

Chapter NR 675

APPENDIX I

TREATMENT STANDARDS (As Concentrations in the Treatment Residual Extract)

Note: The treatment standards for F001-F006 Spent Solvent Wastes appear in ss. NR 675.21, 675.22 and 675.23.

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APPENDIX II
LIST OF HALOGENATED ORGANIC COMPOUNDS

In determining the concentration of HOCs in a hazardous waste for purposes of the California List land disposal prohibition, the following HOCs shall be included in the calculation as any compounds having a carbon-halogen bond which are listed in this Appendix. Appendix II consists of the following compounds:

Volatiles

Bromodichloromethane
Bromomethane
Carbon Tetrachloride
Chlorobenzene
2-Chloro-1,3-butadiene
Chlorodibromomethane
Chloroethane
2-Chloroethyl vinyl ether
Chloroform
Chloromethane
3-Chloropropene
1,2-Dibromo-3-chloropropane
1,2-Dibromomethane
Dibromomethane
Trans-1,4-Dichloro-2-butene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene
Trans-1,2-Dichloroethene
1,2-Dichloropropane
Trans-1,3-Dichloropropene
cis-1,3-Dichloropropene
Iodomethane
Methylene chloride
1,1,1,2-Tetrachloroethane
1,1,2,2-Tetrachloroethane
Tetrachloroethene
Tribromomethane
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichloromonofluoromethane
1,2,3-Trichloropropane
Vinyl chloride

Semivolatiles

Bis(2-chloroethoxy)ethane
Bis(2-chloroethyl)ether
Bis(2-chloroisopropyl) ether
p-Chloroaniline
Chlorobenzilate
p-Chloro-m-cresol
2-Chloronaphthalene
2-Chlorophenol
3-Chloropropionitrile
m-Dichlorobenzene
o-Dichlorobenzene
p-Dichlorobenzene
3,3'-Dichlorobenzidine
2,4-Dichlorophenol
2,6-Dichlorophenol
Hexachlorobenzene
Hexachlorobutadiene
Hexachlorocyclopentadiene
Hexachloroethane
Hexachloropropene

Hexachloropropene
4,4'-Methylenebis(2-chloroaniline)
Pentachlorobenzene
Pentachloroethane
Pentachloronitrobenzene
Pentachlorophenol
Pronamide
1,2,4,5-Tetrachlorobenzene
2,3,4,6-Tetrachlorophenol
1,2,4-Trichlorobenzene
2,4,6-Trichlorophenol
2,4,6-Trichlorophenol
Tris(2,3-dibromopropyl)phosphate

Organochlorine Pesticides

Aldrin
alpha-BHC
beta-BHC
delta-BHC
gamma-BHC
Chlordane
DDD
DDE
DDT
Dieldrin
Endosulfan I
Endosulfan II
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
Isodrin
Kepone
Methoxychlor
Toxaphene

Phenoxyacetic Acid Herbicides

2,4-Dichlorophenoxyacetic acid
Silvex 2,4,5-T

PCBs

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242/Aroclor 1248
Aroclor 1254
Aroclor 1260
PCBs not otherwise specified

Dioxins and Furans

Hexachlorodibenzo-p-dioxins
Hexachlorodibenzofuran
Pentachlorodibenzo-p-dioxins
Pentachlorodibenzofuran
Tetrachlorodibenzo-p-dioxins
Tetrachlorodibenzofuran
2,3,7,8-Tetrachlorodibenzo-p-dioxin



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APPENDIX III
ORGANOMETALLIC LAB PACKS

Hazardous waste with the following EPA hazardous waste code numbers may be placed in an "organometallic" lab pack:

P001, P002, P003, P004, P005, P006, P007, P008, P009, P013, P014, P015, P016, P017, P018, P020, P021, P022, P023, P024, P026, P027, P028, P029, P030, P031, P033, P034, P036, P037, P038, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P054, P056, P057, P058, P059, P060, P062, P063, P064, P065, P066, P067, P068, P068, P070, P071, P072, P073, P074, P075, P077, P081, P082, P084, P085, P087, P088, P089, P092, P093, P094, P095, P096, P097, P098, P099, P101, P102, P103, P104, P105, P106, P108, P109, P110, P111, P112, P113, P114, P115, P116, P118, P119, P120, P121, P122, P123

U001, U002, U003, U004, U005, U006, U007, U008, U009, U010, U011, U012, U014, U015, U016, U017, U018, U019, U020, U021, U022, U023, U024, U025, U026, U027, U028, U029, U030, U031, U032, U033, U034, U035, U036, U037, U038, U039, U041, U042, U043, U044, U045, U046, U047, U048, U049, U050, U051, U052, U053, U055, U056, U057, U058, U059, U060, U061, U062, U063, U064, U066, U067, U068, U069, U070, U071, U072, U073, U074, U075, U076, U077, U078, U079, U080, U081, U082, U083, U084, U085, U086, U087, U088, U089, U090, U091, U092, U093, U094, U095, U096, U097, U098, U099, U101, U102, U103, U105, U106, U107, U108, U109, U110, U111, U112, U113, U114, U115, U116, U117, U118, U119, U120, U121, U122,

U123, U124, U125, U126, U127, U128, U129, U130, U131, U132, U133, U134, U135, U136, U137, U138, U140, U141, U142, U143, U144, U145, U146, U147, U148, U149, U150, U152, U153, U154, U155, U156, U157, U158, U159, U160, U161, U162, U163, U164, U165, U166, U167, U168, U169, U170, U171, U172, U173, U174, U176, U177, U178, U179, U180, U181, U182, U183, U184, U185, U186, U187, U188, U189, U190, U191, U192, U193, U194, U196, U197, U200, U201, U202, U203, U204, U205, U206, U207, U208, U209, U210, U211, U213, U214, U215, U216, U217, U218, U219, U220, U221, U222, U223, U225, U226, U227, U228, U234, U235, U237, U238, U239, U240, U243, U244, U246, U247, U248, U249

F001, F002, F003, F004, F005, F006, F010, F020, F021, F022, F023, F024, F025, F026, F027, F028, F039

K001, K002, K008, K009, K010, K011, K013, K014, K015, K016, K017, K018, K019, K020, K021, K022, K023, K024, K025, K026, K027, K028, K029, K030, K031, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041, K042, K043, K044, K045, K046, K047, K048, K049, K050, K051, K052, K060, K061, K069, K071, K073, K083, K084, K085, K086, K087, K093, K094, K095, K096, K097, K098, K099, K101, K102, K103, K104, K105, K113, K114, K115, K116

D001, D002, D003, D004, D005, D006, D007, D008, D010, D011, D012, D013, D014, D015, D016, D017

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Chapter NR 675**APPENDIX IV
ORGANIC LAB PACKS**

Hazardous waste with the following EPA hazardous waste code number may be placed in an "organic" lab pack:

P001, P002, P003, P004, P005, P007, P008, P009, P014, P016, P017, P018, P020, P021, P022, P023, P024, P026, P027, P028, P030, P031, P033, P034, P037, P039, P040, P041, P042, P043, P044, P045, P046, P047, P048, P049, P050, P051, P054, P057, P058, P059, P060, P062, P063, P064, P066, P067, P068, P069, P070, P071, P072, P075, P077, P081, P082, P084, P085, P088, P089, P093, P094, P095, P097, P098, P101, P102, P105, P106, P108, P109, P111, P112, P116, P118, P123

U001, U002, U003, U004, U005, U006, U007, U008, U009, U010, U011, U012, U015, U016, U017, U018, U019, U020, U021, U022, U023, U024, U025, U026, U027, U028, U029, U030, U031, U033, U034, U035, U036, U037, U038, U039, U041, U042, U043, U044, U045, U046, U047, U048, U049, U050, U052, U053, U055, U056, U057, U058, U059, U060, U061, U062, U063, U064, U066, U067, U068, U069, U070, U071, U072, U073, U074, U075, U076, U077, U078, U079, U080, U081, U082, U083, U084, U085, U086, U087, U088, U089, U090, U091, U092, U093, U094, U095, U096, U097, U098, U099, U101, U102, U103, U105, U106, U107,

U108, U109, U110, U111, U112, U113, U114, U115, U116, U117, U118, U119, U120, U121, U122, U123, U124, U125, U126, U127, U128, U129, U130, U131, U132, U133, U135, U137, U138, U140, U141, U142, U143, U147, U148, U149, U150, U152, U153, U154, U155, U156, U157, U158, U159, U160, U161, U162, U163, U164, U165, U166, U167, U168, U169, U170, U171, U172, U173, U174, U176, U177, U178, U179, U180, U181, U182, U183, U184, U185, U186, U187, U188, U189, U190, U191, U192, U193, U194, U196, U197, U200, U201, U202, U203, U206, U207, U208, U209, U210, U211, U213, U218, U219, U220, U221, U222, U223, U225, U226, U227, U228, U234, U235, U236, U237, U238, U239, U240, U243, U244, U247, U248, U249

F001, F002, F003, F004, F005, F010, F020, F021, F022, F023, F025, F026, F027, F028

K009, K010, K011, K013, K014, K016, K017, K018, K019, K020, K023, K024, K025, K026, K027, K029, K030, K032, K033, K034, K035, K036, K037, K038, K039, K040, K041, K042, K043, K044, K045, K047, K060, K073, K085, K093, K094, K095, K096, K097, K098, K099, K103, K104, K105, K113, K114, K116

D001, D012, D013, D014, D015, D016, D017

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APPENDIX V
RECOMMENDED TECHNOLOGIES TO ACHIEVE DEACTIVATION OF
CHARACTERISTICS IN SECTION S. NR 675.22

The treatment standard for many subcategories of D001, D002 and D003 wastes as well as for K044, K045 and K047 wastes is listed in s. NR 675.22 simply as "deactivation to remove the characteristics of ignitability, corrosivity, and reactivity". EPA has determined that many technologies, when used alone or in combination, can achieve this standard. The following Appendix presents a partial list of these technologies, utilizing the 5 letter technology codes established in s. NR 675.22 table 1. Use of these specific technologies is not mandatory and does not preclude direct reuse, recovery, and/or the use of other pretreatment technologies provided deactivation is achieved and these alternative methods are not performed in units designated as land disposal.

<u>Waste code/subcategory</u>	<u>Nonwastewaters</u>	<u>Wastewaters</u>
D001 Ignitable Liquids based on s. NR 605.08 (2) (a) 1. — Low TOC Nonwastewater Subcategory (containing 1% to <10% TOC)	RORGS INCIN WETOX CHOXD BIODG	n.a.
D001 Ignitable Liquids based on s. NR 605.08 (2) (a) 1. — Ignitable Wastewater Subcategory (containing <1% TOC)	n.a.	RORGS INCIN WETOX CHOXD BIODG
D001 Compressed Gases based on s. NR 605.08 (2) (a) 1.	RCGAS INCIN FSUBS ADGAS fb. INCIN ADGAS fb. (CHOXD; or CHRED)	n.a.
D001 Ignitable Reactives based on s. NR 605.08 (2) (a) 2.	WTRRX CHOXD CHRED STABL INCIN	n.a.
D001 Ignitable Oxidizers based on s. NR 605.08 (2) (a) 4.	CHRED INCIN	CHRED INCIN
D002 Acid Subcategory based on s. NR 605.08 (2) (a) 1. with pH less than or equal to 2	RCORR NEUTR INCIN	NEUTR INCIN
D002 Alkaline Subcategory based on s. NR 605.08 (2) (a) 1. with pH greater than or equal to 12.5	NEUTR INCIN	NEUTR INCIN
D002 Other Corrosives based on s. NR 605.08 (2) (a) 2.	CHOXD CHRED INCIN STABL	CHOXD CHRED INCIN
D003 Water Reactives based on s. NR 605.08 (2) (a) 2., 3. and 4.	INCIN WTRRX CHOXD CHRED	n.a.
D003 Reactive Sulfides based on s. NR 605.08 (4) (a) 5.	CHOXD CHRED INCIN STABL	CHOXD CHRED BIODG INCIN
D003 Explosives based on s. NR 605.08 (4) (a) 6., 7. and 8.	INCIN CHOXD CHRED	INCIN CHOXD CHRED BIODG CARBN
D003 Other Reactives based on s. NR 605.08 (4) (a) 1.	INCIN CHOXD CHRED	INCIN CHOXD CHRED BIODG CARBN

WISCONSIN ADMINISTRATIVE CODE

K044 Wastewater treatment sludges from the manufacturing and processing of explosives

CHOXD
CHRED
INCIN

CHOXD
CHRED
BIOBG
CARBN
INCIN

K045 Spent carbon from the treatment of wastewaters containing explosives

CHOXD
CHRED
INCIN

CHOXD
CHRED
BIOBG
CARBN
INCIN

K047 Pink/red water from TNT operations

CHOXD
CHRED
INCIN

CHOXD
CHRED
BIOBG
CARBN
INCIN

FOOTNOTE: Note: "n.a." stands for "not applicable"; "fb." stands for "followed by".

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APPENDIX VI

Table 1
Effective Dates of Surface Disposed Wastes Regulated In the LDERS

[Comprehensive List]					
Waste code	Waste Category	Effective date	Waste code	Waste Category	Effective date
California List	Liquid hazardous wastes, including free liquids associated with solid or sludge, containing free cyanides at concentrations greater than or equal to 1,000 mg/l or certain metals or compounds of these metals greater than or equal to the prohibition levels	July 8, 1987.	D005	Inorganic solid debris	May 8, 1992.
			D005	All others	Aug. 8, 1990.
			D006	Inorganic solid debris	May 8, 1992.
			D006	All others	Aug. 8, 1990.
			D007	Inorganic solid debris	May 8, 1992.
			D007	All others	Aug. 8, 1990.
			D008	Inorganic solid debris	May 8, 1992.
			D008	Lead acid batteries	May 8, 1992.
			D008	All others	Aug. 8, 1990.
			D009	Inorganic solid debris	May 8, 1992.
California List	Liquid (aqueous) hazardous wastes having a pH less than or equal to 2	July 8, 1987.	D009	High mercury nonwastewater	May 8, 1992.
			D009	Low mercury nonwastewater	May 8, 1992.
			D009	All others	Aug. 8, 1990.
California List	Dilute HOC wastewaters, defined as HOC-waste mixtures that are primarily water and that contain greater than or equal to 1,000 mg/l but less than 10,000 mg/l	July 8, 1987.	D010	Inorganic solid debris	May 8, 1992.
			D010	All others	Aug. 8, 1990.
			D011	Inorganic solid debris	May 8, 1992.
			D011	All others	Aug. 8, 1990.
			D012	All	Aug. 8, 1990.
			D013	All	Aug. 8, 1990.
			D0014	All	Aug. 8, 1990.
			D0015	All	Aug. 8, 1990.
			D0016	All	Aug. 8, 1990.
			D0017	All	Aug. 8, 1990.
California List	Liquid hazardous waste containing PCBs greater than or equal to 50 ppm	July 8, 1987.	F001-F005	All, except:	Nov. 8, 1988.
			F001-F005	Small quantity generators, CERCLA/RCRA corrective action, initial generator's solvent-water mixtures, solvent-containing sludges and solids, and non CERCLA/RCRA corrective action soils with less than 1 percent total solvent constituents	Nov. 8, 1988.
California List	Other liquid and non-liquid hazardous wastes containing HOCs in total concentration greater than or equal to 1,000 mg	Nov. 8, 1988.			
California List	Soil and debris HOCs not from CERCLA/RCRA corrective actions	July 8, 1989.			
California List	Soil and debris HOCs from CERCLA/RCRA corrective actions	Nov. 8, 1990.	F001-F005	Soil and debris	Nov. 8, 1990.
D001	All	Aug. 8, 1990.	F002 ^b	All	Aug. 8, 1990.
D002	All	Aug. 8, 1990.	F005 ^c	All	Aug. 8, 1990.
D003	All	Aug. 8, 1990.	F006	Wastewater	Aug. 8, 1990.
D004	Inorganic solid debris	May 8, 1992.	F006	Nonwastewater	Aug. 8, 1988.
			F006 (cyanides)	Nonwastewater	July 8, 1989.
D004	Nonwastewater	May 8, 1992.	F007	All	July 8, 1989.
D004	Wastewater	Aug. 8, 1990.	F008	All	July 8, 1989.
			F009	All	July 8, 1989.
			F010	Soil and debris	June 8, 1991.
			F010	All others	June 8, 1989.

WISCONSIN ADMINISTRATIVE CODE

Waste code	Waste Category	Effective date	Waste code	Waste Category	Effective date
F011	All	July 8, 1989.	K033	All	Aug. 8, 1990.
F012	All	July 8, 1989.	K034	All	Aug. 8, 1990.
F019	All	Aug. 8, 1990.	K035	All	Aug. 8, 1990.
F020	Soil and debris	Nov. 8, 1990.	K036 ^e	All	Aug. 8, 1990.
F020	All others	Nov. 8, 1988.	K037	Soil and debris	Aug. 8, 1990.
F021	Soil and debris	Nov. 8, 1990.	K037	Wastewater	Aug. 8, 1990.
F021	All others	Nov. 8, 1988.	K037	All others	Aug. 8, 1988.
F022	Soil and debris	Nov. 8, 1990.	K038	Soil and debris	June 8, 1991.
F022	All others	Nov. 8, 1988.	K038	All others	June 8, 1989.
F023	Soil and debris	Nov. 8, 1990.	K039	Soil and debris	June 8, 1991.
F023	All others	Nov. 8, 1988.	K039	All others	June 8, 1989.
F024	Soil and debris	June 8, 1991.	K040	Soil and debris	June 8, 1991.
F024 (metals)	Nonwastewater	Aug. 8, 1990.	K040	All others	June 8, 1989.
F024 (dioxins/furans)	All	Aug. 8, 1990.	K041	All	Aug. 8, 1990.
F024	All others	June 8, 1989.	K042	All	Aug. 8, 1990.
F025	All	Aug. 8, 1990.	K043	Soil and debris	June 8, 1991.
F026	Soil and debris	Nov. 8, 1990.	K043	All others	June 8, 1989.
F026	All others	Nov. 8, 1988.	K044	All	Aug. 8, 1990.
F027	Soil and debris	Nov. 8, 1990.	K045	All	Aug. 8, 1990.
F027	All others	Nov. 8, 1988.	K046	Nonreactive nonwastewater	Aug. 8, 1988.
F028	Soil and debris	Nov. 8, 1990.	K046	All others	Aug. 8, 1990.
F028	All others	Nov. 8, 1988.	K047	All	Aug. 8, 1990.
F039	Wastewater	Aug. 8, 1990.	K048	Wastewater	Aug. 8, 1990.
F039	Nonwastewater	May 8, 1992.	K048	Nonwastewater	Nov. 8, 1990.
K001	Soil and debris	Aug. 8, 1990.	K049	Wastewater	Aug. 8, 1990.
K001 (Lead/organics)	All	Aug. 8, 1990.	K049	Nonwastewater	Nov. 8, 1990.
K001	All others	Aug. 8, 1988.	K050	Wastewater	Aug. 8, 1990.
K002	All	Aug. 8, 1990.	K050	Nonwastewater	Nov. 8, 1990.
K003	All	Aug. 8, 1990.	K051	Wastewater	Aug. 8, 1990.
K004	All	Aug. 8, 1990.	K051	Nonwastewater	Nov. 8, 1990.
K005 ^d	All	Aug. 8, 1990.	K052	Wastewater	Aug. 8, 1990.
K006	All	Aug. 8, 1990.	K052	Nonwastewater	Nov. 8, 1990.
K007 ^d	All	Aug. 8, 1990.	K060 ^e	All	Aug. 8, 1990.
K008	All	Aug. 8, 1990.	K061	Wastewater	Aug. 8, 1990.
K009	Soil and debris	June 8, 1991.	K061	Nonwastewater	Aug. 8, 1988.
K009	All others	June 8, 1989.	K062	All	Aug. 8, 1988.
K010	Soil and debris	June 8, 1991.	K069	All	Aug. 8, 1990.
K010	All others	June 8, 1989.	K073	All	Aug. 8, 1990.
K011	Wastewater	Aug. 8, 1990.	K083	All	Aug. 8, 1990.
K011	Nonwastewater	June 8, 1989.	K084	Wastewater	Aug. 8, 1990.
K011	Soil and debris	June 8, 1991.	K084	Nonwastewater	May 8, 1992.
K013	Wastewater	Aug. 8, 1990.	K085	All	Aug. 8, 1990.
K013	Nonwastewater	June 8, 1989.	K086	All	Aug. 8, 1990.
K013	Soil and debris	June 8, 1991.	K087	Soil and debris	Aug. 8, 1990.
K014	Wastewater	Aug. 8, 1990.	K087	All others	Aug. 8, 1988.
K014	Nonwastewater	June 8, 1989.	K093	Soil and debris	June 8, 1991.
K014	Soil and debris	June 8, 1991.	K093	All others	June 8, 1989.
K015	Wastewater	Aug. 8, 1988.	K094	Soil and debris	June 8, 1991.
K015	Nonwastewater	Aug. 8, 1990.	K094	All others	June 8, 1989.
K016	Soil and debris	Aug. 8, 1990.	K095	Wastewater	Aug. 8, 1990.
K016	All others	Aug. 8, 1988.	K095	Nonwastewater	June 8, 1989.
K017	All	Aug. 8, 1990.	K095	Soil and debris	June 8, 1991.
K018	Soil and debris	Aug. 8, 1990.	K096	Wastewater	Aug. 8, 1990.
K018	All others	Aug. 8, 1988.	K096	Nonwastewater	June 8, 1989.
K019	Soil and debris	Aug. 8, 1990.	K096	Soil and debris	June 8, 1991.
K019	All others	Aug. 8, 1988.	K097	All	Aug. 8, 1990.
K020	Soil and debris	Aug. 8, 1990.	K098	All	Aug. 8, 1990.
K020	All others	Aug. 8, 1988.	K099	All	Aug. 8, 1988.
K021 ^e	All	Aug. 8, 1990.	K100 ^e	All	Aug. 8, 1990.
K022	Wastewater	Aug. 8, 1990.	K101	Wastewater	Aug. 8, 1988.
K022	Nonwastewater	Aug. 8, 1988.	K101	Nonwastewater	May 8, 1992.
K022	Soil and debris	Aug. 8, 1990.	K102	Wastewater	Aug. 8, 1988.
K023	Soil and debris	June 8, 1991.	K102	Nonwastewater	May 8, 1992.
K023	All others	June 8, 1989.	K103	Soil and debris	Aug. 8, 1990.
K024	Soil and debris	Aug. 8, 1990.	K103	All others	Aug. 8, 1988.
K024	All others	Aug. 8, 1988.	K104	Soil and debris	Aug. 8, 1990.
K025 ^e	All	Aug. 8, 1990.	K104	All others	Aug. 8, 1988.
K026	All	Aug. 8, 1990.	K105	All	Aug. 8, 1990.
K027	Soil and debris	June 8, 1991.	K106	High mercury nonwastewater	May 8, 1992.
K027	All others	June 8, 1989.	K106	Low mercury nonwastewater	May 8, 1992.
K028	Soil and debris	June 8, 1991.	K106	All others	Aug. 8, 1990.
K028 (metals)	Nonwastewater	Aug. 8, 1990.	K113	Soil and debris	June 8, 1991.
K028	All others	June 8, 1989.	K113	All others	June 8, 1989.
K029	Wastewater	Aug. 8, 1990.	K114	Soil and debris	June 8, 1991.
K029	Nonwastewater	June 8, 1989.	K114	All others	June 8, 1989.
K029	Soil and debris	June 8, 1991.	K115	Soil and debris	June 8, 1991.
K030	Soil and debris	Aug. 8, 1990.	K115	All others	June 8, 1989.
K030	All others	Aug. 8, 1988.	K116	Soil and debris	June 8, 1991.
K031	Wastewater	Aug. 8, 1990.	K116		
K031	Nonwastewater	May 8, 1992.			
K032	All	Aug. 8, 1990.			

Waste code	Waste Category	Effective date	Waste code	Waste Category	Effective date
K116	All others	June 8, 1989.	P073	All	Aug. 8, 1990.
P001	All	Aug. 8, 1990.	P074	All	June 8, 1989.
P002	All	Aug. 8, 1990.	P075	All	Aug. 8, 1990.
P003	All	Aug. 8, 1990.	P076	All	Aug. 8, 1990.
P004	All	Aug. 8, 1990.	P077	All	Aug. 8, 1990.
P005	All	Aug. 8, 1990.	P078	All	Aug. 8, 1990.
P006	All	Aug. 8, 1990.	P081	All	Aug. 8, 1990.
P007	All	Aug. 8, 1990.	P082	All	Aug. 8, 1990.
P008	All	Aug. 8, 1990.	P084	All	Aug. 8, 1990.
P009	All	Aug. 8, 1990.	P085	Soil and debris	June 8, 1991.
P010	Wastewater	Aug. 8, 1990.	P085	All others	June 8, 1989.
P010	Nonwastewater	May 8, 1992.	P087	All	May 8, 1992.
P011	Wastewater	Aug. 8, 1990.	P088	All	Aug. 8, 1990.
P011	Nonwastewater	May 8, 1992.	P089	Soil and debris	June 8, 1991.
P012	Wastewater	Aug. 8, 1990.	P089	All others	June 8, 1989.
P012	Nonwastewater	May 8, 1992.	P092	High mercury nonwastewater	May 8, 1992.
P013	All	Aug. 8, 1990.	P092	Low mercury nonwastewater	May 8, 1992.
P014	All	Aug. 8, 1990.	P092	All others	Aug. 8, 1990.
P016	All	Aug. 8, 1990.	P093	Soil and debris	May 8, 1992.
P016	All	Aug. 8, 1990.	P093	All others	Aug. 8, 1990.
P017	All	Aug. 8, 1990.	P094	Soil and debris	June 8, 1991.
P018	All	Aug. 8, 1990.	P094	All others	June 8, 1989.
P020	All	Aug. 8, 1990.	P095	Soil and debris	May 8, 1992.
P021	All	June 8, 1989.	P095	All others	Aug. 8, 1990.
P022	All	Aug. 8, 1990.	P096	All	Aug. 8, 1990.
P023	All	Aug. 8, 1990.	P097	Soil and debris	June 8, 1991.
P024	All	Aug. 8, 1990.	P097	All others	June 8, 1989.
P026	All	Aug. 8, 1990.	P098	All	June 8, 1989.
P027	All	Aug. 8, 1990.	P099 (silver)	Wastewater	Aug. 8, 1990.
P028	All	Aug. 8, 1990.	P099 (cyanides)	Wastewater	June 8, 1989.
P029	All	June 8, 1989.	P099 (cyanides/silver)	Nonwastewater	June 8, 1989.
P030	All	June 8, 1989.	P101	All	Aug. 8, 1990.
P031	All	Aug. 8, 1990.	P102	All	Aug. 8, 1990.
P033	All	Aug. 8, 1990.	P103	All	Aug. 8, 1990.
P034	All	Aug. 8, 1990.	P104 (silver)	Wastewater	Aug. 8, 1990.
P036	Wastewater	Aug. 8, 1990.	P104 (cyanides)	Wastewater	June 8, 1989.
P036	Nonwastewater	May 8, 1992.	P104 (cyanides/silver)	Nonwastewater	June 8, 1989.
P037	All	Aug. 8, 1990.	P105	All	Aug. 8, 1990.
P038	Wastewater	Aug. 8, 1990.	P106	All	June 8, 1989.
P038	Nonwastewater	May 8, 1992.	P108	Soil and debris	May 8, 1992.
P039	Soil and debris	June 8, 1991.	P108	All others	Aug. 8, 1990.
P039	All others	June 8, 1989.	P109	Soil and debris	June 8, 1991.
P040	Soil and debris	June 8, 1991.	P109	All others	June 8, 1989.
P040	All others	June 8, 1989.	P110	All	Aug. 8, 1990.
P041	Soil and debris	June 8, 1991.	P111	Soil and debris	June 8, 1991.
P041	All others	June 8, 1989.	P111	All others	June 8, 1989.
P042	All	Aug. 8, 1990.	P112	All	Aug. 8, 1990.
P043	Soil and debris	June 8, 1991.	P113	All	Aug. 8, 1990.
P043	All others	June 8, 1989.	P114	All	Aug. 8, 1990.
P044	Soil and debris	June 8, 1991.	P115	All	Aug. 8, 1990.
P044	All others	June 8, 1989.	P116	Soil and debris	May 8, 1992.
P045	All	Aug. 8, 1990.	P116	All others	Aug. 8, 1990.
P046	All	Aug. 8, 1990.	P118	Soil and debris	May 8, 1992.
P047	All	Aug. 8, 1990.	P118	All others	Aug. 8, 1990.
P048	All	Aug. 8, 1990.	P119	All	Aug. 8, 1990.
P049	All	Aug. 8, 1990.	P120	All	Aug. 8, 1990.
P050	All	Aug. 8, 1990.	P121	All	June 8, 1989.
P051	All	Aug. 8, 1990.	P122	All	Aug. 8, 1990.
P054	All	Aug. 8, 1990.	P123	All	Aug. 8, 1990.
P056	All	Aug. 8, 1990.	U001	All	Aug. 8, 1990.
P057	All	Aug. 8, 1990.	U002	All	Aug. 8, 1990.
P058	All	Aug. 8, 1990.	U003	Soil and debris	May 8, 1992.
P059	All	Aug. 8, 1990.	U003	All others	Aug. 8, 1990.
P060	All	Aug. 8, 1990.	U004	All	Aug. 8, 1990.
P062	Soil and debris	June 8, 1991.	U005	All	Aug. 8, 1990.
P062	All others	June 8, 1989.	U006	Soil and debris	May 8, 1992.
P063	All	June 8, 1989.	U006	All others	Aug. 8, 1990.
P064	All	Aug. 8, 1990.	U007	Soil and debris	May 8, 1992.
P065	High mercury nonwastewater	May 8, 1992.	U007	All others	Aug. 8, 1990.
P065	Low mercury nonwastewater	May 8, 1992.	U008	All	Aug. 8, 1990.
P065	All others	Aug. 8, 1990.	U009	All	Aug. 8, 1990.
P066	All	Aug. 8, 1990.	U010	Soil and debris	May 8, 1992.
P067	All	Aug. 8, 1990.	U010	All others	Aug. 8, 1990.
P068	All	Aug. 8, 1990.	U010	Soil and debris	May 8, 1992.
P069	All	Aug. 8, 1990.	U011	All others	Aug. 8, 1990.
P070	All	Aug. 8, 1990.	U012	All	Aug. 8, 1990.
P071	Soil and debris	June 8, 1991.	U014	Soil and debris	May 8, 1992.
P071	All others	June 8, 1989.	U014	All others	Aug. 8, 1990.
P072	All	Aug. 8, 1990.	U015	Soil and debris	May 8, 1992.

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Waste code	Waste Category	Effective date	Waste code	Waste Category	Effective date
U015	All others	Aug. 8, 1990.	U078	All	Aug. 8, 1990.
U016	All	Aug. 8, 1990.	U079	All	Aug. 8, 1990.
U017	Soil and debris	May 8, 1992.	U080	All	Aug. 8, 1990.
U017	All others	Aug. 8, 1990.	U081	All	Aug. 8, 1990.
U018	All	Aug. 8, 1990.	U082	All	Aug. 8, 1990.
U019	All	Aug. 8, 1990.	U083	All	Aug. 8, 1990.
U020	Soil and debris	May 8, 1992.	U084	All	Aug. 8, 1990.
U020	All others	Aug. 8, 1990.	U085	All	Aug. 8, 1990.
U021	Soil and debris	May 8, 1992.	U086	All	Aug. 8, 1990.
U021	All others	Aug. 8, 1990.	U087	Soil and debris	June 8, 1991.
U022	All	Aug. 8, 1990.	U087	All others	June 8, 1989.
U023	All	Aug. 8, 1990.	U088	Soil and debris	June 8, 1991.
U024	All	Aug. 8, 1990.	U088	All others	June 8, 1989.
U025	All	Aug. 8, 1990.	U089	All	Aug. 8, 1990.
U026	Soil and debris	May 8, 1992.	U090	All	Aug. 8, 1990.
U026	All others	Aug. 8, 1990.	U091	Soil and debris	May 8, 1992
U027	All	Aug. 8, 1990.	U091	All others	Aug. 8, 1990.
U028	Soil and debris	June 8, 1991.	U092	Soil and debris	May 8, 1992.
U028	All others	June 8, 1989.	U092	All others	Aug. 8, 1990.
U029	All	Aug. 8, 1990.	U093	Soil and debris	May 8, 1992.
U030	All	Aug. 8, 1990.	U093	All others	Aug. 8, 1990.
U031	All	Aug. 8, 1990.	U094	All	Aug. 8, 1990.
U032	All	Aug. 8, 1990.	U095	Soil and debris	May 8, 1992.
U033	Soil and debris	May 8, 1992.	U095	All others	Aug. 8, 1990.
U033	All others	Aug. 8, 1990.	U096	All	Aug. 8, 1990.
U034	Soil and debris	May 8, 1992.	U097	Soil and debris	May 8, 1992.
U034	All others	Aug. 8, 1990.	U097	All others	Aug. 8, 1990.
U035	Soil and debris	May 8, 1992.	U098	All	Aug. 8, 1990.
U035	All others	Aug. 8, 1990.	U099	All	Aug. 8, 1990.
U036	All	Aug. 8, 1990.	U101	All	Aug. 8, 1990.
U037	All	Aug. 8, 1990.	U102	Soil and debris	June 8, 1991.
U038	Soil and debris	May 8, 1992.	U102	All others	June 8, 1989.
U038	All others	Aug. 8, 1990.	U103	All	Aug. 8, 1990.
U039	All	Aug. 8, 1990.	U105	All	Aug. 8, 1990.
U041	Soil and debris	May 8, 1992.	U106	All	Aug. 8, 1990.
U041	All	Aug. 8, 1990.	U107	Soil and debris	June 8, 1991.
U042	Soil and debris	May 8, 1992.	U107	All others	June 8, 1989.
U042	All others	Aug. 8, 1990.	U108	All	Aug. 8, 1990.
U043	All	Aug. 8, 1990.	U109	All	Aug. 8, 1990.
U044	All	Aug. 8, 1990.	U110	Soil and debris	May 8, 1992.
U045	All	Aug. 8, 1990.	U110	All others	Aug. 8, 1990.
U046	Soil and debris	May 8, 1992.	U111	All	Aug. 8, 1990.
U046	All others	Aug. 8, 1990.	U112	All	Aug. 8, 1990.
U047	All	Aug. 8, 1990.	U113	All	Aug. 8, 1990.
U048	All	Aug. 8, 1990.	U114	Soil and debris	May 8, 1992.
U049	Soil and debris	May 8, 1992.	U114	All others	Aug. 8, 1990.
U049	All others	Aug. 8, 1990.	U115	All	Aug. 8, 1990.
U050	All	Aug. 8, 1990.	U116	Soil and debris	May 8, 1992.
U051	All	Aug. 8, 1990.	U116	All others	Aug. 8, 1990.
U052	All	Aug. 8, 1990.	U117	All	Aug. 8, 1990.
U053	All	Aug. 8, 1990.	U118	All	Aug. 8, 1990.
U055	All	Aug. 8, 1990.	U119	Soil and debris	May 8, 1992.
U056	All	Aug. 8, 1990.	U119	All others	Aug. 8, 1990.
U057	All	Aug. 8, 1990.	U120	All	Aug. 8, 1990.
U058	Soil and debris	June 8, 1992.	U121	All	Aug. 8, 1990.
U058	All others	June 8, 1989.	U122	All	Aug. 8, 1990.
U059	Soil and debris	May 8, 1992.	U123	All	Aug. 8, 1990.
U059	All others	Aug. 8, 1990.	U124	All	Aug. 8, 1990.
U060	Soil and debris	May 8, 1992.	U125	All	Aug. 8, 1990.
U060	All others	Aug. 8, 1990.	U126	All	Aug. 8, 1990.
U061	Soil and debris	May 8, 1992.	U127	All	Aug. 8, 1990.
U061	All others	Aug. 8, 1990.	U128	All	Aug. 8, 1990.
U062	Soil and debris	May 8, 1992.	U129	All	Aug. 8, 1990.
U062	All others	Aug. 8, 1990.	U130	Soil and debris	May 8, 1992.
U063	All	Aug. 8, 1990.	U130	All others	Aug. 8, 1990.
U064	All	Aug. 8, 1990.	U131	All	Aug. 8, 1990.
U066	All	Aug. 8, 1990.	U132	Soil and debris	May 8, 1992.
U067	All	Aug. 8, 1990.	U132	All others	Aug. 8, 1990.
U068	All	Aug. 8, 1990.	U133	All	Aug. 8, 1990.
U069	Soil and debris	June 8, 1991.	U134	All	Aug. 8, 1990.
U069	All others	June 8, 1989.	U135	All	Aug. 8, 1990.
U070	All	Aug. 8, 1990.	U136	Wastewater	Aug. 8, 1990.
U071	All	Aug. 8, 1990.	U136	Nonwastewater	May 8, 1992.
U072	All	Aug. 8, 1990.	U137	All	Aug. 8, 1990.
U073	Soil and debris	May 8, 1992.	U138	All	Aug. 8, 1990.
U073	All others	Aug. 8, 1990.	U140	All	Aug. 8, 1990.
U074	Soil and debris	May 8, 1992.	U141	All	Aug. 8, 1990.
U074	All others	Aug. 8, 1990.	U142	All	Aug. 8, 1990.
U075	All	Aug. 8, 1990.	U143	Soil and debris	May 8, 1992.
U076	All	Aug. 8, 1990.	U143	All others	Aug. 8, 1990.
U077	All	Aug. 8, 1990.	U144	All	Aug. 8, 1990.

Waste code	Waste Category	Effective date	Waste code	Waste Category	Effective date
U145	All	Aug. 8, 1990.	U190	All others	June 8, 1989.
U146	All	Aug. 8, 1990.	U191	Soil and debris	May 8, 1992.
U147	All	Aug. 8, 1990.	U191	All others	Aug. 8, 1990.
U148	Soil and debris	May 8, 1992.	U192	All	Aug. 8, 1990.
U148	All others	Aug. 8, 1990.	U193	Soil and debris	May 8, 1992.
U149	Soil and debris	May 8, 1992.	U193	All others	Aug. 8, 1990.
U149	All others	Aug. 8, 1990.	U194	Soil and debris	May 8, 1992.
U150	Soil and debris	May 8, 1992.	U194	All others	Aug. 8, 1990.
U150	All others	Aug. 8, 1990.	U196	All	Aug. 8, 1990.
U151	High mercury nonwastewater	May 8, 1992.	U197	All	Aug. 8, 1990.
U151	Low mercury nonwastewater	May 8, 1992.	U200	Soil and debris	May 8, 1992.
U151	Soil and debris	May 8, 1992.	U200	All others	Aug. 8, 1990.
U151	All others	Aug. 8, 1990.	U201	All	Aug. 8, 1990.
U152	All	Aug. 8, 1990.	U202	Soil and debris	May 8, 1992.
U153	Soil and debris	May 8, 1992.	U202	All others	Aug. 8, 1990.
U153	All others	Aug. 8, 1990.	U203	All	Aug. 8, 1990.
U154	All	Aug. 8, 1990.	U204	All	Aug. 8, 1990.
U155	All	Aug. 8, 1990.	U205	All	Aug. 8, 1990.
U156	Soil and debris	May 8, 1992.	U206	Soil and debris	May 8, 1992.
U156	All others	Aug. 8, 1990.	U206	All others	Aug. 8, 1990.
U157	All	Aug. 8, 1990.	U207	All	Aug. 8, 1990.
U158	All	Aug. 8, 1990.	U208	All	Aug. 8, 1990.
U159	All	Aug. 8, 1990.	U209	All	Aug. 8, 1990.
U160	All	Aug. 8, 1990.	U210	All	Aug. 8, 1990.
U161	All	Aug. 8, 1990.	U211	All	Aug. 8, 1990.
U162	All	Aug. 8, 1990.	U213	All	Aug. 8, 1990.
U163	Soil and debris	May 8, 1992.	U214	All	Aug. 8, 1990.
U163	All others	Aug. 8, 1990.	U215	All	Aug. 8, 1990.
U164	Soil and debris	May 8, 1992.	U216	All	Aug. 8, 1990.
U164	All others	Aug. 8, 1990.	U217	All	Aug. 8, 1990.
U165	All	Aug. 8, 1990.	U218	Soil and debris	May 8, 1992.
U166	All	Aug. 8, 1990.	U218	All others	Aug. 8, 1990.
U167	Soil and debris	May 8, 1992.	U219	Soil and debris	May 8, 1992.
U167	All others	Aug. 8, 1990.	U219	All others	Aug. 8, 1990.
U168	Soil and debris	May 8, 1992.	U220	All	Aug. 8, 1990.
U168	All others	Aug. 8, 1990.	U221	Soil and debris	June 8, 1989.
U169	All	Aug. 8, 1990.	U221	All others	June 8, 1989.
U170	All	Aug. 8, 1990.	U222	Soil and debris	May 8, 1992.
U171	Soil and debris	May 8, 1992.	U222	All others	Aug. 8, 1990.
U171	All others	Aug. 8, 1990.	U223	Soil and debris	June 8, 1991.
U172	All	Aug. 8, 1990.	U223	All others	June 8, 1989.
U173	Soil and debris	May 8, 1992.	U225	All	Aug. 8, 1990.
U173	All others	Aug. 8, 1990.	U226	All	Aug. 8, 1990.
U174	All	Aug. 8, 1990.	U227	All	Aug. 8, 1990.
U176	Soil and debris	May 8, 1992.	U228	All	Aug. 8, 1990.
U176	All others	Aug. 8, 1990.	U234	Soil and debris	May 8, 1992.
U177	Soil and debris	May 8, 1992.	U234	All others	Aug. 8, 1990.
U177	All others	Aug. 8, 1990.	U235	Soil and debris	June 8, 1991.
U178	Soil and debris	May 8, 1992.	U235	All others	June 8, 1989.
U178	All others	Aug. 8, 1990.	U236	Soil and debris	May 8, 1992.
U179	All	Aug. 8, 1990.	U236	All others	Aug. 8, 1990.
U180	All	Aug. 8, 1990.	U237	Soil and debris	May 8, 1992.
U181	All	Aug. 8, 1990.	U237	All others	Aug. 8, 1990.
U182	All	Aug. 8, 1990.	U238	Soil and debris	May 8, 1992.
U183	All	Aug. 8, 1990.	U238	All others	Aug. 8, 1990.
U184	Soil and debris	May 8, 1992.	U239	All	Aug. 8, 1990.
U184	All others	Aug. 8, 1990.	U240	Soil and debris	May 8, 1992.
U185	All	Aug. 8, 1990.	U240	All others	Aug. 8, 1990.
U186	All	Aug. 8, 1990.	U243	All	Aug. 8, 1990.
U187	All	Aug. 8, 1990.	U244	Soil and debris	May 8, 1992.
U188	All	Aug. 8, 1990.	U244	All others	Aug. 8, 1990.
U189	All	Aug. 8, 1990.	U246	All	Aug. 8, 1990.
U190	Soil and debris	June 8, 1991.	U247	All	Aug. 8, 1990.
			U248	All	Aug. 8, 1990.
			U249	All	Aug. 8, 1990.

FOOTNOTE: ^aThis table does not include mixed radioactive wastes (from the First, Second, and Third Third rules) which are receiving a national capacity variance until May 8, 1992 for all applicable treatment technologies.

FOOTNOTE: ^bStandards are being promulgated for 1,1,2-trichloroethane and 2-nitropropane for wastewaters and nonwastewaters.

FOOTNOTE: ^cStandards are being promulgated for benzene and 2-ethoxyethanol for wastewaters and nonwastewaters.

FOOTNOTE: ^dTreatment standards for nonwastewaters disposed of after June 8, 1989, were promulgated June 8, 1989.

FOOTNOTE: ^eTreatment standards for nonwastewaters disposed of after August 17, 1988, were promulgated May 2, 1989.

Note: This table is provided for the convenience of the reader.

Table 2

Summary of Effective Dates of Land Disposal Restrictions for Contaminated Soil and Debris (CSD)

Restricted hazardous waste in CSD	Effective date
1. Solvent (F001-F005) and dioxin (F020-F023 and F026-F028) containing soil and debris from CERCLA response of RCRA corrective actions.	Nov. 8, 1990.
2. Soil and debris not from CERCLA response or RCRA corrective actions contaminated with less than 1% total solvents (F001-F005) or dioxins (F020-F023 and F026-F028).	Nov. 8, 1988.
3. Soil and debris contaminated with California list HOCs from CERCLA response or RCRA corrective actions.	Nov. 8, 1990.
4. Soil and debris contaminated with California list HOCs not from CERCLA response or RCRA corrective actions.	July 8, 1989.
5. All soil and debris contaminated with First Third wastes for which treatment standards are based on incineration.	Aug. 8, 1990.
6. All soil and debris contaminated with Second Third wastes for which treatment standards are based on incineration.	June 8, 1991.
7. All soil and debris contaminated with Third Third wastes or, First or Second Third "soft hammer" wastes which had treatment standards promulgated in the Third Third rule, for which treatment standards are based on incineration, vitrification, or mercury retorting, acid leaching followed by chemical precipitation, or thermal recovery of metals, as well as all inorganic solids debris contaminated with D004-D011 wastes, and all soil and debris contaminated with mixed RCRA/radioactive wastes.	May 8, 1992.

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APPENDIX VII
NATIONAL CAPACITY LDR VARIANCES FOR UIC WASTES

[Comprehensive List]					
Waste code	Waste Category	Effective date	Waste code	Waste Category	Effective date
F001-F005	All spent F001-F005 solvent containing less than 1 percent total F001-F005 solvent constituents	Aug. 8, 1990.	D002 ^b	All	May 8, 1992.
			D003 (cyanides)	All	May 8, 1992.
			D003 (sulfides)	All	May 8, 1992.
			D003 (explosives, reactives)	All	May 8, 1992.
California List	Liquid hazardous wastes, including free liquids associated with any solid or sludge, containing free cyanides at concentrations greater than or equal to 1,000 mg/l, or containing certain metals or compounds of these metals greater than or equal to the prohibition levels	Aug. 8, 1990.	D007	All	May 8, 1992.
			D009	High Mercury Nonwastewater	May 8, 1992.
			D009	Low Mercury Nonwastewater	May 8, 1992.
			F011	All	June 8, 1991.
			F039	Wastewater	May 8, 1992.
			K009	Wastewater	June 8, 1991.
			K011	Nonwastewater	June 8, 1991.
			K011	Wastewater	May 8, 1992.
			K013	Nonwastewater	June 8, 1991.
			K013	Wastewater	May 8, 1992.
			K014	All	May 8, 1992.
California List	Liquid hazardous waste having a pH less than or equal to 2	Aug. 8, 1990.	K016 (dilute)	All	June 8, 1991.
			K048	All	Aug. 8, 1990.
			K049	All	Aug. 8, 1990.
			K050	All	Aug. 8, 1990.
California List	Hazardous wastes containing HOCs in total concentrations less than 10,000 mg/l but greater than or equal to 1,000 mg/l	Aug. 8, 1990.	K051	All	Aug. 8, 1990.
			K052	All	Aug. 8, 1990.
			K062	All	Aug. 8, 1990.
			K071	All	Aug. 8, 1990.
			K104	All	Aug. 8, 1990.

FOOTNOTE: ^aWastes that are deep well disposed on-site receive a six-month variance, with restrictions effective in November 1990.

FOOTNOTE: ^bDeep well injected D002 liquids with a pH less than 2 must meet the California List treatment standards on August 8, 1990.

Note: 1. Appendix VII is provided for the convenience of the reader.

2. Contaminated Soil and Debris Rule will be promulgated in the future.