—Light Ends Subcategory	Carbon tetrachloride Chloroform 1,2-Dichloroethane 1,1-Dichloroethylene Methylene chloride 1,1,2-Trichloroethane Trichloroethylene Vinyl chloride	56-23-5 67-66-3 107-06-2 75-35-4 75-9-2 79-00-5 79-01-6 75-01-4	0.057 0.046 0.21 0.025 0.089 0.064 0.054 0.27	6.0 6.0 6.0 6.0 30 6.0 6.0 6.0

<p>Spent filters and filter aids, and spent desiccant, wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. F025—Spent Filters/Aids and Desiccants Subcategory</p>	<p>Carbon tetrachloride Chloroform Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Methylene chloride 1,1,2-Trichloroethane Trichloroethylene Vinyl chloride HxCDDs (All Hexachlorodibenzo-p-dioxins) HxCDFs (All Hexachlorodibenzofurans) PeCDDs (All Pentachlorodibenzo-p-dioxins) PeCDFs (All Pentachlorodibenzofurans) Pentachlorophenol TCDDs (All Tetrachlorodibenzo-p-dioxins) TCDFs (All Tetrachlorodibenzofurans) 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,3,4,6-Tetrachlorophenol</p>	<p>56-23-5 67-66-3 118-74-1 87-68-3 67-72-1 75-9-2 79-00-5 79-01-6 75-01-4 NA NA NA NA NA 87-86-5 NA 95-95-4 88-06-2 58-90-2</p>	<p>0.057 6.0 0.046 10 0.065 5.6 0.055 30 0.089 30 0.089 6.0 0.054 6.0 0.27 0.000063 0.000063 0.000063 0.000035 0.089 0.000063 0.000063 0.18 0.035 0.030</p>	<p>6.0 6.0 10 5.6 30 30 6.0 6.0 0.001 0.001 0.001 0.001 7.4 0.001 0.001 7.4 7.4 7.4</p>
<p>F027</p> <p>Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.)</p>	<p>HxCDDs (All Hexachlorodibenzo-p-dioxins) HxCDFs (All Hexachlorodibenzofurans) PeCDDs (All Pentachlorodibenzo-p-dioxins) PeCDFs (All Pentachlorodibenzofurans) Pentachlorophenol TCDDs (All Tetrachlorodibenzo-p-dioxins) TCDFs (All Tetrachlorodibenzofurans) 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,3,4,6-Tetrachlorophenol</p>	<p>NA NA NA NA NA 87-86-5 NA 95-95-4 88-06-2 58-90-2</p>	<p>0.000063 0.000063 0.000063 0.000035 0.089 0.000063 0.000063 0.18 0.035 0.030</p>	<p>0.001 0.001 0.001 0.001 7.4 0.001 0.001 7.4 7.4 7.4</p>
<p>F028</p> <p>Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Wastes Nos. F020, F021, F023, F026, and F027.</p>	<p>HxCDDs (All Hexachlorodibenzo-p-dioxins) HxCDFs (All Hexachlorodibenzofurans) PeCDDs (All Pentachlorodibenzo-p-dioxins) PeCDFs (All Pentachlorodibenzofurans) Pentachlorophenol TCDDs (All Tetrachlorodibenzo-p-dioxins) TCDFs (All Tetrachlorodibenzofurans) 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,3,4,6-Tetrachlorophenol</p>	<p>NA NA NA NA NA 87-86-5 NA 95-95-4 88-06-2 58-90-2</p>	<p>0.000063 0.000063 0.000063 0.000035 0.089 0.000063 0.000063 0.18 0.035 0.030</p>	<p>0.001 0.001 0.001 0.001 7.4 0.001 0.001 7.4 7.4 7.4</p>

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
F032	Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use or have previously used chlorophenolic formulations (except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with § 261.35 of this chapter or potentially cross-contaminated wastes that are otherwise currently regulated as hazardous wastes (i.e., F034 or F035), and where the generator does not resume or initiate use of chlorophenolic formulations). This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or penta-chlorophenol.	Acenaphthene	83-32-9	0.059	3.4
		Anthracene	120-12-7	0.059	3.4
		Benz(a)anthracene	56-55-3	0.059	3.4
		Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene)	205-99-2	0.11	6.8
		Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene)	207-08-9	0.11	6.8
		Benzo(a)pyrene	50-32-8	0.061	3.4
		Chrysene	218-01-9	0.059	3.4
		Dibenz(a,h)anthracene	53-70-3	0.055	8.2
		2,4-Dimethyl phenol	105-67-9	0.036	14
		Fluorene	86-73-7	0.059	3.4
		Hexachlorodibenzo-p-dioxins	NA	0.000063, or CMBST ¹¹	0.001, or CMBST ¹¹
		Hexachlorodibenzofurans	NA	0.000063, or CMBST ¹¹	0.001, or CMBST ¹¹
		Indeno (1,2,3-c,d) pyrene	193-39-5	0.0055	3.4
		Naphthalene	91-20-3	0.059	5.6
		Pentachlorodibenzo-p-dioxins	NA	0.000063, or CMBST ¹¹	0.001, or CMBST ¹¹
		Pentachlorodibenzofurans	NA	0.00035, or CMBST ¹¹	0.001, or CMBST ¹¹
		Pentachlorophenol	87-86-5	0.089	7.4
		Phenanthrene	85-01-8	0.059	5.6
		Phenol	108-95-2	0.039	6.2
		Pyrene	129-00-0	0.067	8.2
		Tetrachlorodibenzo-p-dioxins	NA	0.000063, or CMBST ¹¹	0.001, or CMBST ¹¹
		Tetrachlorodibenzofurans	NA	0.000063, or CMBST ¹¹	0.001, or CMBST ¹¹
		2,3,4,6-Tetrachlorophenol	58-90-2	0.030	7.4
		2,4,6-Trichlorophenol	88-06-2	0.035	7.4
		Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
		Chromium (Total)	7440-47-3	2.77	0.60 mg/L TCLP

F034	<p>Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.</p>	<p>Acenaphthene Anthracene Benz(a)anthracene Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene) Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene) Benzo(a)pyrene Chrysene Dibenz(a,h)anthracene Fluorene Indeno(1,2,3-c,d)pyrene Naphthalene Phenanthrene Pyrene Arsenic Chromium (Total)</p>	<p>83-32-9 120-12-7 56-55-3 205-99-2 207-08-9 50-32-8 218-01-9 53-70-3 86-73-7 193-39-5 91-20-3 85-01-8 129-00-0 7440-38-2 7440-47-3</p>	<p>0.059 0.059 0.059 0.11 0.11 0.061 0.059 0.055 0.059 0.0055 0.059 0.059 0.067 1.4 2.77</p>	<p>3.4 3.4 3.4 6.8 6.8 3.4 3.4 8.2 3.4 3.4 5.6 5.6 8.2 5.0 mg/L TCLP 0.60 mg/L TCLP</p>
F035	<p>Wastewaters (except those that have not come into contact with process contaminants), process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.</p>	<p>Arsenic Chromium (Total)</p>	<p>7440-38-2 7440-47-3</p>	<p>1.4 2.77</p>	<p>5.0 mg/L TCLP 0.60 mg/L TCLP</p>
F037	<p>Petroleum refinery primary oil/water/solids separation sludge—Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in: oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow. Sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in §261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing.</p>	<p>Acenaphthene Anthracene Benzene Benz(a)anthracene Benzo(a)pyrene bis(2-Ethylhexyl) phthalate Chrysene Di-n-butyl phthalate Ethylbenzene Fluorene Naphthalene Phenanthrene Phenol Pyrene Toluene Xylenes-mixed isomers (sum of o, m-, and p-xylene concentrations) Chromium (Total) Cyanides (Total)⁷ Lead Nickel</p>	<p>83-32-9 120-12-7 71-43-2 56-55-3 50-32-8 117-81-7 218-01-9 84-74-2 100-41-4 86-73-7 91-20-3 85-01-8 108-95-2 129-00-0 108-88-3 1330-20-7 7440-47-3 57-12-5 7439-92-1 7440-02-0</p>	<p>0.059 0.059 0.14 0.059 0.061 0.28 0.059 0.057 0.057 0.059 0.059 0.059 0.039 0.067 0.080 0.32 2.77 1.2 0.69 NA</p>	<p>NA 3.4 10 3.4 3.4 28 3.4 28 10 NA 10 5.6 5.6 6.2 8.2 10 30 0.60 mg/L TCLP 590 NA 11 mg/L TCLP</p>

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴		
		Common name	CAS ² number				
F038	Petroleum refinery secondary (emulsified) oil/water/solids separation sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges and floats generated in aggressive biological treatment units as defined in § 261.31(b)(2) (including sludges and floats generated in one or more additional units after wastewaters have been treated in aggressive biological units) and F037, K048, and K051 are not included in this listing.	Benzene	71-43-2	0.14	10		
		Benzo(a)pyrene	50-32-8	0.061	3.4		
F039	Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under subpart D of this part. (Leachate resulting from the disposal of one or more of the following EPA Hazardous Wastes and no other Hazardous Wastes retains its EPA Hazardous Waste Number(s): F020, F021, F022, F026, F027, and/or F028.)	bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28		
		Chrysene	218-01-9	0.059	3.4		
		Di-n-butyl phthalate	84-74-2	0.057	28		
		Ethylbenzene	100-41-4	0.057	10		
		Fluorene	86-73-7	0.059	NA		
		Naphthalene	91-20-3	0.059	5.6		
		Phenanthrene	85-01-8	0.059	5.6		
		Phenol	108-95-2	0.039	6.2		
		Pyrene	129-00-0	0.067	8.2		
		Toluene	108-88-3	0.080	10		
		Xylenes-mixed isomers (sum of o, m, and p-xylene concentrations)	1330-20-7	0.32	30		
		Chromium (Total)	7440-47-3	2.77	0.60 mg/L TCLP		
		Cyanides (Total) ⁷	57-12-5	1.2	590		
		Lead	7439-92-1	0.69	NA		
		Nickel	7440-02-0	NA	11 mg/L TCLP		
		F039	Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under subpart D of this part. (Leachate resulting from the disposal of one or more of the following EPA Hazardous Wastes and no other Hazardous Wastes retains its EPA Hazardous Waste Number(s): F020, F021, F022, F026, F027, and/or F028.)	Acenaphthylene	208-96-8	0.059	3.4
				Acenaphthene	83-32-9	0.059	3.4
				Acetone	67-64-1	0.28	160
				Acetonitrile	75-05-8	5.6	NA
				Acetophenone	96-86-2	0.010	9.7
2-Acetylamidofluorene	53-96-3			0.059	140		
Acrolein	107-02-8			0.29	NA		
Acrylonitrile	107-13-1			0.24	84		
Aldrin	309-00-2			0.021	0.066		
4-Aminobiphenyl	92-67-1			0.13	NA		
Aniline	62-53-3			0.81	14		
o-Anisidine (2-methoxyaniline)	90-04-0			0.010	0.66		
Anthracene	120-12-7			0.059	3.4		
Aramite	140-57-8			0.36	NA		
alpha-BHC	319-84-6			0.00014	0.066		
beta-BHC	319-85-7			0.00014	0.066		
delta-BHC	319-86-8			0.023	0.066		
gamma-BHC	58-89-9			0.0017	0.066		
Benzene	71-43-2			0.14	10		
Benz(a)anthracene	56-55-3			0.059	3.4		

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Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene)	205-99-2	0.11	6.8
Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene)	207-08-9	0.11	6.8
Benzo(g,h,i)perylene	191-24-2	0.0055	1.8
Benzo(e)pyrene	50-32-8	0.061	3.4
Bromodichloromethane	75-27-4	0.35	15
Methyl bromide (Bromomethane)	74-83-9	0.11	15
4-Bromophenyl phenyl ether	101-55-3	0.055	15
n-Butyl alcohol	71-36-3	5.6	2.6
Butyl benzy phthalate	85-68-7	0.017	28
2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	88-85-7	0.066	2.5
Carbon disulfide	75-15-0	3.8	NA
Carbon tetrachloride	56-23-5	0.057	6.0
Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
p-Chloroaniline	106-47-8	0.46	16
Chlorobenzene	108-90-7	0.057	6.0
Chlorobenzilate	510-15-6	0.10	NA
2-Chloro-1,3-butadiene	126-99-8	0.057	NA
Chlorodibromomethane	124-48-1	0.057	15
Chloroethane	75-00-3	0.27	6.0
bis(2-Chloroethoxy)methane	111-91-1	0.036	7.2
bis(2-Chloroethyl)ether	111-44-4	0.033	6.0
Chloroform	67-66-3	0.046	6.0
bis(2-Chloroisopropyl)ether	39638-32-9	0.055	7.2
p-Chloro-m-cresol	59-50-7	0.018	14
Chloromethane (Methyl chloride)	74-87-3	0.19	30
2-Chloronaphthalene	91-58-7	0.055	5.6
2-Chlorophenol	95-57-8	0.044	5.7
3-Chloropropylene	107-05-1	0.036	30
Chrysene	218-01-9	0.059	3.4
o-Cresol	95-48-7	0.11	5.6
p-Cresidine	120-71-8	0.010	0.66
m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77	5.6
p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
Cyclohexanone	108-94-1	0.36	NA
1,2-Dibromo-3-chloropropane	96-12-8	0.11	15
Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.028	15
Dibromomethane	74-95-3	0.11	15
2,4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	0.72	10
o,p'-DD	53-19-0	0.023	0.087
p,p'-DDD	72-54-8	0.023	0.087
o,p'-DDE	3424-82-6	0.031	0.087
p,p'-DDE	72-55-9	0.031	0.087

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
		o,p'-DDT	789-02-6	0.0039	0.087
		p,p'-DDT	50-29-3	0.0039	0.087
		Dibenz(a,h)anthracene	53-70-3	0.055	8.2
		Dibenz(a,e)pyrene	192-65-4	0.061	NA
		m-Dichlorobenzene	541-73-1	0.036	6.0
		o-Dichlorobenzene	95-50-1	0.088	6.0
		p-Dichlorobenzene	106-46-7	0.090	6.0
		Dichlorodifluoromethane	75-71-8	0.23	7.2
		1,1-Dichloroethane	75-34-3	0.059	6.0
		1,2-Dichloroethane	107-06-2	0.21	6.0
		1,1-Dichloroethylene	75-35-4	0.025	6.0
		trans-1,2-Dichloroethylene	156-60-5	0.054	30
		2,4-Dichlorophenol	120-83-2	0.044	14
		2,6-Dichlorophenol	87-65-0	0.044	14
		1,2-Dichloropropane	78-87-5	0.85	18
		cis-1,3-Dichloropropylene	10061-01-5	0.036	18
		trans-1,3-Dichloropropylene	10061-02-6	0.036	18
		Dieldrin	60-57-1	0.017	0.13
		Diethyl phthalate	84-66-2	0.20	28
		2,4-Dimethylaniline (2,4-xyldine)	95-68-1	0.010	0.66
		2,4-Dimethyl phenol	105-67-9	0.036	14
		Dimethyl phthalate	131-11-3	0.047	28
		Di-n-butyl phthalate	84-74-2	0.057	28
		1,4-Dinitrobenzene	100-25-4	0.32	2.3
		4,6-Dinitro-o-cresol	534-52-1	0.28	160
		2,4-Dinitrophenol	51-28-5	0.12	160
		2,4-Dinitrotoluene	121-14-2	0.32	140
		2,6-Dinitrotoluene	606-20-2	0.55	28
		Di-n-octyl phthalate	117-84-0	0.017	28
		Di-n-propylnitrosamine	621-64-7	0.40	14
		1,4-Dioxane	123-91-1	12.0	170
		Diphenylamine (difficult to distinguish from diphenylnitrosamine)	122-39-4	0.92	NA
		Diphenylnitrosamine (difficult to distinguish from diphenylamine)	86-30-6	0.92	NA
		1,2-Diphenylhydrazine	122-66-7	0.087	NA
		Disulfoton	298-04-4	0.017	6.2
		Endosulfan I	939-98-8	0.023	0.066
		Endosulfan II	33213-6-5	0.029	0.13
		Endosulfan sulfate	1031-07-8	0.029	0.13

Endrin	72-20-8	0.0028	0.13
Endrin aldehyde	7421-93-4	0.025	0.13
Ethyl acetate	141-78-6	0.34	33
Ethyl cyanide (Propanenitrile)	107-12-0	0.24	360
Ethyl benzene	100-41-4	0.057	10
Ethyl ether	60-29-7	0.12	160
bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
Ethyl methacrylate	97-63-2	0.14	160
Ethylene oxide	75-21-8	0.12	NA
Famphur	52-85-7	0.17	15
Fluoranthene	206-44-0	0.066	3.4
Fluorene	86-73-7	0.059	3.4
Heptachlor	76-44-8	0.0012	0.066
Heptachlor epoxide	1024-57-3	0.016	0.066
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)	35822-46-9	0.000035	0.0025
1, 2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	0.000035	0.0025
1,2,3,4,6,7,8-HpCDF	55673-89-7	0.000035	0.0025
1,2,3,4,7,8,9-Heptachlorodibenzofuran	118-74-1	0.065	10
Hexachlorobenzene	87-68-3	0.065	5.6
Hexachlorobutadiene	77-47-4	0.057	2.4
Hexachlorocyclopentadiene	NA	0.000063	0.001
HxCDDs (All Hexachlorodibenzo-p-dioxins)	NA	0.000063	0.001
HxCDFs (All Hexachlorodibenzofurans)	NA	0.000063	0.001
Hexachloroethane	67-72-1	0.065	30
Hexachloropropylene	1888-71-7	0.035	30
Indeno (1,2,3-c,d) pyrene	193-39-5	0.0055	3.4
Indomethane	74-88-4	0.019	65
Isobutyl alcohol	78-83-1	5.6	170
Isodrin	465-73-6	0.021	0.066
Isosafrole	120-58-1	0.081	2.6
Kepone	143-50-8	0.0011	0.13
Methacrylonitrile	126-98-7	0.24	84
Methanol	67-56-1	5.6	NA
Methacrylonitrile	91-80-5	0.081	1.5
Methoxychlor	72-43-5	0.25	0.18
3-Methylcholanthrene	56-49-5	0.0055	15
4,4-Methylene bis(2-chloroaniline)	101-14-4	0.50	30
Methylene chloride	75-09-2	0.089	30
Methyl ethyl ketone	78-93-3	0.28	36
Methyl isobutyl ketone	108-10-1	0.14	33
Methyl methacrylate	80-62-6	0.14	160
Methyl methanesulfonate	66-27-3	0.018	NA
Methyl parathion	298-00-0	0.014	NA
Naphthalene	91-20-3	0.059	5.6
N-Naphthylamine	91-59-8	0.52	NA

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
		p-Nitroaniline	100-01-6	0.028	28
		Nitrobenzene	98-95-3	0.066	14
		5-Nitro-o-toluidine	99-55-8	0.32	28
		p-Nitrophenol	100-02-7	0.12	29
		N-Nitrosodiethylamine	55-18-5	0.40	28
		N-Nitrosodimethylamine	62-75-9	0.40	NA
		N-Nitroso-di-n-butylamine	924-16-3	0.40	17
		N-Nitrosomethylethylamine	10595-95-6	0.40	2.3
		N-Nitrosomorpholine	59-89-2	0.40	2.3
		N-Nitrosopiperidine	100-75-4	0.013	35
		N-Nitrosopyrrolidine	930-55-2	0.013	35
		1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	3268-87-9	0.000063	0.005
		1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	39001-02-0	0.000063	0.005
		Parathion	56-38-2	0.014	4.6
		Total PCBs (sum of all PCB isomers, or all Aroclors)	1336-36-3	0.10	10
		Pentachlorobenzene	608-93-5	0.055	10
		PeCDDs (All Pentachlorodibenzo-p-dioxins)	NA	0.000063	0.001
		PeCDFs (All Pentachlorodibenzofurans)	NA	0.000035	0.001
		Pentachloronitrobenzene	82-68-8	0.055	4.8
		Pentachlorophenol	87-86-5	0.089	7.4
		Phenacetin	62-44-2	0.081	16
		Phenanthrene	85-01-8	0.059	5.6
		Phenol	108-95-2	0.039	6.2
		2,4-Dimethylaniline (2,4-xylydine)	108-45-2	0.010	0.66
		Phorate	298-02-2	0.021	4.6
		Phthalic anhydride	85-44-9	0.055	NA
		Pronamide	23950-58-5	0.093	1.5
		Pyrene	129-00-0	0.067	8.2
		Pyridine	110-86-1	0.014	16
		Safrole	94-59-7	0.081	22
		Silvex (2,4,5-TP)	93-72-1	0.72	7.9
		2,4,5-T	93-76-5	0.72	7.9
		1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14
		TCDDs (All Tetrachlorodibenzo-p-dioxins)	NA	0.000063	0.001

		NA	0.000063	0.001	
K001	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.	TCDFs (All Tetrachlorodibenzofurans)			
		1,1,1,2-Tetrachloroethane	630-20-6	6.0	
		1,1,2,2-Tetrachloroethane	79-34-6	6.0	
		Tetrachloroethylene	127-18-4	6.0	
		2,3,4,6-Tetrachlorophenol	58-90-2	7.4	
		Toluene	108-88-3	10	
		Toxaphene	8001-35-2	2.6	
		Bromoform (Tribromomethane)	75-25-2	15	
		1,2,4-Trichlorobenzene	120-82-1	19	
		1,1,1-Trichloroethane	71-55-6	6.0	
		1,1,2-Trichloroethane	79-00-5	6.0	
		Trichloroethylene	79-01-6	6.0	
		Trichlorofluoromethane	75-69-4	30	
		2,4,5-Trichlorophenol	95-95-4	7.4	
		2,4,6-Trichlorophenol	88-06-2	7.4	
		1,2,3-Trichloropropane	96-18-4	30	
		1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	30	
		tris(2,3-Dibromopropyl) phosphate	126-72-7	NA	
		Vinyl chloride	75-01-4	6.0	
		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	30	
		Antimony	7440-36-0	1.9	
		Arsenic	7440-38-2	1.4	
		Barium	7440-39-3	1.2	
		Beryllium	7440-41-7	0.82	
		Cadmium	7440-43-9	0.69	
		Chromium (Total)	7440-47-3	2.77	
		Cyanides (Total) ⁷	57-12-5	1.2	
		Cyanides (Amenable) ⁷	57-12-5	0.86	
		Fluoride	16984-48-8	35	
		Lead	7439-92-1	0.69	
		Mercury	7439-97-6	0.15	
		Nickel	7440-02-0	3.98	
		Selenium	7782-49-2	0.82	
		Silver	7440-22-4	0.43	
		Sulfide	8496-25-8	14	
		Thallium	7440-28-0	1.4	
		Vanadium	7440-62-2	4.3	
		Naphthalene	91-20-3	0.69	
		Pentachlorophenol	87-86-5	0.89	
		Phenanthrene	85-01-8	0.059	
		Pyrene	129-00-0	0.067	
		Toluene	108-88-3	0.080	
		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	
		Lead	7439-92-1	0.69	
K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.	Chromium (Total)	7440-47-3	2.77	0.60 mg/L TCLP
		Lead	7439-92-1	0.69	0.75 mg/L TCLP

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Tech ⁴ nology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
K003	Wastewater treatment sludge from the production of molybdate orange pigments.	Chromium (Total) Lead	7440-47-3 7439-92-1	2.77 0.69	0.60 mg/L TCLP 0.75 mg/L TCLP
K004	Wastewater treatment sludge from the production of zinc yellow pigments.	Chromium (Total) Lead	7440-47-3 7439-92-1	2.77 0.69	0.60 mg/L TCLP 0.75 mg/L TCLP
K005	Wastewater treatment sludge from the production of chrome green pigments.	Chromium (Total) Lead Cyanides (Total) ⁷	7440-47-3 7439-92-1 57-12-5	2.77 0.69 1.2	0.60 mg/L TCLP 0.75 mg/L TCLP 590
K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous).	Chromium (Total) Lead	7440-47-3 7439-92-1	2.77 0.69	0.60 mg/L TCLP 0.75 mg/L TCLP
	Wastewater treatment sludge from the production of chrome oxide green pigments (hydrated).	Chromium (Total) Lead	7440-47-3 7439-92-1	2.77 0.69	0.60 mg/L TCLP NA
K007	Wastewater treatment sludge from the production of iron blue pigments.	Chromium (Total) Lead Cyanides (Total) ⁷	7440-47-3 7439-92-1 57-12-5	2.77 0.69 1.2	0.60 mg/L TCLP 0.75 mg/L TCLP 590
K008	Oven residue from the production of chrome oxide green pigments.	Chromium (Total) Lead	7440-47-3 7439-92-1	2.77 0.69	0.60 mg/L TCLP 0.75 mg/L TCLP
K009	Distillation bottoms from the production of acetaldehyde from ethylene.	Chloroform	67-66-3	0.046	6.0
K010	Distillation side cuts from the production of acetaldehyde from ethylene.	Chloroform	67-66-3	0.046	6.0
K011	Bottom stream from the wastewater stripper in the production of acrylonitrile.	Acetonitrile Acrylonitrile Acrylamide Benzene Cyanide (Total)	75-05-8 107-13-1 79-06-1 71-43-2 57-12-5	5.6 0.24 19 0.14 1.2	38 84 23 10 590
K013	Bottom stream from the acetonitrile column in the production of acrylonitrile.	Acetonitrile Acrylonitrile Acrylamide Benzene Cyanide (Total)	75-05-8 107-13-1 79-06-1 71-43-2 57-12-5	5.6 0.24 19 0.14 1.2	38 84 23 10 590

K014	Bottoms from the acetonitrile purification column in the production of acrylonitrile.	Acetonitrile Acrylonitrile Acrylamide Benzene Cyanide (Total)	75-05-8 107-13-1 79-06-1 71-43-2 57-12-5	5.6 0.24 19 0.14 1.2	38 84 23 10 590
K015	Still bottoms from the distillation of benzyl chloride.	Anthracene Benzal chloride Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene) Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene) Phenanthrene Toluene Chromium (Total) Nickel	120-12-7 98-87-3 205-99-2 207-08-9 85-01-8 108-88-3 7440-47-3 7440-02-0	0.059 0.055 0.11 0.11 0.059 0.080 2.77 3.98	3.4 6.0 6.8 6.8 5.6 10 0.60 mg/L TCLP 11 mg/L TCLP
K016	Heavy ends or distillation residues from the production of carbon tetrachloride.	Hexachlorobenzene Hexachlorobutadiene Hexachlorocyclopentadiene Hexachloroethane Tetrachloroethylene	118-74-1 87-68-3 77-47-4 67-72-1 127-18-4	0.055 0.055 0.057 0.055 0.056	10 5.6 2.4 30 6.0
K017	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.	bis(2-Chloroethyl)ether 1,2-Dichloropropane 1,2,3-Trichloropropane	111-44-4 78-87-5 96-18-4	0.033 0.85 0.85	6.0 18 30
K018	Heavy ends from the fractionation column in ethyl chloride production.	Chloroethane Chloromethane 1,1-Dichloroethane 1,2-Dichloroethane Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Pentachloroethane 1,1,1-Trichloroethane	75-00-3 74-87-3 75-34-3 107-06-2 118-74-1 87-68-3 67-72-1 78-01-7 71-55-6	0.27 0.19 0.059 0.21 0.055 0.055 0.055 NA 0.054	6.0 NA 6.0 6.0 10 5.6 30 6.0 6.0
K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.	bis(2-Chloroethyl)ether Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene Hexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachlorobenzene Tetrachloroethylene 1,2,4-Trichlorobenzene 1,1,1-Trichloroethane	111-44-4 108-90-7 67-66-3 106-46-7 107-06-2 86-73-7 67-72-1 91-20-3 85-01-8 95-94-3 127-18-4 120-82-1 71-55-6	0.033 0.057 0.046 0.090 0.21 0.059 0.055 0.059 0.059 0.055 0.056 0.055 0.054	6.0 6.0 6.0 NA 6.0 NA 30 5.6 5.6 NA 6.0 19 6.0

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.	1,2-Dichloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene	107-06-2 79-34-6 127-18-4	0.21 0.057 0.056	6.0 6.0 6.0
K021	Aqueous spent antimony catalyst waste from fluoromethanes production.	Carbon tetrachloride Chloroform Antimony	56-23-5 67-66-3 7440-36-0	0.057 0.046 1.9	6.0 6.0 1.15 mg/L TCLP
K022	Distillation bottoms tars from the production of pheno/acetone from cumene.	Toluene Acetophenone Diphenylamine (difficult to distinguish from diphenylnitrosamine) Diphenylnitrosamine (difficult to distinguish from diphenylamine) Phenol Chromium (Total) Nickel	108-88-3 96-86-2 122-39-4 86-30-6 108-95-2 7440-47-3 7440-02-0	0.080 0.010 0.92 0.92 0.039 2.77 3.98	10 9.7 13 13 6.2 0.60 mg/L TCLP 11 mg/L TCLP
K023	Distillation light ends from the production of phthalic anhydride from naphthalene.	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid) Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0 85-44-9	0.055 0.055	28 28
K024	Distillation bottoms from the production of phthalic anhydride from naphthalene.	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid) Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0 85-44-9	0.055 0.055	28 28
K025	Distillation bottoms from the production of nitrobenzene by the nitration of benzene.	NA	NA	LLEX ¹ fb SSTRP fb CARBN; or CMBST	CMBST
K026	Stripping still tails from the production of methyl ethyl pyridines.	NA	NA	CMBST	CMBST
K027	Centrifuge and distillation residues from toluene diisocyanate production.	NA	NA	CARBEN; or CMBST	CMBST
K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.	1,1-Dichloroethane trans-1,2-Dichloroethylene Hexachlorobutadiene Hexachloroethane	75-34-3 156-60-5 87-68-3 67-72-1	0.059 0.054 0.055 0.055	6.0 30 5.6 30

K029	Waste from the product steam stripper in the production of 1,1,1-trichloroethane.	Pentachloroethane 1,1,1,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethylene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Cadmium Chromium (Total) Lead Nickel	76-01-7 630-20-6 79-34-6 127-18-4 71-55-6 79-00-5 7440-43-9 7440-47-3 7439-92-1 7440-02-0	NA 0.057 0.057 0.056 0.054 0.054 NA 2.77 0.69 3.98	6.0 6.0 6.0 6.0 6.0 6.0 NA 0.60 mg/L TCLP 0.75 mg/L TCLP 11 mg/L TCLP
K030	Column bodies or heavy ends from the combined production of trichloroethylene and perchloroethylene.	Chloroform 1,2-Dichloroethane 1,1-Dichloroethylene 1,1,1-Trichloroethane Vinyl chloride	67-66-3 107-06-2 75-35-4 71-55-6 75-01-4	0.046 0.21 0.025 0.054 0.27	6.0 6.0 6.0 6.0 6.0
K031	By-product salts generated in the production of MSMA and cacodylic acid.	o-Dichlorobenzene p-Dichlorobenzene Hexachlorobutadiene Hexachloroethane Hexachloropropylene Pentachlorobenzene Pentachloroethane 1,2,4,5-Tetrachlorobenzene Tetrachloroethylene 1,2,4-Trichlorobenzene	95-50-1 106-46-7 87-68-3 67-72-1 1888-71-7 608-93-5 76-01-7 95-94-3 127-18-4 120-82-1	0.088 0.090 0.065 0.055 NA NA NA 0.055 0.056 0.065	NA NA 5.6 30 30 10 6.0 14 6.0 19
K032	Wastewater treatment sludge from the production of chlordane.	Arsenic Hexachlorocyclopentadiene Chlordane (alpha and gamma isomers) Heptachlor Heptachlor epoxide	7440-38-2 77-47-4 57-74-9 76-44-8 1024-57-3	1.4 .057 0.0033 0.0012 0.016	5.0 mg/L TCLP 2.4 0.26 0.066 0.066
K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.	Hexachlorocyclopentadiene	77-47-4	0.057	2.4
K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.	Hexachlorocyclopentadiene	77-47-4	0.057	2.4
K035	Wastewater treatment sludges generated in the production of cresote.	Acenaphthene Anthracene Benz(a)anthracene Benzo(a)pyrene Chrysene o-Cresol m-Cresol (difficult to distinguish from p-cresol)	83-32-9 120-12-7 56-55-3 50-32-8 218-01-9 95-48-7 108-39-4	NA NA 0.059 0.061 0.059 0.11 0.77	3.4 3.4 3.4 3.4 3.4 5.6 5.6

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Tech- nology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
		p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
		Dibenz(a,h)anthracene	53-70-3	NA	8.2
		Fluoranthene	206-44-0	0.068	3.4
		Fluorene	86-73-7	NA	3.4
		Indeno(1,2,3-cd)pyrene	193-39-5	NA	3.4
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	85-01-1	0.059	5.6
		Phenol	108-95-2	0.039	6.2
		Pyrene	129-00-0	0.067	8.2
K036	Still bottoms from toluene reclamation distillation in the production of disulfoton.	Disulfoton	298-04-4	0.017	6.2
K037	Wastewater treatment sludges from the production of disulfoton.	Disulfoton Toluene	298-04-4 108-88-3	0.017 0.080	6.2 10
K038	Wastewater from the washing and stripping of phorate production.	Phorate	298-02-2	0.021	4.6
K039	Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.	NA	NA	CARBN; or CMBST	CMBST
K040	Wastewater treatment sludge from the production of phorate.	Phorate	298-02-2	0.021	4.6
K041	Wastewater treatment sludge from the production of toxaphene.	Toxaphene	8001-35-2	0.0095	2.6
K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.	o-Dichlorobenzene p-Dichlorobenzene Pentachlorobenzene 1,2,4,5-Tetrachlorobenzene 1,2,4-Trichlorobenzene	95-50-1 106-46-7 608-93-5 95-94-3 120-82-1	0.088 0.090 0.055 0.055 0.055	6.0 6.0 10 14 19
K043	2,6-Dichlorophenol waste from the production of 2,4-D.	2,4-Dichlorophenol 2,6-Dichlorophenol 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol 2,3,4,6-Tetrachlorophenol Pentachlorophenol Tetrachloroethylene	120-83-2 187-65-0 95-95-4 88-06-2 58-90-2 87-86-5 127-18-4	0.044 0.044 0.18 0.035 0.030 0.089 0.056	14 14 7.4 7.4 7.4 7.4 6.0

	<p>HxCDDs (All Hexachlorodibenzo-p-dioxins) HxCDFs (All Hexachlorodibenzofurans) PeCDDs (All Pentachlorodibenzo-p-dioxins) PeCDFs (All Pentachlorodibenzofurans) TCDDs (All Tetrachlorodibenzo-p-dioxins) TCDFs (All Tetrachlorodibenzofurans)</p>	<p>NA NA NA NA NA NA</p>	<p>0.000063 0.000063 0.000063 0.000035 0.000063 0.000063</p>	<p>0.001 0.001 0.001 0.001 0.001 0.001</p>
K044	<p>Wastewater treatment sludges from the manufacturing and processing of explosives.</p>	NA	DEACT	DEACT
K045	<p>Spent carbon from the treatment of wastewater containing explosives.</p>	NA	DEACT	DEACT
K046	<p>Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.</p>	Lead	0.69	0.75 mg/L TCLP
K047	<p>Pink/red water from TNT operations.</p>	NA	DEACT	DEACT
K048	<p>Dissolved air flotation (DAF) float from the petroleum refining industry.</p>	<p>71-43-2 50-32-8 117-81-7 218-01-9 84-74-2 100-41-4 86-73-7 91-20-3 91-20-3 85-01-8 108-95-2 129-00-0 Pyrene Toluene 108-88-33 1330-20-7 Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations) Chromium (Total) 7440-47-3 57-12-5 7439-92-1 Lead 7439-92-1 Nickel 7440-02-0</p>	<p>0.14 0.061 0.28 0.069 0.057 0.057 0.059 0.059 0.059 0.039 0.067 0.080 0.32 2.77 1.2 0.69 NA</p>	<p>10 3.4 28 3.4 28 10 NA 5.6 5.6 6.2 8.2 10 30 0.60 mg/L TCLP 590 NA NA 11 mg/L TCLP</p>
K049	<p>Slop oil emulsion solids from the petroleum refining industry.</p>	<p>120-12-7 71-43-2 50-32-8 117-81-7 75-15-0 218-01-9 105-67-9 100-41-4 91-20-3 85-01-8</p>	<p>0.059 0.14 0.061 0.28 3.8 0.059 0.036 0.057 0.059 0.059</p>	<p>3.4 10 3.4 28 NA 3.4 NA 10 5.6 5.6</p>

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Tech- nology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.	Phenol	108-95-2	0.039	6.2
		Pyrene	129-00-0	0.067	8.2
		Toluene	108-88-3	0.080	10
		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Chromium (Total)	7440-47-3	2.77	0.60 mg/L TCLP
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	11 mg/L TCLP
		Benzo(a)pyrene	50-32-8	0.061	3.4
		Phenol	108-95-2	0.039	6.2
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Chromium (Total)	7440-47-3	2.77	0.60 mg/L TCLP
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	11 mg/L TCLP
K051	API separator sludge from the petroleum refining industry.	Acenaphthene	83-32-9	0.059	NA
		Anthracene	120-12-7	0.059	3.4
		Benz(a)anthracene	56-55-3	0.059	3.4
		Benzene	71-43-2	0.14	10
		Benzo(a)pyrene	50-32-8	0.061	3.4
		bis(2-Ethylhexyl)phthalate	117-81-7	0.28	28
		Chrysene	218-01-9	0.059	3.4
		Di-n-butyl phthalate	105-67-9	0.057	28
		Ethylbenzene	100-41-4	0.057	10
		Fluorene	86-73-7	0.059	NA
		Naphthalene	91-20-3	0.059	5.6
		Phenanthrene	85-01-8	0.059	5.6
		Phenol	108-95-2	0.039	6.2
		Pyrene	129-00-0	0.067	8.2
		Toluene	108-88-3	0.08	10
		Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
		Cyanides (Total) ⁷	57-12-5	1.2	590
		Chromium (Total)	7440-47-3	2.77	0.60 mg/L TCLP
		Lead	7439-92-1	0.69	NA
		Nickel	7440-02-0	NA	11 mg/L TCLP

K052	Tank bottoms (leaded) from the petroleum refining industry.	Benzene Benzo(a)pyrene o-Cresol m-Cresol (difficult to distinguish from p-cresol) p-Cresol (difficult to distinguish from m-cresol) 2,4-Dimethylphenol Ethylbenzene Naphthalene Phenanthrene Phenol Toluene Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations) Chromium (Total) Cyanides (Total) ⁷ Lead Nickel	71-43-2 50-32-8 95-48-7 108-39-4 106-44-5 105-67-9 100-41-4 91-20-3 85-01-8 108-95-2 108-88-3 1330-20-7 7440-47-3 57-12-5 7439-92-1 7440-02-0	0.14 0.061 0.11 0.77 0.77 0.036 0.057 0.059 0.059 0.039 0.08 0.32 2.77 1.2 0.69 NA	10 3.4 5.6 5.6 5.6 NA 10 5.6 5.6 6.2 10 30 0.60 mg/L TCLP 590 NA 11 mg/L TCLP
K060	Ammonia still lime sludge from coking operations.	Benzene Benzo(a)pyrene Naphthalene Phenol Cyanides (Total) ⁷	71-43-2 50-32-8 91-20-3 108-95-2 57-12-5	0.14 0.061 0.059 0.039 1.2	10 3.4 5.6 6.2 590
K061	Emission control dust/sludge from the primary production of steel in electric furnaces.	Antimony Arsenic Barium Beryllium Cadmium Chromium (Total) Lead Mercury Nickel Selenium Silver Thallium Zinc	7440-36-0 7440-38-2 7440-39-3 7440-41-7 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7440-02-0 7782-49-2 7440-22-4 7440-28-0 7440-66-6	NA NA NA NA 0.69 2.77 0.69 NA 3.98 NA NA NA NA	1.15 mg/L TCLP 5.0 mg/L TCLP 21 mg/L TCLP 1.22 mg/L TCLP 0.11 mg/L TCLP 0.60 mg/L TCLP 0.75 mg/L TCLP 0.025 mg/L TCLP 11 mg/L TCLP 5.7 mg/L TCLP 0.14 mg/L TCLP 0.20 mg/L TCLP 4.3 mg/L TCLP
K062	Spent pickle liquor generated by steel finishing operations of facilities within the iron and steel industry (SIC Codes 331 and 332).	Chromium (Total) Lead Nickel	7440-47-3 7439-92-1 7440-02-0	2.77 0.69 3.98	0.60 mg/L TCLP 0.75 mg/L TCLP NA
K069	Emission control dust/sludge from secondary lead smelting—Calcium Sulfate (Low Lead) Subcategory	Cadmium Lead	7440-43-9 7439-92-1	0.69 0.69	0.11 mg/L TCLP 0.75 mg/L TCLP
	Emission control dust/sludge from secondary lead smelting—Non-Calcium Sulfate (High Lead) Subcategory	NA	NA	NA	RLEAD

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹ [Note: NA means not applicable]	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
K071	K071 (Brine purification muds from the mercury cell process in chlorine production, where separately prepurified brine is not used) nonwastewaters that are residues from RMERC.	Mercury	7439-97-6	NA	0.20 mg/L TCLP
		Mercury	7439-97-6	NA	0.025 mg/L TCLP
K073	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.	Mercury	7439-97-6	0.15	NA
		Carbon tetrachloride	56-23-5	0.057	6.0
		Chloroform	67-66-3	0.046	6.0
		Hexachloroethane	67-72-1	0.055	30
		Tetrachloroethylene	127-18-4	0.056	6.0
		1,1,1-Trichloroethane	71-55-6	0.054	6.0
		Aniline	62-53-3	0.81	14
		Benzene	71-43-2	0.14	10
		Cyclohexanone	108-94-1	0.36	NA
		Diphenylamine (difficult to distinguish from diphenylnitrosamine)	122-39-4	0.92	13
		Diphenylnitrosamine (difficult to distinguish from diphenylamine)	86-30-6	0.92	13
		Nitrobenzene	98-95-3	0.068	14
Phenol	108-95-2	0.039	6.2		
Nickel	7440-02-0	3.98	11 mg/L TCLP		
K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
K085	Distillation or fractionation column bottoms from the production of chlorobenzenes.	Benzene	71-43-2	0.14	10
		Chlorobenzene	108-90-7	0.057	6.0
		m-Dichlorobenzene	541-73-1	0.036	6.0
		o-Dichlorobenzene	95-50-1	0.088	6.0
		p-Dichlorobenzene	106-46-7	0.090	6.0
		Hexachlorobenzene	118-74-1	0.065	10
		Total PCBs (sum of all PCB isomers, or all Aroclors)	1336-36-3	0.10	10
		Pentachlorobenzene	608-93-5	0.055	10
		1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14

	1,2,4-Trichlorobenzene	120-82-1	0.055	19	
K086	Solvent wastes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.	Acetone bis(2-Ethylhexyl) phthalate n-Butyl alcohol Butylbenzyl phthalate Cyclohexanone o-Dichlorobenzene Diethyl phthalate Dimethyl phthalate Di-n-butyl phthalate Di-n-octyl phthalate Ethyl acetate Ethylbenzene Methanol Methyl ethyl ketone Methyl isobutyl ketone Methylene chloride Naphthalene Nitrobenzene Toluene 1,1,1-Trichloroethane Trichloroethylene Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations) Chromium (Total) Cyanides (Total) Lead	67-64-1 96-86-2 117-81-7 71-36-3 85-68-7 108-94-1 95-50-1 84-66-2 131-11-3 84-74-2 117-84-0 141-78-6 100-41-4 67-56-1 78-93-3 108-10-1 75-09-2 91-20-3 98-95-3 108-88-3 71-55-6 79-01-6 1330-20-7 7440-47-3 57-12-5 7439-92-1	0.28 0.010 0.28 5.6 0.017 0.36 0.088 0.20 0.047 0.057 0.017 0.34 0.057 5.6 0.28 0.14 0.089 0.059 0.688 0.080 0.054 0.054 0.32 2.77 1.2 0.69	160 9.7 2.6 28 NA 6.0 28 28 28 33 10 NA 36 33 30 5.6 14 10 6.0 6.0 30 0.60 mg/L TCLP 590 0.75 mg/L TCLP
K087	Decanter tank tar sludge from coking operations.	Acenaphthylene Benzene Chrysene Fluoranthene Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Toluene Xylenes-mixed isomers (sum of o, m-, and p-xylene concentrations) Lead	208-96-8 71-43-2 218-01-9 206-44-0 193-39-5 91-20-3 85-01-8 108-88-3 1330-20-7 7439-92-1	0.059 0.14 0.059 0.068 0.0055 0.059 0.059 0.080 0.32 0.69	3.4 10 3.4 3.4 3.4 5.6 10 30 0.60 mg/L TCLP 590 0.75 mg/L TCLP
K088	Spent potliners from primary aluminum reduction.	Acenaphthene Anthracene Benz(a)anthracene Benzo(a)pyrene Benz(b)fluoranthene Benzo(k)fluoranthene Benzo(G,h,i)perylene Chrysene Dibenz(a,h)anthracene	83-32-9 120-12-7 56-55-3 50-32-8 205-99-2 207-08-9 191-24-2 218-01-9 53-70-3	0.059 0.059 0.059 0.061 0.11 0.11 0.0055 0.059 0.055	3.4 3.4 3.4 3.4 6.8 6.8 1.8 3.4 8.2

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent			Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴		
		Common name	CAS ² number	Wastewaters Concentration ³ in mg/L; or Tech- nology Code ⁴			
		Fluoranthene	206-44-0	0.068	3.4		
		Indeno(1,2,3-cd)pyrene	193-39-5	0.0055	3.4		
		Phenanthrene	85-01-8	0.059	5.6		
		Pyrene	129-00-0	0.067	8.2		
		Antimony	7440-36-0	1.9	1.15 mg/L TCLP		
		Arsenic	7440-38-2	1.4	26.1		
		Barium	7440-39-3	1.2	21 mg/L TCLP		
		Beryllium	7440-41-7	0.82	1.22 mg/L TCLP		
		Cadmium	7440-43-9	0.69	0.11 mg/L TCLP		
		Chromium (Total)	7440-47-3	2.77	0.60 mg/L TCLP		
		Lead	7439-92-1	0.69	0.75 mg/L TCLP		
		Mercury	7439-97-6	0.15	0.025 mg/L TCLP		
		Nickel	7440-02-0	3.98	11 mg/L TCLP		
		Selenium	7782-49-2	0.82	5.7 mg/L TCLP		
		Silver	7440-22-4	0.43	0.14 mg/L TCLP		
		Cyanide (Total) ⁷	57-12-5	1.2	590		
		Cyanide (Amenable) ⁷	57-12-5	0.86	30		
		Fluoride	16984-48-8	35	NA		
		K083	Distillation light ends from the production of phthalic anhydride from ortho-xylene	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0	0.055	28
				Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	85-44-9	0.055	28
Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0			0.055	28		
K084	Distillation bottoms from the production of phthalic anhydride from ortho-xylene.	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	85-44-9	0.055	28		
		Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0	0.055	28		
K085	Distillation bottoms from the production of 1,1,1-trichloroethane.	Hexachloroethane	67-72-1	0.055	30		
		Pentachloroethane	76-01-7	0.055	6.0		
		1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0		
		1,1,2,2-Tetrachloroethane	79-34-6	0.057	6.0		
		Tetrachloroethylene	127-18-4	0.056	6.0		
		1,1,2-Trichloroethane	79-00-5	0.054	6.0		
		Trichloroethylene	79-01-1	0.054	6.0		
K086	Heavy ends from the heavy ends column from the production of 1,1,1-tri-chloroethane.	m-Dichlorobenzene	541-73-1	0.096	6.0		
		Pentachloroethane	76-01-1	0.055	6.0		
		1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0		

K097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.	1,1,2,2-Tetrachloroethane Tetrachloroethylene 1,2,4-Trichlorobenzene 1,1,2-Trichloroethane Trichloroethylene	79-34-6 127-18-4 120-82-1 79-00-5 79-01-6	0.057 0.056 0.065 0.064 0.054	6.0 6.0 19 6.0 6.0
K098	Untreated process wastewater from the production of toxaphene.	Chlordane (alpha and gamma isomers) Heptachlor Heptachlor epoxide Hexachlorocyclopentadiene	57-74-9 76-44-8 1024-57-3 77-47-4	0.0033 0.0012 0.016 0.057	0.26 0.066 0.066 2.4
K099	Untreated wastewater from the production of 2,4-D.	Toxaphene 2,4-Dichlorophenoxyacetic acid HxCDDs (All Hexachlorodibenzo-p-dioxins) HxCDFs (All Hexachlorodibenzofurans) PeCDDs (All Pentachlorodibenzo-p-dioxins) PeCDFs (All Pentachlorodibenzofurans) TCDDs (All Tetrachlorodibenzo-p-dioxins) TCDFs (All Tetrachlorodibenzofurans)	8001-35-2 94-75-7 NA NA NA NA NA NA NA	0.0095 0.72 0.000063 0.000063 0.000063 0.000035 0.000063 0.000063	2.6 10 0.001 0.001 0.001 0.001 0.001 0.001
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.	Cadmium Chromium (Total) Lead	7440-43-9 7440-47-3 7439-92-1	0.69 2.77 0.69	0.11 mg/L TCLP 0.60 mg/L TCLP 0.75 mg/L TCLP
K101	Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	o-Nitroaniline Arsenic Cadmium Lead Mercury	88-74-4 7440-38-2 7440-43-9 7439-92-1 7439-97-6	0.27 1.4 0.69 0.69 0.15	14 5.0 mg/L TCLP NA NA NA
K102	Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.	o-Nitrophenol Arsenic Cadmium Lead Mercury	88-75-5 7440-38-2 7440-43-9 7439-92-1 7439-97-6	0.028 1.4 0.69 0.69 0.15	13 5.0 mg/L TCLP NA NA NA
K103	Process residues from aniline extraction from the production of aniline.	Aniline Benzene 2,4-Dinitrophenol Nitrobenzene Phenol	62-53-3 71-43-2 51-28-5 98-95-3 108-95-2	0.81 0.14 0.12 0.068 0.039	14 10 160 14 6.2
K104	Combined wastewater streams generated from nitrobenzene/aniline production.	Aniline Benzene	62-53-3 71-43-2	0.81 0.14	14 10

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent			Wastewaters	Nonwastewaters
		Common name	CAS ² number	Concentration ³ in mg/L; or Tech ⁴ nology Code ⁴	Concentration ⁵ in mg/kg unless noted "mg/L TCLP"; or Technology Code ⁴	
K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.	2,4-Dinitrophenol	51-28-5	0.12	160	
		Nitrobenzene	98-95-3	0.068	14	
		Phenol	108-95-2	0.039	6.2	
		Cyanides (Total) ⁷	57-12-5	1.2	590	
K106	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.	Benzene	71-43-2	0.14	10	
		Chlorobenzene	108-90-7	0.057	6.0	
		2-Chlorophenol	95-57-8	0.044	5.7	
		o-Dichlorobenzene	95-50-1	0.088	6.0	
		p-Dichlorobenzene	106-46-7	0.090	6.0	
		Phenol	108-95-2	0.039	6.2	
		2,4,5-Trichlorophenol	95-95-4	0.18	7.4	
2,4,6-Trichlorophenol	88-06-2	0.035	7.4			
K106	K106 (wastewater treatment sludge from the mercury cell process in chlorine production) nonwastewaters that contain greater than or equal to 260 mg/kg total mercury.	Mercury	7439-97-6	NA	RMERC	
		Mercury	7439-97-6	NA	0.20 mg/L TCLP	
		Mercury	7439-97-6	NA	0.025 mg/L TCLP	
		Mercury	7439-97-6	0.15	NA	
K107	Column bottoms from production separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	NA	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST	
		NA	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST	
K108	Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	NA	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST	
K109	Spent filter cartridges from product purification from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	NA	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST	

	NA	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST
K110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.	NA		
K111	Product washwaters from the production of dinitrotoluene via nitration of toluene.	2,4-Dinitrotoluene 2,6-Dinitrotoluene	121-14-2 606-20-2	140 28
K112	Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.	NA	CMBST; or CHOXD fb CARBN; or BIODG fb CARBN	CMBST
K113	Condensed liquid light ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	NA	CARBN; or CMBST	CMBST
K114	Vicinals from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	NA	CARBN; or CMBST	CMBST
K115	Heavy ends from the purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.	Nickel NA	3.98 CARBN; or CMBST	11 mg/L TCLP CMBST
K116	Organic condensate from the solvent recovery column in the production of toluene dithiocyanate via phosgenation of toluenediamine.	NA	CARBN; or CMBST	CMBST
K117	Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.	Methyl bromide (Bromomethane) Chloroform Ethylene dibromide (1,2-Dibromoethane)	74-83-9 67-66-3 106-93-4	15 6.0 15
K118	Spent absorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	Methyl bromide (Bromomethane) Chloroform Ethylene dibromide (1,2-Dibromoethane)	74-83-9 67-66-3 106-93-4	15 6.0 15
K123	Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenedisithiocarbamic acid and its salts.	NA	CMBST; or CHOXD fb (BIODG or CARBN)	CMBST
K124	Reactor vent scrubber water from the production of ethylenedisithiocarbamic acid and its salts.	NA	CMBST; or CHOXD fb (BIODG or CARBN)	CMBST
K125	Filtration, evaporation, and centrifugation solids from the production of ethylenedisithiocarbamic acid and its salts.	NA	CMBST; or CHOXD fb (BIODG or CARBN)	CMBST
K126	Baghouse dust and floor sweepings in milling and packaging operations from the production or formulation of ethylenedisithiocarbamic acid and its salts.	NA	CMBST; or CHOXD fb (BIODG or CARBN)	CMBST

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Tech- nology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
K131	Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.	Methyl bromide (Bromomethane)	74-83-9	0.11	15
K132	Spent absorbent and wastewater separator solids from the production of methyl bromide.	Methyl bromide (Bromomethane)	74-83-9	0.11	15
K136	Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.	Methyl bromide (Bromomethane) Chloroform Ethylene dibromide (1,2-Dibromoethane)	74-83-9 67-66-3 106-93-4	0.11 0.46 0.028	15 6.0 15
K141	Process residues from the recovery of coal tar, including, but not limited to, collecting sump residues from the production of coke or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar sludge from coking operations).	Benzene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene) Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene) Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene	71-43-2 56-55-3 50-2-8 205-99-2 207-08-9 218-01-9 53-70-3 193-39-5	0.14 0.059 0.061 0.11 0.11 0.059 0.055 0.0055	10 3.4 3.4 6.8 6.8 3.4 8.2 3.4
K142	Tar storage tank residues from the production of coke from coal or from the recovery of coke by-products produced from coal.	Benzene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene) Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene) Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene	71-43-2 56-55-3 50-32-8 205-99-2 207-08-9 218-01-9 53-70-3 193-39-5	0.14 0.059 0.061 0.11 0.11 0.059 0.055 0.0055	10 3.4 3.4 6.8 6.8 3.4 8.2 3.4
K143	Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-products produced from coal.	Benzene Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene)	71-43-2 56-55-3 50-32-8 205-99-2	0.14 0.059 0.061 0.11	10 3.4 3.4 6.8

K144	Wastewater sump residues from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal.	Benz(o,k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene) Chrysene	207-08-9	0.11	6.8		
			218-01-9	0.059	3.4		
K145	Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.	Benzene Benz(a)pyrene Benz(o,a)anthracene Benz(o,b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene) Benz(o,k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene) Chrysene Dibenz(a,h)anthracene	71-43-2	0.14	10		
			56-55-3	0.059	3.4		
			50-32-8	0.061	3.4		
			218-01-9	0.059	3.4		
			53-70-3	0.055	8.2		
			91-20-3	0.059	5.6		
			71-43-2	0.14	10		
			56-55-3	0.059	3.4		
			50-32-8	0.061	3.4		
			205-99-2	0.11	6.8		
K147	Tar storage tank residues from coal tar refining.	Benzene Benz(a)anthracene Benz(o,a)pyrene Benz(o,b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene) Benz(o,k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene) Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene	71-43-2	0.14	10		
			56-55-3	0.059	3.4		
			50-32-8	0.061	3.4		
			205-99-2	0.11	6.8		
			207-08-9	0.11	6.8		
			218-01-9	0.059	3.4		
			53-70-3	0.055	8.2		
			193-39-5	0.0055	3.4		
			56-55-3	0.059	3.4		
			50-32-8	0.061	3.4		
K148	Residues from coal tar distillation, including, but not limited to, still bottoms.	Benz(o,a)anthracene Benz(o,p)pyrene Benz(o,b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene) Benz(o,k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene) Chrysene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene	56-55-3	0.059	3.4		
			50-32-8	0.061	3.4		
			205-99-2	0.11	6.8		
			207-08-9	0.11	6.8		
			218-01-9	0.059	3.4		
			53-70-3	0.055	8.2		
			193-39-5	0.0055	3.4		
			56-55-3	0.059	3.4		
			50-32-8	0.061	3.4		
			205-99-2	0.11	6.8		
K149	Distillation bottoms from the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. (This waste does not include still bottoms from the distillations of benzyl chloride.)	Chlorobenzene Chloroform Chloromethane p-Dichlorobenzene Hexachlorobenzene Pentachlorobenzene 1,2,4,5-Tetrachlorobenzene Toluene	108-90-7	0.057	6.0		
			67-66-3	0.046	6.0		
			74-87-3	0.19	30		
			106-46-7	0.090	6.0		
			118-74-1	0.055	10		
			608-93-5	0.055	10		
			95-94-3	0.055	14		
			108-88-3	0.080	10		

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent			Wastewaters	Nonwastewaters	
		Common name	CAS ² number	Concentration ³ in mg/L; or Tech ⁴ nology Code ⁴	Concentration ⁵ in mg/kg unless noted "mg/L TCLP"; or Technology Code ⁴		
K150	Organic residuals, excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha- (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	Carbon tetrachloride	56-23-5	0.057	6.0		
		Chloroform	67-66-3	0.046	6.0		
		Chloromethane	74-87-3	0.019	30		
		p-Dichlorobenzene	106-46-7	0.090	6.0		
		Hexachlorobenzene	118-74-1	0.055	10		
		Pentachlorobenzene	608-93-5	0.055	10		
		1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14		
		1,1,2,2-Tetrachloroethane	79-34-5	0.057	6.0		
		Tetrachloroethylene	127-18-4	0.056	6.0		
		1,2,4-Trichlorobenzene	120-82-1	0.055	19		
		K151	Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha- or (methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.	Benzene	71-43-2	0.14	10
				Carbon tetrachloride	56-23-5	0.057	6.0
				Chloroform	67-66-3	0.046	6.0
				Hexachlorobenzene	118-74-1	0.055	10
Pentachlorobenzene	608-93-5			0.055	10		
1,2,4,5-Tetrachlorobenzene	95-94-3			0.055	14		
Tetrachloroethylene	127-18-4			0.056	6.0		
Toluene	108-88-3	0.080	10				

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent			Wastewaters	Nonwastewaters	
		Common name	CAS ² number	Concentration ³ in mg/L, or Technology Code ⁴	Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴		
K169	Crude oil tank sediment from petroleum refining operations.	Selenium	7782-49-2	0.82	5.7 mg/L TCLP		
		Benz(a)anthracene	56-55-3	0.059	3.4		
		Benzene	71-43-2	0.14	10		
		Benzo(g,h,i)perylene	191-24-2	0.0055	1.8		
		Chrysene	218-01-9	0.059	3.4		
		Ethyl benzene	100-41-4	0.057	10		
		Fluorene	86-73-7	0.059	3.4		
		Naphthalene	91-20-3	0.059	5.6		
		Phenanthrene	81-05-8	0.059	5.6		
		Pyrene	129-00-0	0.067	8.2		
		Toluene (Methyl Benzene)	108-88-3	0.080	10		
		Xylene(s) (Total)	1330-20-7	0.32	30		
		K170	Clarified slurry oil sediment from petroleum refining operations.	Benz(a)anthracene	56-55-3	0.059	3.4
				Benzene	71-43-2	0.14	10
				Benzo(g,h,i)perylene	191-24-2	0.0055	1.8
Chrysene	218-01-9			0.059	3.4		
Dibenz(a,h)anthracene	53-70-3			0.055	8.2		
Ethyl benzene	100-41-4			0.057	10		
Fluorene	86-73-7			0.059	3.4		
Indeno(1,3,4-cd)pyrene	193-39-5			0.0055	3.4		
Naphthalene	91-20-3			0.059	5.6		
Phenanthrene	81-05-8			0.059	5.6		
Pyrene	129-00-0			0.067	8.2		
Toluene (Methyl Benzene)	108-88-3			0.080	10		
Xylene(s) (Total)	1330-20-7			0.32	30		
K171	Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media).			Benz(a)anthracene	56-55-3	0.059	3.4
				Benzene	71-43-2	0.14	10
		Chrysene	218-01-9	0.059	3.4		
		Ethyl benzene	100-41-4	0.057	10		
		Naphthalene	91-20-3	0.059	5.6		
		Phenanthrene	81-05-8	0.059	5.6		
		Pyrene	129-00-0	0.67	8.2		
		Toluene (Methyl Benzene)	108-88-3	0.080	10		
		Xylene(s) (Total)	1330-20-7	0.32	30		
		Arsenic	7740-38-2	1.4	5 mg/L TCLP		
		Nickel	7440-02-0	3.98	11.0 mg/L TCLP		
		Vanadium	7440-62-2	4.3	1.6 mg/L TCLP		

		Reactive sulfides	NA	DEACT	DEACT
K172	Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (this listing does not include inert support media.).	Reactive sulfides Benzene Ethyl benzene Toluene (Methyl Benzene) Xylene(s) (Total) Antimony Arsenic Nickel Vanadium Reactive sulfides	71-43-2 100-41-4 108-88-3 1330-20-7 7740-36-0 7740-38-2 7440-02-0 7440-62-2 NA	0.14 0.57 0.080 0.32 1.9 1.4 3.98 4.3 DEACT	10 10 10 30 1.15 mg/L TCLP 5 mg/L TCLP 11.0 mg/L TCLP 1.6 mg/L TCLP DEACT
K174	Wastewater treatment sludges from the production of ethylene dichloride or vinyl chloride monomer.	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD) 1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF) 1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF) HxCDDs (All Hexachlorodibenzo-p-dioxins) HxCDFs (All Hexachlorodibenzofurans) Hexachlorodibenzofurans 1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD) 1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF) PeCDDs (All Pentachlorodibenzo-p-dioxins) PeCDFs (All Pentachlorodibenzofurans) TCDDs (All tetrachlorodibenzo-p-dioxins) TCDFs (All tetrachlorodibenzofurans) Arsenic	35822-46-9 67562-39-4 55673-89-7 34465-46-8 55684-94-1 3268-87-9 39001-02-0 36088-22-9 30402-15-4 41903-57-5 55722-27-5 7440-36-0	0.000035 or CMBST ¹¹ 0.000035 or CMBST ¹¹ 0.000035 or CMBST ¹¹ 0.000063 or CMBST ¹¹ 0.000063 or CMBST ¹¹ 0.000063 or CMBST ¹¹ 0.000063 or CMBST ¹¹ 0.000063 or CMBST ¹¹ 0.000035 or CMBST ¹¹ 0.000063 or CMBST ¹¹ 0.000063 or CMBST ¹¹ 0.000063 or CMBST ¹¹ 0.000063 or CMBST ¹¹ 0.000063 or CMBST ¹¹ 1.4	0.0025 or CMBST ¹¹ 0.0025 or CMBST ¹¹ 0.0025 or CMBST ¹¹ 0.001 or CMBST ¹¹ 0.001 or CMBST ¹¹ 0.005 or CMBST ¹¹ 0.005 or CMBST ¹¹ 0.001 or CMBST ¹¹ 0.001 or CMBST ¹¹ 0.001 or CMBST ¹¹ 0.001 or CMBST ¹¹ 0.001 or CMBST ¹¹ 5.0 mg/L TCLP
K175	Wastewater treatment sludge from the production of vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process All K175 wastewaters	Mercury ¹² pH ¹² Mercury	7438-97-6 7438-97-6 7438-97-6	NA NA 0.15	0.025 mg/L TCLP pH≤6.0 NA
K176	Baghouse filters from the production of antimony oxide, including filters from the production of intermediates (e.g., antimony metal or crude antimony oxide)	Antimony Arsenic Cadmium Lead Mercury	7440-36-0 7440-38-2 7440-43-9 7439-92-1 7439-97-6	1.9 1.4 0.69 0.69 0.15	1.15 mg/L TCLP 5.0 mg/L TCLP 0.11 mg/L TCLP 0.75 mg/L TCLP 0.025 mg/L TCLP
K177	Slag from the production of antimony oxide that is speculatively accumulated or disposed, including slag from the production of intermediates (e.g., antimony metal or crude antimony oxide)	Antimony Arsenic Lead	7440-36-0 7440-38-2 7439-92-1	1.9 1.4 0.69	1.15 mg/L TCLP 5.0 mg/L TCLP 0.75 mg/L TCLP

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
K178	Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride-limelite process.	1,2,3,4,6,7,8- Heptachlorodibenzo- <i>p</i> -dioxin (1,2,3,4,6,7,8-HpCDD)	35822-39-4	0.000035 or CMBST ¹¹	0.0025 or CMBST ¹¹
		1,2,3,4,6,7,8- Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)	67562-39-4	0.000035 or CMBST ¹¹	0.0025 or CMBST ¹¹
		1,2,3,4,7,8,9- Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)	55673-89-7	0.000035 or CMBST ¹¹	0.0025 or CMBST ¹¹
		HxCDDs (All Hexachlorodibenzo- <i>p</i> -dioxins)	34465-46-8	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
		HxCDFs (All Hexachlorodibenzo- <i>p</i> -furans)	55684-94-1	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
		1,2,3,4,6,7,8,9- Octachlorodibenzo- <i>p</i> -dioxin (OCDD)	3268-87-9	0.000063 or CMBST ¹¹	0.005 or CMBST ¹¹
		1,2,3,4,6,7,8,9- Octachlorodibenzofuran (OCDF)	39001-02-0	0.000063 or CMBST ¹¹	0.005 or CMBST ¹¹
		PeCDDs (All Pentachlorodibenzo- <i>p</i> -dioxins)	36088-22-9	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
		PeCDFs (All Pentachlorodibenzo- <i>p</i> -furans)	30402-15-4	0.000035 or CMBST ¹¹	0.001 or CMBST ¹¹
		TCDDs (All tetrachlorodibenzo- <i>p</i> -dioxins)	41903-57-5	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
		TCDFs (All tetrachlorodibenzo- <i>p</i> -furans)	55722-27-5	0.000063 or CMBST ¹¹	0.001 or CMBST ¹¹
		Thallium	7440-28-0	1.4	0.20 mg/L TCLP

K181	Nonwastewaters from the production of dyes and/or pigments (including nonwastewaters commingled at the point of generation with nonwastewaters from other processes) that, at the point of generation, contain mass loadings of any of the constituents identified in paragraph (c) of section 261.32 that are equal to or greater than the corresponding paragraph (c) levels, as determined on a calendar year basis	Aniline o-Anisidine (2-methoxyaniline) 4-Chloroaniline p-Cresidine 2,4-Dimethylaniline (2,4-xylydine) 1,2-Phenylenediamine	62-53-3 90-04-0 106-47-8 120-71-8 95-68-1 95-54-5	0.81 0.010 0.46 0.010 0.010 CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN 0.010 (WETOX or CHOXD) fb CARBN; or CMBST	14 0.66 16 0.66 0.66 CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN 0.66 CMBST	
	P001	Warfarin, & salts, when present at concentrations greater than 0.3%	1,3-Phenylenediamine Warfarin	108-45-2 81-81-2	0.86 CMBST	
	P002	1-Acetyl-2-thiourea	1-Acetyl-2-thiourea	591-08-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
	P003	Acrolein	Acrolein	107-02-8	0.29	CMBST
	P004	Aldrin	Aldrin	309-00-2	0.021	0.066
	P005	Allyl alcohol	Allyl alcohol	107-18-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
	P006	Aluminum phosphide	Aluminum phosphide	20859-73-8	CHOXD; CHRED; or CMBST	CHOXD; CHRED; or CMBST
	P007	5-Aminomethyl 3-isoxazolol	5-Aminomethyl 3-isoxazolol	2763-96-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
	P008	4-Aminopyridine	4-Aminopyridine	504-24-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
	P009	Ammonium picrate	Ammonium picrate	131-74-8	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
	P010	Arsenic acid	Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
	P011	Arsenic pentoxide	Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
	P012	Arsenic trioxide	Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
P013	Barium cyanide	Barium Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	7440-39-3 57-12-5 57-12-5	NA 1.2 0.86	21 mg/L TCLP 590 30	

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted "mg/L TCLP", or Technology Code ⁴
		Common name	CAS ² number		
P014	Thiophenol (Benzene thiol)	Thiophenol (Benzene thiol)	108-98-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P015	Beryllium dust	Beryllium	7440-41-7	RIMETL; or RTHRM	RIMETL; or RTHRM
P016	Dichloromethyl ether (Bis(chloromethyl)ether)	Dichloromethyl ether	542-88-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P017	Bromoacetone	Bromoacetone	598-31-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P018	Brucine	Brucine	357-57-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P020	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	88-85-7	0.066	2.5
P021	Calcium cyanide	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	57-12-5 57-12-5	1.2 0.86	590 30
P022	Carbon disulfide	Carbon disulfide Carbon disulfide; alternate ⁶ standard for nonwastewaters only	75-15-0 75-15-0	3.8 NA	CMBST 4.8 mg/L TCLP
P023	Chloroacetaldehyde	Chloroacetaldehyde	107-20-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P024	p-Chloroaniline	p-Chloroaniline	106-47-8	0.46	16
P026	1-(o-Chlorophenyl)thiourea	1-(o-Chlorophenyl)thiourea	5344-82-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

P027	3-Chloropropionitrile	3-Chloropropionitrile	542-76-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P028	Benzyl chloride	Benzyl chloride	100-44-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P029	Copper cyanide	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	57-12-5 57-12-5	1.2 0.86	590 30
P030	Cyanides (soluble salts and complexes)	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	57-12-5 57-12-5	1.2 0.86	590 30
P031	Cyanogen	Cyanogen	460-19-5	CHOXD; WETOX; or CMBST	CHOXD; WETOX; or CMBST
P033	Cyanogen chloride	Cyanogen chloride	506-77-4	CHOXD; WETOX; or CMBST	CHOXD; WETOX; or CMBST
P034	2-Cyclohexyl-4,6-dinitrophenol	2-Cyclohexyl-4,6-dinitrophenol	131-89-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P036	Dichlorophenylarsine	Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
P037	Dieldrin	Dieldrin	60-57-1	0.017	0.13
P038	Diethylarsine	Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
P039	Disulfoton	Disulfoton	298-04-4	0.017	6.2
P040	0,0-Diethyl O-pyrazinyl phosphorothioate	0,0-Diethyl O-pyrazinyl phosphorothioate	297-97-2	CARBN; or CMBST	CMBST
P041	Diethyl-p-nitrophenyl phosphate	Diethyl-p-nitrophenyl phosphate	311-45-5	CARBN; or CMBST	CMBST
P042	Epinephrine	Epinephrine	51-43-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P043	Diisopropylfluorophosphate (DFFP)	Diisopropylfluorophosphate (DFFP)	55-91-4	CARBN; or CMBST	CMBST
P044	Dimethoate	Dimethoate	60-51-5	CARBN; or CMBST	CMBST
P045	Thiofanox	Thiofanox	39196-18-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Tech- nology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
P046	alpha, alpha-Dimethylphenethylamine	alpha, alpha-Dimethylphenethylamine	122-09-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P047	4,6-Dinitro-o-cresol	4,6-Dinitro-o-cresol	543-52-1	0.28	160
	4,6-Dinitro-o-cresol salts	NA	NA	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P048	2,4-Dinitrophenol	2,4-Dinitrophenol	51-28-5	0.12	160
P049	Dithiobiuret	Dithiobiuret	541-53-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P050	Endosulfan	Endosulfan I	939-98-8	0.023	0.066
		Endosulfan II	33213-6-5	0.029	0.13
		Endosulfan sulfate	1031-07-8	0.029	0.13
P051	Endrin	Endrin	72-20-8	0.0028	0.13
		Endrin aldehyde	7421-93-4	0.025	0.13
P054	Aziridine	Aziridine	151-56-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P056	Fluorine	Fluoride (measured in wastewaters only)	16984-48-8	35	ADGAS fb NEUTR
P057	Fluoroacetamide	Fluoroacetamide	640-19-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P058	Fluoroacetic acid, sodium salt	Fluoroacetic acid, sodium salt	62-74-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P059	Heptachlor	Heptachlor	76-44-8	0.0012	0.066

		Heptachlor epoxide	1024-57-3	0.016	0.066
P060	Isodrin	Isodrin	465-73-6	0.021	0.066
P062	Hexaethyl tetraphosphate	Hexaethyl tetraphosphate	757-58-4	CARBN; or CMBST	CMBST
P063	Hydrogen cyanide	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	57-12-5 57-12-5	1.2 0.86	590 30
P064	Isocyanic acid, ethyl ester	Isocyanic acid, ethyl ester	624-83-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P065	Mercury fulminate nonwastewaters, regardless of their total mercury content, that are not incinerator residues or are not residues from RMERC.	Mercury	7439-97-6	NA	IMERC
	Mercury fulminate nonwastewaters that are either incinerator residues or are residues from RMERC; and contain greater than or equal to 260 mg/kg total mercury.	Mercury	7439-97-6	NA	RMERC
	Mercury fulminate nonwastewaters that are residues from RMERC and contain less than 260 mg/kg total mercury.	Mercury	7439-97-6	NA	0.20 mg/L TCLP
	Mercury fulminate nonwastewaters that are incinerator residues and contain less than 260 mg/kg total mercury.	Mercury	7439-97-6	NA	0.025 mg/L TCLP
	All mercury fulminate wastewaters.	Mercury	7439-97-6	0.15	NA
P066	Methomyl	Methomyl	16752-77-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P067	2-Methyl-aziridine	2-Methyl-aziridine	75-55-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P068	Methyl hydrazine	Methyl hydrazine	60-34-4	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
P069	2-Methylactonitrile	2-Methylactonitrile	75-86-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P070	Aldicarb	Aldicarb	116-06-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P071	Methyl parathion	Methyl parathion	298-00-0	0.014	4.6

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
P072	1-Naphthyl-2-thiourea	1-Naphthyl-2-thiourea	86-88-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P073	Nickel carbonyl	Nickel	7440-02-0	3.98	11 mg/L TCLP
P074	Nickel cyanide	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷ Nickel	57-12-5 57-12-5 7440-02-0	1.2 0.86 3.98	590 30 11 mg/L TCLP
P075	Nicotine and salts	Nicotine and salts	54-11-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P076	Nitric oxide	Nitric oxide	10102-43-9	ADGAS	ADGAS
P077	p-Nitroaniline	p-Nitroaniline	100-01-6	0.028	28
P078	Nitrogen dioxide	Nitrogen dioxide	10102-44-0	ADGAS	ADGAS
P081	Nitroglycerin	Nitroglycerin	55-63-0	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
P082	N-Nitrosodimethylamine	N-Nitrosodimethylamine	62-75-9	0.40	2.3
P084	N-Nitrosomethylvinylamine	N-Nitrosomethylvinylamine	4549-40-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P085	Octamethylpyrophosphoramide	Octamethylpyrophosphoramide	152-16-9	CARBN; or CMBST	CMBST
P087	Osmium tetroxide	Osmium tetroxide	20816-12-0	RMETL; or RTHRM	RMETL; or RTHRM
P088	Endothall	Endothall	145-73-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P089	Parathion	Parathion	56-38-2	0.014	4.6

		Mercury	7439-97-6	NA	IMERC; or RMERC
P092	Phenyl mercuric acetate nonwastewaters, regardless of their total mercury content, that are not incinerator residues or are not residues from RMERC.	Mercury	7439-97-6	NA	RMERC
	Phenyl mercuric acetate nonwastewaters that are either incinerator residues or are residues from RMERC; and still contain greater than or equal to 260 mg/kg total mercury.	Mercury	7439-97-6	NA	0.20 mg/L TCLP
	Phenyl mercuric acetate nonwastewaters that are residues from RMERC and contain less than 260 mg/kg total mercury.	Mercury	7439-97-6	NA	0.025 mg/L TCLP
	Phenyl mercuric acetate nonwastewaters that are incinerator residues and contain less than 260 mg/kg total mercury.	Mercury	7439-97-6	0.15	NA
P093	All phenyl mercuric acetate wastewaters.	Mercury	7439-97-6	0.15	NA
	Phenylthiourea	Phenylthiourea	103-85-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P094	Phorate	Phorate	298-02-2	0.021	4.6
P095	Phosgene	Phosgene	75-44-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P096	Phosphine	Phosphine	7803-51-2	CHOXD; CHRED; or CMBST	CHOXD; CHRED; or CMBST
P097	Famphur	Famphur	52-85-7	0.017	15
P098	Potassium cyanide.	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	57-12-5 57-12-5	1.2 0.86	590 30
P099	Potassium silver cyanide	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷ Silver	57-12-5 57-12-5 7440-22-4	1.2 0.86 0.43	590 30 0.14 mg/L TCLP
P101	Ethyl cyanide (Propanenitrile)	Ethyl cyanide (Propanenitrile)	107-12-0	0.24	360
P102	Propargyl alcohol	Propargyl alcohol	107-19-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P103	Selenourea	Selenium	7782-49-2	0.82	5.7 mg/L TCLP
P104	Silver cyanide	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷ Silver	57-12-5 57-12-5 7440-22-4	1.2 0.86 0.43	590 30 0.14 mg/L TCLP

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
P105	Sodium azide	Sodium azide	26628-22-8	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
P106	Sodium cyanide	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	57-12-5 57-12-5	1.2 0.86	590 30
P108	Strychnine and salts	Strychnine and salts	57-24-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P109	Tetraethyldithiopyrophosphate	Tetraethyldithiopyrophosphate	3689-24-5	CARBIN; or CMBST	CMBST
P110	Tetraethyl lead	Lead	7439-92-1	0.69	0.75 mg/L TCLP
P111	Tetraethylpyrophosphate	Tetraethylpyrophosphate	107-49-3	CARBIN; or CMBST	CMBST
P112	Tetranitromethane	Tetranitromethane	509-14-8	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
P113	Thallic oxide	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
P114	Thallium selenite	Selenium	7782-49-2	0.82	5.7 mg/L TCLP
P115	Thallium (I) sulfate	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
P116	Thiosemicarbazide	Thiosemicarbazide	79-19-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P118	Trichloromethaneethiol	Trichloromethaneethiol	75-70-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
P119	Ammonium vanadate	Vanadium (measured in wastewaters only)	7440-62-2	4.3	STABL

P120	Vanadium pentoxide	Vanadium (measured in wastewaters only)	7440-62-2	4.3	STABL
P121	Zinc cyanide	Cyanides (Total) ⁷ Cyanides (Amenable) ⁷	57-12-5 57-12-5	1.2 0.86	590 30
P122	Zinc phosphide Zn ₃ P ₂ , when present at concentrations greater than 10%.	Zinc Phosphide	1314-84-7	CHOXD; CHRED; or CMBST	CHOXD; CHRED; or CMBST
P123	Toxaphene	Toxaphene	8001-35-2	0.0095	2.6
P127	Carbafuran	Carbafuran	1563-86-2	0.006	0.14
P128	Mexacarbate	Mexacarbate	315-18-4	0.056	1.4
P185	Tirpate ¹⁰	Tirpate	26419-73-8	0.056	0.28
P188	Physostigmine salicylate	Physostigmine salicylate	57-64-7	0.056	1.4
P189	Carbosulfan	Carbosulfan	55285-14-8	0.028	1.4
P190	Metolcarb	Metolcarb	1129-41-5	0.056	1.4
P191	Dimetilan ¹⁰	Dimetilan	644-64-4	0.056	1.4
P192	Isolan ¹⁰	Isolan	119-38-0	0.056	1.4
P194	Oxamyl	Oxamyl	23135-22-0	0.056	0.28
P196	Manganese dimethyldithiocarbamate ¹⁰	Dithiocarbamates (total)	NA	0.028	28
P197	Formparanate ¹⁰	Formparante	17702-57-7	0.056	1.4
P198	Formetanate hydrochloride	Formetanate hydrochloride	23422-53-9	0.056	1.4
P199	Methiocarb	Methiocarb	2032-65-7	0.056	1.4
P201	Promecarb	Promecarb	2631-37-0	0.056	1.4
P202	m-Cumenyl methylcarbamate	m-Cumenyl methylcarbamate	64-00-6	0.056	1.4
P203	Aldicarb sulfone	Aldicarb sulfone	1646-88-4	0.056	0.28
P204	Physostigmine	Physostigmine	57-47-6	0.056	1.4
P205	Ziram	Dithiocarbamates (total)	NA	0.028	28
U001	Acetaldehyde	Acetaldehyde	75-07-0	(WETOX or CHOXD) lb CARBN; or CMBST	CMBST

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted "mg/L TCLP", or Technology Code ⁴
		Common name	CAS ² number		
U002	Acetone	Acetone	67-64-1	0.28	160
U003	Acetonitrile	Acetonitrile Acetonitrile; alternate ⁶ standard for nonwastewaters only	75-05-8 75-05-8	5.6 NA	CMBST 38
U004	Acetophenone	Acetophenone	98-86-2	0.010	9.7
U005	2-Acetylaminofluorene	2-Acetylaminofluorene	53-96-3	0.059	140
U006	Acetyl chloride	Acetyl Chloride	75-36-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U007	Acrylamide	Acrylamide	79-06-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U008	Acrylic acid	Acrylic acid	79-10-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U009	Acrylonitrile	Acrylonitrile	107-13-1	0.24	84
U010	Mitomycin C	Mitomycin C	50-07-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U011	Amitrole	Amitrole	61-82-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U012	Aniline	Aniline	62-53-3	0.81	14
U014	Auramine	Auramine	492-80-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

U015	Azaserine	Azaserine	115-02-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U016	Benz(c)acridine	Benz(c)acridine	225-51-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U017	Benzal chloride	Benzal chloride	98-87-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U018	Benz(a)anthracene	Benz(a)anthracene	56-55-3	0.059	3.4
U019	Benzene	Benzene	71-43-2	0.14	10
U020	Benzenesulfonyl chloride	Benzenesulfonyl chloride	98-09-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U021	Benzidine	Benzidine	92-87-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U022	Benz(o)pyrene	Benz(o)pyrene	50-32-8	0.061	3.4
U023	Benzotrifluoride	Benzotrifluoride	98-07-7	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOCS; CHRED; or CMBST
U024	bis(2-Chloroethoxy)methane	bis(2-Chloroethoxy)methane	111-91-1	0.036	7.2
U025	bis(2-Chloroethyl)ether	bis(2-Chloroethyl)ether	111-44-4	0.033	6.0
U026	Chlornaphazine	Chlornaphazine	494-03-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U027	bis(2-Chloroisopropyl)ether	bis(2-Chloroisopropyl)ether	39638-32-9	0.055	7.2
U028	bis(2-Ethylhexyl) phthalate	bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
U029	Methyl bromide (Bromomethane)	Methyl bromide (Bromomethane)	74-83-9	0.11	15
U030	4-Bromophenyl phenyl ether	4-Bromophenyl phenyl ether	101-55-3	0.055	15
U031	n-Butyl alcohol	n-Butyl alcohol	71-36-3	5.6	2.6
U032	Calcium chromate	Chromium (Total)	7440-47-3	2.77	0.60 mg/L TCLP

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L, or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted "mg/L TCLP" ¹ , or Technology Code ⁴
		Common name	CAS ² number		
U033	Carbon oxyfluoride	Carbon oxyfluoride	353-50-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U034	Trichloroacetaldehyde (Chloral)	Trichloroacetaldehyde (Chloral)	75-87-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U035	Chlorambucil	Chlorambucil	305-03-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U036	Chlordane	Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
U037	Chlorobenzene	Chlorobenzene	108-90-7	0.057	60
U038	Chlorobenzilate	Chlorobenzilate	510-15-6	0.10	CMBST
U039	p-Chloro-m-cresol	p-Chloro-m-cresol	59-50-7	0.018	14
U041	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	Epichlorohydrin (1-Chloro-2,3-epoxypropane)	106-89-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U042	2-Chloroethyl vinyl ether	2-Chloroethyl vinyl ether	110-75-8	0.062	CMBST
U043	Vinyl chloride	Vinyl chloride	75-01-4	0.27	6.0
U044	Chloroform	Chloroform	67-66-3	0.046	6.0
U045	Chloromethane (Methyl chloride)	Chloromethane (Methyl chloride)	74-87-3	0.19	30
U046	Chloromethyl methyl ether	Chloromethyl methyl ether	107-30-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U047	2-Chloronaphthalene	2-Chloronaphthalene	91-58-7	0.055	5.6

U048	2-Chlorophenol	2-Chlorophenol	95-57-8	0.044	5.7
U049	4-Chloro-o-toluidine hydrochloride	4-Chloro-o-toluidine hydrochloride	3165-93-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U050	Chrysene	Chrysene	218-01-9	0.059	3.4
U051	Creosote	Naphthalene Pentachlorophenol Phenanthrene Pyrene Toluene Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations) Lead	91-20-3 87-86-5 85-01-8 129-00-0 108-88-3 1330-20-7 7439-92-1	0.059 0.089 0.059 0.067 0.080 0.32 0.69	5.6 7.4 5.6 8.2 10 30 0.75 mg/L TCLP
U052	Cresols (Cresylic acid)	o-Cresol m-Cresol (difficult to distinguish from p-cresol) p-Cresol (difficult to distinguish from m-cresol) Cresol-mixed isomers (Cresylic acid) (sum of o-, m-, and p-cresol concentrations)	95-48-7 108-39-4 106-44-5 1319-77-3	0.11 0.77 0.77 0.88	5.6 5.6 5.6 11.2
U053	Crotonaldehyde	Crotonaldehyde	4170-30-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U055	Cumene	Cumene	98-82-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U056	Cyclohexane	Cyclohexane	110-82-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U057	Cyclohexanone	Cyclohexanone Cyclohexanone; alternate 6 standard for nonwastewaters only	108-94-1 108-94-1	0.36 NA	CMBST 0.75 mg/L TCLP
U058	Cyclophosphamide	Cyclophosphamide	50-18-0	CARBN; or CMBST	CMBST
U059	Daunomycin	Daunomycin	20830-81-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U060	DDD	o,p'-DDD p,p'-DDD	53-19-0 72-54-8	0.023 0.023	0.087 0.087

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent			Nonwastewaters Concentration ⁵ in mg/kg unless noted "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number	Wastewaters Concentration ³ in mg/L; or Technology Code ⁴	
U061	DDT	o,p'-DDT p,p'-DDT o,p'-DDD p,p'-DDD o,p'-DDE p,p'-DDE	789-02-6 50-29-3 53-19-0 72-54-8 3424-82-6 72-55-9	0.0039 0.0039 0.023 0.023 0.031 0.031	0.087 0.087 0.087 0.087 0.087 0.087
U062	Diallate	Diallate	2303-16-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U063	Dibenz(a,h)anthracene	Dibenz(a,h)anthracene	53-70-3	0.055	8.2
U064	Dibenz(a,i)pyrene	Dibenz(a,i)pyrene	189-55-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U066	1,2-Dibromo-3-chloropropane	1,2-Dibromo-3-chloropropane	96-12-8	0.11	15
U067	Ethylene dibromide (1,2-Dibromoethane)	Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.028	15
U068	Dibromomethane	Dibromomethane	74-95-3	0.11	15
U069	Di-n-butyl phthalate	Di-n-butyl phthalate	84-74-2	0.057	28
U070	o-Dichlorobenzene	o-Dichlorobenzene	95-50-1	0.088	6.0
U071	m-Dichlorobenzene	m-Dichlorobenzene	541-73-1	0.036	6.0
U072	p-Dichlorobenzene	p-Dichlorobenzene	106-46-7	0.090	6.0
U073	3,3'-Dichlorobenzidine	3,3'-Dichlorobenzidine	91-94-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U074	1,4-Dichloro-2-butene	cis,1,4-Dichloro-2-butene	1476-11-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

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		trans-1,4-Dichloro-2-butene	764-41-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U075	Dichlorodifluoromethane	Dichlorodifluoromethane	75-71-8	0.23	7.2
U076	1,1-Dichloroethane	1,1-Dichloroethane	75-34-3	0.059	6.0
U077	1,2-Dichloroethane	1,2-Dichloroethane	107-06-2	0.21	6.0
U078	1,1-Dichloroethylene	1,1-Dichloroethylene	75-35-4	0.025	6.0
U079	1,2-Dichloroethylene	trans-1,2-Dichloroethylene	156-60-5	0.054	30
U080	Methylene chloride	Methylene chloride	75-09-2	0.089	30
U081	2,4-Dichlorophenol	2,4-Dichlorophenol	120-83-2	0.044	14
U082	2,6-Dichlorophenol	2,6-Dichlorophenol	87-65-0	0.044	14
U083	1,2-Dichloropropane	1,2-Dichloropropane	78-87-5	0.85	18
U084	1,3-Dichloropropylene	cis-1,3-Dichloropropylene	10061-01-5	0.036	18
		trans-1,3-Dichloropropylene	10061-02-6	0.036	18
U085	1,2:3,4-Diepoxybutane	1,2:3,4-Diepoxybutane	1464-53-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U086	N,N'-Diethylhydrazine	N,N'-Diethylhydrazine	1615-80-1	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U087	O,O-Diethyl S-methyldithiophosphate	O,O-Diethyl S-methyldithiophosphate	3288-58-2	CARBEN; or CMBST	CMBST
U088	Diethyl phthalate	Diethyl phthalate	84-66-2	0.20	28
U089	Diethyl stilbestrol	Diethyl stilbestrol	56-53-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U090	Dihydrostilrole	Dihydrostilrole	94-58-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U091	3,3'-Dimethoxybenzidine	3,3'-Dimethoxybenzidine	119-90-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
U092	Dimethylamine	Dimethylamine	124-40-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U093	p-Dimethylaminoazobenzene	p-Dimethylaminoazobenzene	60-11-7	0.13	CMBST
U094	7,12-Dimethylbenz(a)anthracene	7,12-Dimethylbenz(a)anthracene	57-97-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U095	3,3'-Dimethylbenzidine	3,3'-Dimethylbenzidine	119-93-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U096	alpha, alpha-Dimethyl benzyl hydroperoxide	alpha, alpha-Dimethyl benzyl hydroperoxide	80-15-9	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U097	Dimethylcarbamoyl chloride	Dimethylcarbamoyl chloride	79-44-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U098	1,1-Dimethylhydrazine	1,1-Dimethylhydrazine	57-14-7	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U099	1,2-Dimethylhydrazine	1,2-Dimethylhydrazine	540-73-8	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U101	2,4-Dimethylphenol	2,4-Dimethylphenol	105-67-9	0.036	14
U102	Dimethyl phthalate	Dimethyl phthalate	131-11-3	0.047	28
U103	Dimethyl sulfate	Dimethyl sulfate	77-78-1	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U105	2,4-Dinitrotoluene	2,4-Dinitrotoluene	121-14-2	0.32	140

U106	2,6-Dinitrotoluene	2,6-Dinitrotoluene	606-20-2	0.55	28
U107	Di-n-octyl phthalate	Di-n-octyl phthalate	117-84-0	0.017	28
U108	1,4-Dioxane	1,4-Dioxane	123-91-1	(WETOX or CHOXD) fb CARBN; or CMBST 12.0	CMBST
U109	1,2-Diphenylhydrazine	1,4-Dioxane, alternate ⁶ 1,2-Diphenylhydrazine	123-91-1	CHOXD; CHRED; CARBN; BIODG; or CMBST 0.087	170 CHOXD; CHRED; or CMBST NA
U110	Dipropylamine	Dipropylamine	142-84-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U111	Di-n-propylnitrosamine	Di-n-propylnitrosamine	621-64-7	0.40	14
U112	Ethyl acetate	Ethyl acetate	141-78-6	0.34	33
U113	Ethyl acrylate	Ethyl acrylate	140-88-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U114	Ethylenebis(ithiocarbamic acid salts and esters	Ethylenebis(ithiocarbamic acid	111-54-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U115	Ethylene oxide	Ethylene oxide	75-21-8	(WETOX or CHOXD) fb CARBN; or CMBST 0.12	CHOXD; or CMBST NA
U116	Ethylene thiourea	Ethylene oxide; alternate ⁶ standard for wastewaters only Ethylene thiourea	96-45-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U117	Ethyl ether	Ethyl ether	60-29-7	0.12	160
U118	Ethyl methacrylate	Ethyl methacrylate	97-63-2	0.14	160
U119	Ethyl methane sulfonate	Ethyl methane sulfonate	62-50-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U120	Fluoranthene	Fluoranthene	206-44-0	0.068	3.4

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		CAS ² number	Wastewaters Concentration ³ in mg/L; or Tech ⁴ nology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted "mg/L TCLP"; or Technology Code ⁴
		Common name				
U121	Trichlorofluoromethane	Trichlorofluoromethane		75-69-4	0.020	30
U122	Formaldehyde	Formaldehyde		50-00-0	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U123	Formic acid	Formic acid		64-18-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U124	Furan	Furan		110-00-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U125	Furfural	Furfural		98-01-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U126	Glycidyaldehyde	Glycidyaldehyde		765-34-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U127	Hexachlorobenzene	Hexachlorobenzene		118-74-1	0.055	10
U128	Hexachlorobutadiene	Hexachlorobutadiene		87-68-3	0.065	5.6
U129	Lindane	alpha-BHC beta-BHC delta-BHC gamma-BHC (Lindane)		319-84-6 319-85-7 319-86-8 58-89-9	0.00014 0.00014 0.023 0.0017	0.066 0.066 0.066 0.066
U130	Hexachlorocyclopentadiene	Hexachlorocyclopentadiene		77-47-4	0.057	2.4
U131	Hexachloroethane	Hexachloroethane		67-72-1	0.055	30
U132	Hexachlorophene	Hexachlorophene		70-30-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

U133	Hydrazine	Hydrazine	302-01-2	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST
U134	Hydrogen fluoride	Fluoride (measured in wastewaters only)	7664-39-3	35	ADGAS lb NEUTR; or NEUTR
U135	Hydrogen Sulfide	Hydrogen Sulfide	7783-06-4	CHOXD; CHRED; or CMBST	CHOXD; CHRED; or CMBST
U136	Cacodylic acid	Arsenic	7440-38-2	1.4	5.0 mg/L TCLP
U137	Indeno(1,2,3-c,d)pyrene	Indeno(1,2,3-cd)pyrene	193-39-5	0.0055	3.4
U138	Iodomethane	Iodomethane	74-88-4	0.19	65
U140	Isobutyl alcohol	Isobutyl alcohol	78-83-1	5.6	170
U141	Isosafrole	Isosafrole	120-58-1	0.081	2.6
U142	Kepone	Kepone	143-50-8	0.0011	0.13
U143	Lasiocarpine	Lasiocarpine	303-34-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U144	Lead acetate	Lead	7439-92-1	0.69	0.75 mg/L TCLP
U145	Lead phosphate	Lead	7439-92-1	0.69	0.75 mg/L TCLP
U146	Lead subacetate	Lead	7439-92-1	0.69	0.75 mg/L TCLP
U147	Maleic anhydride	Maleic anhydride	108-31-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U148	Maleic hydrazide	Maleic hydrazide	123-33-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U149	Malononitrile	Malononitrile	109-77-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U150	Melphalan	Melphalan	148-82-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U151	U151 (mercury) nonwastewaters that contain greater than or equal to 260 mg/kg total mercury.	Mercury	7439-97-6	NA	RMERC

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent			Nonwastewaters Concentration ⁵ in mg/kg unless noted "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number	Wastewaters Concentration ³ in mg/L; or Technology Code ⁴	
	U151 (mercury) nonwastewaters that contain less than 260 mg/kg total mercury and that are residues from RMERC only.	Mercury	7439-97-6	NA	0.20 mg/L TCLP
	U151 (mercury) nonwastewaters that contain less than 260 mg/kg total mercury and that are not residues from RMERC.	Mercury	7439-97-6	NA	0.025 mg/L TCLP
	All U151 (mercury) wastewaters.	Mercury	7439-97-6	0.15	NA
	Elemental Mercury Contaminated with Radioactive Materials	Mercury	7439-97-6	NA	AMLGM
U152	Methacrylonitrile	Methacrylonitrile	126-98-7	0.24	84
U153	Methanethiol	Methanethiol	74-93-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U154	Methanol	Methanol	67-56-1	(WETOX or CHOXD) fb CARBN; or CMBST 5.6	CMBST 0.75 mg/L TCLP
U155	Methapyriene	Methapyriene	91-80-5	0.081	1.5
U156	Methyl chlorocarbonate	Methyl chlorocarbonate	79-22-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U157	3-Methylolanthrene	3-Methylolanthrene	56-49-5	0.0055	15
U158	4,4'-Methylene bis(2-chloroaniline)	4,4'-Methylene bis(2-chloroaniline)	101-14-4	0.50	30
U159	Methyl ethyl ketone	Methyl ethyl ketone	78-93-3	0.28	36
U160	Methyl ethyl ketone peroxide	Methyl ethyl ketone peroxide	1338-23-4	CHOXD; CHRED; CARBN; BIODG; or CMBST	CHOXD; CHRED; or CMBST

U161	Methyl isobutyl ketone	Methyl isobutyl ketone	108-10-1	0.14	33
U162	Methyl methacrylate	Methyl methacrylate	80-62-6	0.14	160
U163	N-Methyl N'-nitro N-nitrosoguanidine	N-Methyl N'-nitro N-nitrosoguanidine	70-25-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U164	Methylthiouracil	Methylthiouracil	56-04-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U165	Naphthalene	Naphthalene	91-20-3	0.059	5.6
U166	1,4-Naphthoquinone	1,4-Naphthoquinone	130-15-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U167	1-Naphthylamine	1-Naphthylamine	134-32-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U168	2-Naphthylamine	2-Naphthylamine	91-59-8	0.52	CMBST
U169	Nitrobenzene	Nitrobenzene	98-95-3	0.068	14
U170	p-Nitrophenol	p-Nitrophenol	100-02-7	0.12	29
U171	2-Nitropropane	2-Nitropropane	79-46-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U172	N-Nitrosodi-n-butylamine	N-Nitrosodi-n-butylamine	924-16-3	0.040	17
U173	N-Nitrosodietanolamine	N-Nitrosodietanolamine	1116-54-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U174	N-Nitrosodiethylamine	N-Nitrosodiethylamine	55-18-5	0.40	28
U176	N-Nitroso-N-ethylurea	N-Nitroso-N-ethylurea	759-73-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U177	N-Nitroso-N-methylurea	N-Nitroso-N-methylurea	684-93-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters	Nonwastewaters
		Common name	CAS ² number		
U178	N-Nitroso-N-methylurethane	N-Nitroso-N-methylurethane	615-53-2	(WETOX or CHOXD) fb CARBN; or CMBST	Concentration ⁵ in mg/kg unless noted as "mg/L, TOLP"; or Technology Code ⁴ CMBST
U179	N-Nitrosopiperidine	N-Nitrosopiperidine	100-75-4	0.013	35
U180	N-Nitrosopyrrolidine	N-Nitrosopyrrolidine	930-55-2	0.013	35
U181	5-Nitro-o-toluidine	5-Nitro-o-toluidine	99-55-8	0.32	28
U182	Paraldehyde	Paraldehyde	123-63-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U183	Pentachlorobenzene	Pentachlorobenzene	608-93-5	0.055	10
U184	Pentachloroethane	Pentachloroethane	76-01-7	(WETOX or CHOXD) fb CARBN; or CMBST 0.055	CMBST 6.0
U185	Pentachloronitrobenzene	Pentachloronitrobenzene	82-68-8	0.055	4.8
U186	1,3-Pentadiene	1,3-Pentadiene	504-60-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U187	Phenacetin	Phenacetin	62-44-2	0.081	16
U188	Phenol	Phenol	108-95-2	0.039	6.2
U189	Phosphorus sulfide	Phosphorus sulfide	1314-80-3	CHOXD; CHRED; or CMBST	CHOXD; CHRED; or CMBST
U190	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	100-21-0	0.055	28

		Phthalic anhydride (measured as Phthalic acid or Terephthalic acid)	85-44-9	0.055	28
U191	2-Picoline		109-06-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U192	Pronamide		23950-58-5	0.093	1.5
U193	1,3-Propane sultone	1,3-Propane sultone	1120-71-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U194	n-Propylamine	n-Propylamine	107-10-8	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U196	Pyridine	Pyridine	110-86-1	0.014	16
U197	p-Benzoquinone	p-Benzoquinone	106-51-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U200	Reserpine	Reserpine	50-55-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U201	Resorcinol	Resorcinol	108-46-3	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U202	Saccharin and salts	Saccharin	81-07-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U203	Safrole	Safrole	94-59-7	0.081	22
U204	Selenium dioxide	Selenium	7782-49-2	0.82	5.7 mg/L TCLP
U205	Selenium sulfide	Selenium	7782-49-2	0.82	5.7 mg/L TCLP
U206	Streptozotocin	Streptozotocin	18883-66-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U207	1,2,4,5-Tetrachlorobenzene	1,2,4,5-Tetrachlorobenzene	95-94-5	0.055	14
U208	1,1,1,2-Tetrachloroethane	1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0
U209	1,1,2,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	79-34-5	0.057	6.0

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Technology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted as "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
U210	Tetrachloroethylene	Tetrachloroethylene	127-18-4	0.056	6.0
U211	Carbon tetrachloride	Carbon tetrachloride	56-23-5	0.057	6.0
U213	Tetrahydrofuran	Tetrahydrofuran	109-99-9	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U214	Thallium (I) acetate	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
U215	Thallium (I) carbonate	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
U216	Thallium (I) chloride	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
U217	Thallium (I) nitrate	Thallium (measured in wastewaters only)	7440-28-0	1.4	RTHRM; or STABL
U218	Thioacetamide	Thioacetamide	62-55-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U219	Thiourea	Thiourea	62-56-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U220	Toluene	Toluene	108-88-3	0.080	10
U221	Toluenediamine	Toluenediamine	25376-45-8	CARBN; or CMBST	CMBST
U222	o-Toluidine hydrochloride	o-Toluidine hydrochloride	636-21-5	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U223	Toluene diisocyanate	Toluene diisocyanate	26471-62-5	CARBN; or CMBST	CMBST
U225	Bromoform (Tribromomethane)	Bromoform (Tribromomethane)	75-25-2	0.63	15

U226	1,1,1-Trichloroethane	1,1,1-Trichloroethane	71-55-6	0.054	6.0
U227	1,1,2-Trichloroethane	1,1,2-Trichloroethane	79-00-5	0.054	6.0
U228	Trichloroethylene	Trichloroethylene	79-01-6	0.054	6.0
U234	1,3,5-Trinitrobenzene	1,3,5-Trinitrobenzene	99-35-4	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U235	tris-(2,3-Dibromopropyl)-phosphate	tris-(2,3-Dibromopropyl)-phosphate	126-72-7	0.11	0.10
U236	Trypan Blue	Trypan Blue	72-57-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U237	Uracil mustard	Uracil mustard	66-75-1	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U238	Urethane (Ethyl carbamate)	Urethane (Ethyl carbamate)	51-79-6	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U239	Xylenes	Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
U240	2,4-D (2,4-Dichlorophenoxyacetic acid)	2,4-D(2,4-Dichlorophenoxyacetic acid)	94-75-7	0.72	10
U243	Hexachloropropylene	Hexachloropropylene	1888-71-7	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U244	Thiram	Thiram	137-26-8	(WETOX or CHOXD) fb CARBN; or CMBST	30
U246	Cyanogen bromide	Cyanogen bromide	506-68-3	CHOXD; WETOX; or CMBST	CHOXD; WETOX; or CMBST
U247	Methoxychlor	Methoxychlor	72-43-5	0.25	0.18
U248	Warfarin, & salts, when present at concentrations of 0.3% or less	Warfarin	81-81-2	(WETOX or CHOXD) fb CARBN; or CMBST	CMBST
U249	Zinc phosphide, Zn ₃ P ₂ , when present at concentrations of 10% or less	Zinc Phosphide	1314-84-7	CHOXD; CHRED; or CMBST	CHOXD; CHRED; or CMBST

TREATMENT STANDARDS FOR HAZARDOUS WASTES—Continued
 [Note: NA means not applicable]

Waste code	Waste description and treatment/Regulatory subcategory ¹	Regulated hazardous constituent		Wastewaters Concentration ³ in mg/L; or Tech- nology Code ⁴	Nonwastewaters Concentration ⁵ in mg/kg unless noted "mg/L TCLP"; or Technology Code ⁴
		Common name	CAS ² number		
U271	Benomyl	Benomyl	17804-35-2	0.056	1.4
U278	Bendiocarb	Bendiocarb	22781-23-3	0.056	1.4
U279	Carbaryl	Carbaryl	63-25-2	0.006	0.14
U280	Barban	Barban	101-27-9	0.056	1.4
U328	o-Toluidine	o-Toluidine	95-53-4	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	CMBST
U353	p-Toluidine	p-Toluidine	106-49-0	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	CMBST
U359	2-Ethoxyethanol	2-Ethoxyethanol	110-80-5	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	CMBST
U364	Bendiocarb phenol ¹⁰	Bendiocarb phenol	22961-82-6	0.056	1.4
U367	Carbofuran phenol	Carbofuran phenol	1563-38-8	0.056	1.4
U372	Carbendazim	Carbendazim	10605-21-7	0.056	1.4
U373	Propham	Propham	122-42-9	0.056	1.4
U387	Prosulfocarb	Prosulfocarb	52888-80-9	0.042	1.4
U389	Triallate	Triallate	2303-17-5	0.042	1.4
U394	A2213 ¹⁰	A2213	30558-43-1	0.042	1.4
U395	Diethylene glycol, dicarbamate ¹⁰	Diethylene glycol, dicarbamate	5952-26-1	0.056	1.4

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U404	Triethylamine	Triethylamine	121-44-8	0.081	1.5
U409	Thiophanate-methyl	Thiophanate-methyl	23564-05-8	0.056	1.4
U410	Thiodicarb	Thiodicarb	59669-26-0	0.019	1.4
U411	Propoxur	Propoxur	114-26-1	0.056	1.4

FOOTNOTES TO TREATMENT STANDARD TABLE 268.40

- 1 The waste descriptions provided in this table do not replace waste descriptions in 40 CFR 261. Descriptions of Treatment/Regulatory Subcategories are provided, as needed, to distinguish between applicability of different standards.
- 2 CAS means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
- 3 Concentration standards for wastewaters are expressed in mg/L and are based on analysis of composite samples.
- 4 All treatment standards expressed as a Technology Code or combination of Technology Codes are explained in detail in 40 CFR 268.42 Table 1—Technology Codes and Descriptions of Technology-Based Standards.
- 5 Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of 40 CFR Part 264 Subpart O or Part 265 Subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples.
- 6 Where an alternate treatment standard or set of alternate standards has been indicated, a facility may comply with this alternate standard, but only for the Treatment/Regulatory Subcategory or physical form (i.e., wastewater and/or nonwastewater) specified for that alternate standard.
- 7 Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010C or 9012B, found in “Test Methods’ for Evaluating Solid Waste, Physical/Chemical Methods,” EPA Publication SW–846, as incorporated by reference in 40 CFR 260.11, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.
- 8 These wastes, when rendered nonhazardous and then subsequently managed in CWA, or CWA-equivalent systems are not subject to treatment standards. (See §268.1(c)(3) and (4)).
- 9 These wastes, when rendered nonhazardous and then subsequently injected in a Class SDWA well, are not subject to treatment standards. (See § 148.1(d)).
- 10 The treatment standard for this waste may be satisfied by either meeting the constituent concentrations in this table or by treating the waste by the specified technologies: combustion, as defined by the technology code CMBST at §268.42 Table 1 of this Part, for nonwastewaters; and biodegradation as defined by the technology code BIODG, carbon adsorption as defined by the technology code CARBN, chemical oxidation as defined by the technology code CHOXD, or combustion as defined as technology code CMBST at §268.42 Table 1 of this Part, for wastewaters.
- 11 For these wastes, the definition of CMBST is limited to: (1) combustion units operating under 40 CFR 266, (2) combustion units permitted under 40 CFR Part 264, Subpart O, or (3) combustion units operating under 40 CFR 265, Subpart O, which have obtained a determination of equivalent treatment under 268.42(b).
- 12 Disposal of K175 wastes that have complied with all applicable 40 CFR 268.40 treatment standards must also be macroencapsulated in accordance with 40 CFR 268.45 Table 1 unless the waste is placed in:
 - (1) A Subtitle C monofill containing only K175 wastes that meet all applicable 40 CFR 268.40 treatment standards; or
 - (2) A dedicated Subtitle C landfill cell in which all other wastes being co-disposed are at pH≤6.0.

[59 FR 48046, Sept. 19, 1994]

EDITORIAL NOTE: For FEDERAL REGISTER citations affecting §268.40, see the List of CFR Sections Affected, which appears in the Finding Aids section of the printed volume and on GPO Access.

§ 268.41 Treatment standards expressed as concentrations in waste extract.

For the requirements previously found in this section and for treatment

standards in Table CCWE—Constituent Concentrations in Waste Extracts, refer to §268.40.

[59 FR 48103, Sept. 19, 1994]

TABLE 1—ALTERNATIVE TREATMENT STANDARDS FOR HAZARDOUS DEBRIS¹—Continued

Technology description	Performance and/or design and operating standard	Contaminant restrictions ²
<p>3. <i>Sealing:</i> Application of an appropriate material which adheres tightly to the debris surface to avoid exposure of the surface to potential leaching media. When necessary to effectively seal the surface, sealing entails pretreatment of the debris surface to remove foreign matter and to clean and roughen the surface. Sealing materials include epoxy, silicone, and urethane compounds, but paint may not be used as a sealant.</p>	<p>Sealing must avoid exposure of the debris surface to potential leaching media and sealant must be resistant to degradation by the debris and its contaminants and materials into which it may come into contact after placement (leachate, other waste, microbes).</p>	<p>None.</p>

¹ Hazardous debris must be treated by either these standards or the waste-specific treatment standards for the waste contaminating the debris. The treatment standards must be met for each type of debris contained in a mixture of debris types, unless the debris is converted into treatment residue as a result of the treatment process. Debris treatment residuals are subject to the waste-specific treatment standards for the waste contaminating the debris.

² Contaminant restriction means that the technology is not BDAT for that contaminant. If debris containing a restricted contaminant is treated by the technology, the contaminant must be subsequently treated by a technology for which it is not restricted in order to be land disposed (and excluded from Subtitle C regulation).

³ "Clean debris surface" means the surface, when viewed without magnification, shall be free of all visible contaminated soil and hazardous waste except that residual staining from soil and waste consisting of light shadows, slight streaks, or minor discolorations, and soil and waste in cracks, crevices, and pits may be present provided that such staining and waste and soil in cracks, crevices, and pits shall be limited to no more than 5% of each square inch of surface area.

⁴ Acids, solvents, and chemical reagents may react with some debris and contaminants to form hazardous compounds. For example, acid washing of cyanide-contaminated debris could result in the formation of hydrogen cyanide. Some acids may also react violently with some debris and contaminants, depending on the concentration of the acid and the type of debris and contaminants. Debris treaters should refer to the safety precautions specified in Material Safety Data Sheets for various acids to avoid applying an incompatible acid to a particular debris/contaminant combination. For example, concentrated sulfuric acid may react violently with certain organic compounds, such as acrylonitrile.

⁵ If reducing the particle size of debris to meet the treatment standards results in material that no longer meets the 60 mm minimum particle size limit for debris, such material is subject to the waste-specific treatment standards for the waste contaminating the material, unless the debris has been cleaned and separated from contaminated soil and waste prior to size reduction. At a minimum, simple physical or mechanical means must be used to provide such cleaning and separation of nondebris materials to ensure that the debris surface is free of caked soil, waste, or other nondebris material.

⁶ Dioxin-listed wastes are EPA Hazardous Waste numbers FO20, FO21, FO22, FO23, FO26, and FO27.

⁷ Thermal desorption is distinguished from Thermal Destruction in that the primary purpose of Thermal Desorption is to volatilize contaminants and to remove them from the treatment chamber for subsequent destruction or other treatment.

⁸ The demonstration "Equivalent Technology" under §268.42(b) must document that the technology treats contaminants subject to treatment to a level equivalent to that required by the performance and design and operating standards for other technologies in this table such that residual levels of hazardous contaminants will not pose a hazard to human health and the environment absent management controls.

⁹ Any soil, waste, and other nondebris material that remains on the debris surface (or remains mixed with the debris) after treatment is considered a treatment residual that must be separated from the debris using, at a minimum, simple physical or mechanical means. Examples of simple physical or mechanical means are vibratory or trommel screening or water washing. The debris surface need not be cleaned to a "clean debris surface" as defined in note 3 when separating treated debris from residue; rather, the surface must be free of caked soil, waste, or other nondebris material. Treatment residuals are subject to the waste-specific treatment standards for the waste contaminating the debris.

[57 FR 37277, Aug. 18, 1992, as amended at 59 FR 48103, Sept. 19, 1994; 63 FR 28738, May 26, 1998; 71 FR 40279, July 14, 2006]

§ 268.46 Alternative treatment standards based on HTMR.

For the treatment standards previously found in this section, refer to §268.40.

[59 FR 48103, Sept. 19, 1994]

§ 268.48 Universal treatment standards.

(a) Table UTS identifies the hazardous constituents, along with the

nonwastewater and wastewater treatment standard levels, that are used to regulate most prohibited hazardous wastes with numerical limits. For determining compliance with treatment standards for underlying hazardous constituents as defined in §268.2(i), these treatment standards may not be exceeded. Compliance with these treatment standards is measured by an analysis of grab samples, unless otherwise noted in the following Table UTS.

UNIVERSAL TREATMENT STANDARDS

[Note: NA means not applicable]

Regulated constituent common name	CAS ¹ number	Wastewater standard	Nonwastewater standard
		Concentration ² in mg/l	Concentration ³ in mg/kg unless noted as "mg/l TCLP"
<i>Organic Constituents</i>			
Acenaphthylene	208–96–8	0.059	3.4
Acenaphthene	83–32–9	0.059	3.4
Acetone	67–64–1	0.28	160
Acetonitrile	75–05–8	5.6	38
Acetophenone	96–86–2	0.010	9.7
2-Acetylaminofluorene	53–96–3	0.059	140
Acrolein	107–02–8	0.29	NA
Acrylamide	79–06–1	19	23
Acrylonitrile	107–13–1	0.24	84
Aldicarb sulfone ⁶	1646–88–4	0.056	0.28
Aldrin	309–00–2	0.021	0.066
4-Aminobiphenyl	92–67–1	0.13	NA
Aniline	62–53–3	0.81	14
o-Anisidine (2-methoxyaniline)	90–04–0	0.010	0.66
Anthracene	120–12–7	0.059	3.4
Aramite	140–57–8	0.36	NA
alpha-BHC	319–84–6	0.00014	0.066
beta-BHC	319–85–7	0.00014	0.066
delta-BHC	319–86–8	0.023	0.066
gamma-BHC	58–89–9	0.0017	0.066
Barban ⁶	101–27–9	0.056	1.4
Bendiocarb ⁶	22781–23–3	0.056	1.4
Benomyl ⁶	17804–35–2	0.056	1.4
Benzene	71–43–2	0.14	10
Benz(a)anthracene	56–55–3	0.059	3.4
Benzal chloride	98–87–3	0.055	6.0
Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene)	205–99–2	0.11	6.8
Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene)	207–08–9	0.11	6.8
Benzo(g,h,i)perylene	191–24–2	0.0055	1.8
Benzo(a)pyrene	50–32–8	0.061	3.4
Bromodichloromethane	75–27–4	0.35	15
Bromomethane/Methyl bromide	74–83–9	0.11	15
4-Bromophenyl phenyl ether	101–55–3	0.055	15

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UNIVERSAL TREATMENT STANDARDS—Continued

[Note: NA means not applicable]

Regulated constituent common name	CAS ¹ number	Wastewater standard	Nonwastewater standard
		Concentration ² in mg/l	Concentration ³ in mg/kg unless noted as "mg/l TCLP"
n-Butyl alcohol	71-36-3	5.6	2.6
Butylate ⁶	2008-41-5	0.042	1.4
Butyl benzyl phthalate	85-68-7	0.017	28
2-sec-Butyl-4,6-dinitrophenol/Dinoseb	88-85-7	0.066	2.5
Carbaryl ⁶	63-25-2	0.006	0.14
Carbenzadim ⁶	10605-21-7	0.056	1.4
Carbofuran ⁶	1563-66-2	0.006	0.14
Carbofuran phenol ⁶	1563-38-8	0.056	1.4
Carbon disulfide	75-15-0	3.8	4.8 mg/l TCLP
Carbon tetrachloride	56-23-5	0.057	6.0
Carbosulfan ⁶	55285-14-8	0.028	1.4
Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
p-Chloroaniline	106-47-8	0.46	16
Chlorobenzene	108-90-7	0.057	6.0
Chlorobenzilate	510-15-6	0.10	NA
2-Chloro-1,3-butadiene	126-99-8	0.057	0.28
Chlorodibromomethane	124-48-1	0.057	15
Chloroethane	75-00-3	0.27	6.0
bis(2-Chloroethoxy)methane	111-91-1	0.036	7.2
bis(2-Chloroethyl)ether	111-44-4	0.033	6.0
Chloroform	67-66-3	0.046	6.0
bis(2-Chloroisopropyl)ether	39638-32-9	0.055	7.2
p-Chloro-m-cresol	59-50-7	0.018	14
2-Chloroethyl vinyl ether	110-75-8	0.062	NA
Chloromethane/Methyl chloride	74-87-3	0.19	30
2-Chloronaphthalene	91-58-7	0.055	5.6
2-Chloropchenol	95-57-8	0.044	5.7
3-Chloropropylene	107-05-1	0.036	30
Chrysene	218-01-9	0.059	3.4
p-Cresidine	120-71-8	0.010	0.66
o-Cresol	95-48-7	0.11	5.6
m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77	5.6
p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
m-Cumenyl methylcarbamate ⁶	64-00-6	0.056	1.4

UNIVERSAL TREATMENT STANDARDS—Continued

[Note: NA means not applicable]

Regulated constituent common name	CAS ¹ number	Wastewater standard	Nonwastewater standard
		Concentration ² in mg/l	Concentration ³ in mg/kg unless noted as "mg/l TCLP"
Cyclohexanone	108–94–1	0.36	0.75 mg/l TCLP
o,p'-DDD	53–19–0	0.023	0.087
p,p'-DDD	72–54–8	0.023	0.087
o,p'-DDE	3424–82–6	0.031	0.087
p,p'-DDE	72–55–9	0.031	0.087
o,p'-DDT	789–02–6	0.0039	0.087
p,p'-DDT	50–29–3	0.0039	0.087
Dibenz(a,h)anthracene	53–70–3	0.055	8.2
Dibenz(a,e)pyrene	192–65–4	0.061	NA
1,2-Dibromo-3-chloropropane	96–12–8	0.11	15
1,2-Dibromoethane/Ethylene dibromide	106–93–4	0.028	15
Dibromomethane	74–95–3	0.11	15
m-Dichlorobenzene	541–73–1	0.036	6.0
o-Dichlorobenzene	95–50–1	0.088	6.0
p-Dichlorobenzene	106–46–7	0.090	6.0
Dichlorodifluoromethane	75–71–8	0.23	7.2
1,1-Dichloroethane	75–34–3	0.059	6.0
1,2-Dichloroethane	107–06–2	0.21	6.0
1,1-Dichloroethylene	75–35–4	0.025	6.0
trans-1,2-Dichloroethylene	156–60–5	0.054	30
2,4-Dichlorophenol	120–83–2	0.044	14
2,6-Dichlorophenol	87–65–0	0.044	14
2,4-Dichlorophenoxyacetic acid/2,4-D	94–75–7	0.72	10
1,2-Dichloropropane	78–87–5	0.85	18
cis-1,3-Dichloropropylene	10061–01–5	0.036	18
trans-1,3-Dichloropropylene	10061–02–6	0.036	18
Dieldrin	60–57–1	0.017	0.13
Diethyl phthalate	84–66–2	0.20	28
p-Dimethylaminoazobenzene	60–11–7	0.13	NA
2,4-Dimethylaniline (2,4-xylidine)	95–68–1	0.010	0.66
2,4-Dimethyl phenol	105–67–9	0.036	14
Dimethyl phthalate	131–11–3	0.047	28
Di-n-butyl phthalate	84–74–2	0.057	28
1,4-Dinitrobenzene	100–25–4	0.32	2.3

UNIVERSAL TREATMENT STANDARDS—Continued

[Note: NA means not applicable]

Regulated constituent common name	CAS ¹ number	Wastewater standard	Nonwastewater standard
		Concentration ² in mg/l	Concentration ³ in mg/kg unless noted as "mg/l TCLP"
4,6-Dinitro-o-cresol	534-52-1	0.28	160
2,4-Dinitrophenol	51-28-5	0.12	160
2,4-Dinitrotoluene	121-14-2	0.32	140
2,6-Dinitrotoluene	606-20-2	0.55	28
Di-n-octyl phthalate	117-84-0	0.017	28
Di-n-propylnitrosamine	621-64-7	0.40	14
1,4-Dioxane	123-91-1	12.0	170
Diphenylamine (difficult to distinguish from diphenylnitrosamine)	122-39-4	0.92	13
Diphenylnitrosamine (difficult to distinguish from diphenylamine)	86-30-6	0.92	13
1,2-Diphenylhydrazine	122-66-7	0.087	NA
Disulfoton	298-04-4	0.017	6.2
Dithiocarbamates (total) ⁶	NA	0.028	28
Endosulfan I	959-98-8	0.023	0.066
Endosulfan II	33213-65-9	0.029	0.13
Endosulfan sulfate	1031-07-8	0.029	0.13
Endrin	72-20-8	0.0028	0.13
Endrin aldehyde	7421-93-4	0.025	0.13
EPTC ⁶	759-94-4	0.042	1.4
Ethyl acetate	141-78-6	0.34	33
Ethyl benzene	100-41-4	0.057	10
Ethyl cyanide/Propanenitrile	107-12-0	0.24	360
Ethyl ether	60-29-7	0.12	160
bis(2-Ethylhexyl)phthalate	117-81-7	0.28	28
Ethyl methacrylate	97-63-2	0.14	160
Ethylene oxide	75-21-8	0.12	NA
Famphur	52-85-7	0.017	15
Fluoranthene	206-44-0	0.068	3.4
Fluorene	86-73-7	0.059	3.4
Formetanate hydrochloride ⁶	23422-53-9	0.056	1.4
Heptachlor	76-44-8	0.0012	0.066
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)	35822-46-9	0.000035	.0025
1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)	67562-39-4	0.000035	.0025
1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)	55673-89-7	0.000035	.0025
Heptachlor epoxide	1024-57-3	0.016	0.066

UNIVERSAL TREATMENT STANDARDS—Continued

[Note: NA means not applicable]

Regulated constituent common name	CAS ¹ number	Wastewater standard	Nonwastewater standard
		Concentration ² in mg/l	Concentration ³ in mg/kg unless noted as "mg/l TCLP"
Hexachlorobenzene	118-74-1	0.055	10
Hexachlorobutadiene	87-68-3	0.055	5.6
Hexachlorocyclopentadiene	77-47-4	0.057	2.4
HxCDDs (All Hexachlorodibenzo-p-dioxins)	NA	0.000063	0.001
HxCDFs (All Hexachlorodibenzofurans)	NA	0.000063	0.001
Hexachloroethane	67-72-1	0.055	30
Hexachloropropylene	1888-71-7	0.035	30
Indeno(1,2,3-c,d) pyrene	193-39-5	0.0055	3.4
Iodomethane	74-88-4	0.19	65
Isobutyl alcohol	78-83-1	5.6	170
Isodrin	465-73-6	0.021	0.066
Isosafrole	120-58-1	0.081	2.6
Kepone	143-50-0	0.0011	0.13
Methacrylonitrile	126-98-7	0.24	84
Methanol	67-56-1	5.6	0.75 mg/l TCLP
Methapyrilene	91-80-5	0.081	1.5
Methiocarb ⁶	2032-65-7	0.056	1.4
Methomyl ⁶	16752-77-5	0.028	0.14
Methoxychlor	72-43-5	0.25	0.18
3-Methylcholanthrene	56-49-5	0.0055	15
4,4-Methylene bis(2-chloroaniline)	101-14-4	0.50	30
Methylene chloride	75-09-2	0.089	30
Methyl ethyl ketone	78-93-3	0.28	36
Methyl isobutyl ketone	108-10-1	0.14	33
Methyl methacrylate	80-62-6	0.14	160
Methyl methanesulfonate	66-27-3	0.018	NA
Methyl parathion	298-00-0	0.014	4.6
Metolcarb ⁶	1129-41-5	0.056	1.4
Mexacarbate ⁶	315-18-4	0.056	1.4
Molinate ⁶	2212-67-1	0.042	1.4
Naphthalene	91-20-3	0.059	5.6
2-Naphthylamine	91-59-8	0.52	NA
o-Nitroaniline	88-74-4	0.27	14
p-Nitroaniline	100-01-6	0.028	28

UNIVERSAL TREATMENT STANDARDS—Continued

[Note: NA means not applicable]

Regulated constituent common name	CAS ¹ number	Wastewater standard	Nonwastewater standard
		Concentration ² in mg/l	Concentration ³ in mg/kg unless noted as "mg/l TCLP"
Nitrobenzene	98-95-3	0.068	14
5-Nitro-o-toluidine	99-55-8	0.32	28
o-Nitrophenol	88-75-5	0.028	13
p-Nitrophenol	100-02-7	0.12	29
N-Nitrosodiethylamine	55-18-5	0.40	28
N-Nitrosodimethylamine	62-75-9	0.40	2.3
N-Nitroso-di-n-butylamine	924-16-3	0.40	17
N-Nitrosomethylethylamine	10595-95-6	0.40	2.3
N-Nitrosomorpholine	59-89-2	0.40	2.3
N-Nitrosopiperidine	100-75-4	0.013	35
N-Nitrosopyrrolidine	930-55-2	0.013	35
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	3268-87-9	0.000063	0.005
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	39001-02-0	0.000063	0.005
Oxamyl ⁶	23135-22-0	0.056	0.28
Parathion	56-38-2	0.014	4.6
Total PCBs (sum of all PCB isomers, or all Aroclors) ⁸	1336-36-3	0.10	10
Pebulate ⁶	1114-71-2	0.042	1.4
Pentachlorobenzene	608-93-5	0.055	10
PeCDDs (All Pentachlorodibenzo-p-dioxins)	NA	0.000063	0.001
PeCDFs (All Pentachlorodibenzofurans)	NA	0.000035	0.001
Pentachloroethane	76-01-7	0.055	6.0
Pentachloronitrobenzene	82-68-8	0.055	4.8
Pentachlorophenol	87-86-5	0.089	7.4
Phenacetin	62-44-2	0.081	16
Phenanthrene	85-01-8	0.059	5.6
Phenol	108-95-2	0.039	6.2
1,3-Phenylenediamine	108-45-2	0.010	0.66
Phorate	298-02-2	0.021	4.6
Phthalic acid	100-21-0	0.055	28
Phthalic anhydride	85-44-9	0.055	28
Physostigmine ⁶	57-47-6	0.056	1.4
Physostigmine salicylate ⁶	57-64-7	0.056	1.4
Promecarb ⁶	2631-37-0	0.056	1.4
Pronamide	23950-58-5	0.093	1.5

UNIVERSAL TREATMENT STANDARDS—Continued

[Note: NA means not applicable]

Regulated constituent common name	CAS ¹ number	Wastewater standard	Nonwastewater standard
		Concentration ² in mg/l	Concentration ³ in mg/kg unless noted as "mg/l TCLP"
Propham ⁶	122-42-9	0.056	1.4
Propoxur ⁶	114-26-1	0.056	1.4
Prosulfocarb ⁶	52888-80-9	0.042	1.4
Pyrene	129-00-0	0.067	8.2
Pyridine	110-86-1	0.014	16
Safrole	94-59-7	0.081	22
Silvex/2,4,5-TP	93-72-1	0.72	7.9
1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14
TCDDs (All Tetrachlorodibenzo-p-dioxins)	NA	0.000063	0.001
TCDFs (All Tetrachlorodibenzofurans)	NA	0.000063	0.001
1,1,1,2-Tetrachloroethane	630-20-6	0.057	6.0
1,1,2,2-Tetrachloroethane	79-34-5	0.057	6.0
Tetrachloroethylene	127-18-4	0.056	6.0
2,3,4,6-Tetrachlorophenol	58-90-2	0.030	7.4
Thiodicarb ⁶	59669-26-0	0.019	1.4
Thiophanate-methyl ⁶	23564-05-8	0.056	1.4
Toluene	108-88-3	0.080	10
Toxaphene	8001-35-2	0.0095	2.6
Triallate ⁶	2303-17-5	0.042	1.4
Tribromomethane/Bromoform	75-25-2	0.63	15
1,2,4-Trichlorobenzene	120-82-1	0.055	19
1,1,1-Trichloroethane	71-55-6	0.054	6.0
1,1,2-Trichloroethane	79-00-5	0.054	6.0
Trichloroethylene	79-01-6	0.054	6.0
Trichlorofluoromethane	75-69-4	0.020	30
2,4,5-Trichlorophenol	95-95-4	0.18	7.4
2,4,6-Trichlorophenol	88-06-2	0.035	7.4
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T	93-76-5	0.72	7.9
1,2,3-Trichloropropane	96-18-4	0.85	30
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	0.057	30
Triethylamine ⁶	121-44-8	0.081	1.5
tris-(2,3-Dibromopropyl) phosphate	126-72-7	0.11	0.10
Vernolate ⁶	1929-77-7	0.042	1.4
Vinyl chloride	75-01-4	0.27	6.0

UNIVERSAL TREATMENT STANDARDS—Continued

[Note: NA means not applicable]

Regulated constituent common name	CAS ¹ number	Wastewater standard	Nonwastewater standard
		Concentration ² in mg/l	Concentration ³ in mg/kg unless noted as "mg/l TCLP"
Xylenes-mixed isomers (sum of o-, m-, and p-xylene concentrations)	1330-20-7	0.32	30
<i>Inorganic Constituents</i>			
Antimony	7440-36-0	1.9	1.15 mg/l TCLP
Arsenic	7440-38-2	1.4	5.0 mg/l TCLP
Barium	7440-39-3	1.2	21 mg/l TCLP
Beryllium	7440-41-7	0.82	1.22 mg/l TCLP
Cadmium	7440-43-9	0.69	0.11 mg/l TCLP
Chromium (Total)	7440-47-3	2.77	0.60 mg/l TCLP
Cyanides (Total) ⁴	57-12-5	1.2	590
Cyanides (Amenable) ⁴	57-12-5	0.86	30
Fluoride ⁵	16984-48-8	35	NA
Lead	7439-92-1	0.69	0.75 mg/l TCLP
Mercury—Nonwastewater from Retort	7439-97-6	NA	0.20 mg/l TCLP
Mercury—All Others	7439-97-6	0.15	0.025 mg/l TCLP
Nickel	7440-02-0	3.98	11 mg/l TCLP
Selenium ⁷	7782-49-2	0.82	5.7 mg/l TCLP
Silver	7440-22-4	0.43	0.14 mg/l TCLP
Sulfide ⁵	18496-25-8	14	NA
Thallium	7440-28-0	1.4	0.20 mg/l TCLP
Vanadium ⁵	7440-62-2	4.3	1.6 mg/l TCLP
Zinc ⁵	7440-66-6	2.61	4.3 mg/l TCLP

FOOTNOTES TO TABLE UTS

- 1 CAS means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
- 2 Concentration standards for wastewaters are expressed in mg/l and are based on analysis of composite samples.
- 3 Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of 40 CFR part 264, subpart O or 40 CFR part 265, subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples.
- 4 Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010C or 9012B, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.
- 5 These constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at § 268.2(i).

FOOTNOTES TO TABLE UTS—Continued

- 6 Between August 26, 1996, and March 4, 1998, these constituents are not “underlying hazardous constituents” as defined at § 268.2(i) of this Part.
- 7 This constituent is not an underlying hazardous constituent as defined at § 268.2(i) of this Part because its UTS level is greater than its TC level, thus a treatment selenium waste would always be characteristically hazardous, unless it is treated to below its characteristic level.
- 8 This standard is temporarily deferred for soil exhibiting a hazardous characteristic due to D004–D011 only.

[59 FR 48103, Sept. 19, 1994, as amended by 60 FR 302, Jan. 3, 1995; 61 FR 15654, Apr. 8 1996; 61 FR 33690, June 28, 1996; 62 FR 7596, Feb. 19, 1997; 63 FR 24626, May 4, 1998; 63 FR 28739, May 26, 1998; 63 FR 47417, Sept. 4, 1998; 64 FR 25417, May 11, 1999; 65 FR 14475, Mar. 17, 2000; 70 FR 34590, June 14, 2005; 70 FR 9178, Feb. 24, 2005; 71 FR 40279, July 14, 2006; 75 FR 13008, Mar. 18, 2010]

§ 268.49 Alternative LDR treatment standards for contaminated soil.

(a) *Applicability.* You must comply with LDRs prior to placing soil that exhibits a characteristic of hazardous waste, or exhibited a characteristic of

hazardous waste at the time it was generated, into a land disposal unit. The following chart describes whether you must comply with LDRs prior to placing soil contaminated by listed hazardous waste into a land disposal unit:

If LDRs	And if LDRs	And if	Then you
Applied to the listed waste when it contaminated the soil*.	Apply to the listed waste now.	Must comply with LDRs
Didn't apply to the listed waste when it contaminated the soil*.	Apply to the listed waste now.	The soil is determined to contain the listed waste when the soil is first generated.	Must comply with LDRs.
Didn't apply to the listed waste when it contaminated the soil*.	Apply to the listed waste now.	The soil is determined not to contain the listed waste when the soil is first generated.	Needn't comply with LDRs.
Didn't apply to the listed waste when it contaminated the soil*.	Don't apply to the listed waste now.	Needn't comply with LDRs.

* For dates of LDR applicability, see 40 CFR Part 268 Appendix VII. To determine the date any given listed hazardous waste contaminated any given volume of soil, use the last date any given listed hazardous waste was placed into any given land disposal unit or, in the case of an accidental spill, the date of the spill.

(b) Prior to land disposal, contaminated soil identified by paragraph (a) of this section as needing to comply with LDRs must be treated according to the applicable treatment standards specified in paragraph (c) of this section or according to the Universal Treatment Standards specified in 40 CFR 268.48 applicable to the contaminating listed hazardous waste and/or the applicable characteristic of hazardous waste if the soil is characteristic. The treatment standards specified in paragraph (c) of this section and the Universal Treatment Standards may be modified through a treatment variance approved in accordance with 40 CFR 268.44.

(c) *Treatment standards for contaminated soils.* Prior to land disposal, con-

taminated soil identified by paragraph (a) of this section as needing to comply with LDRs must be treated according to all the standards specified in this paragraph or according to the Universal Treatment Standards specified in 40 CFR 268.48.

(1) *All soils.* Prior to land disposal, all constituents subject to treatment must be treated as follows:

(A) For non-metals except carbon disulfide, cyclohexanone, and methanol, treatment must achieve 90 percent reduction in total constituent concentrations, except as provided by paragraph (c)(1)(C) of this section.