

Appendix I to 40 CFR Part 265 -- Recordkeeping Instructions

The recordkeeping provisions of § 265.73 specify that an owner or operator must keep a written operating record at his or her facility. This appendix provides additional instructions for keeping portions of the operating record. See § 265.73(b) for additional recordkeeping requirements.

The following information must be recorded, as it becomes available, and maintained in the operating record until closure of the facility in the following manner:

Records of each hazardous waste received, treated, stored, or disposed of at the facility which include the following:

(1) A description by its common name and the EPA Hazardous Waste Number(s) from part 261 of this chapter which apply to the waste. The waste description also must include the waste's physical form, i.e., liquid, sludge, solid, or contained gas. If the waste is not listed in part 261, subpart D of this chapter, the description also must include the process that produced it (for example, solid filter cake from production of ---, EPA Hazardous Waste Number W051).

Each hazardous waste listed in part 261, subpart D, of this chapter, and each hazardous waste characteristic defined in part 261, subpart C, of this chapter, has a four-digit EPA Hazardous Waste Number assigned to it. This number must be used for recordkeeping and reporting purposes. Where a hazardous waste contains more than one listed hazardous waste, or where more than one hazardous waste characteristic applies to the waste, the waste description must include all applicable EPA Hazardous Waste Numbers.

(2) The estimated or manifest-reported weight, or volume and density, where applicable, in one of the units of measure specified in Table 1; and

Table 1

Unit of measure	Code ¹
Gallons	G
Gallons per Hour	E
Gallons per Day	U
Liters	L
Liters Per Hour	H
Liters Per Day	V
Short Tons Per Hour	D

Metric Tons Per Hour	W
Short Tons Per Day	N
Metric Tons Per Day	S
Pounds Per Hour	J
Kilograms Per Hour	R
Cubic Yards	Y
Cubic Meters	C
Acres	B
Acre-feet	A
Hectares	Q
Hectare-meter	F
Btu's per Hour	I

FOOTNOTE: ¹Single digit symbols are used here for data processing purposes.

(3) The method(s) (by handling code(s) as specified in Table 2) and date(s) of treatment, storage, or disposal.

Table 2.-Handling Codes for Treatment, Storage and Disposal Methods

Enter the handling code(s) listed below that most closely represents the technique(s) used at the facility to treat, store or dispose of each quantity of hazardous waste received.

1. Storage

- S01 Container (barrel, drum, etc.)
- S02 Tank
- S03 Waste Pile
- S04 Surface Impoundment
- S05 Drip Pad
- S06 Containment Building (Storage)
- S99 Other Storage (specify)

2. Treatment

(a) Thermal Treatment--

- T06 Liquid injection incinerator
- T07 Rotary kiln incinerator
- T08 Fluidized bed incinerator
- T09 Multiple hearth incinerator
- T10 Infrared furnace incinerator

- T11 Molten salt destructor
- T12 Pyrolysis
- T13 Wet Air oxidation
- T14 Calcination
- T15 Microwave discharge
- T18 Other (specify)

(b) Chemical Treatment--

- T19 Absorption mound
- T20 Absorption field
- T21 Chemical fixation
- T22 Chemical oxidation
- T23 Chemical precipitation
- T24 Chemical reduction
- T25 Chlorination
- T26 Chlorinolysis
- T27 Cyanide destruction
- T28 Degradation
- T29 Detoxification
- T30 Ion exchange
- T31 Neutralization
- T32 Ozonation
- T33 Photolysis
- T34 Other (specify)

(c) Physical Treatment--

(1) Separation of components

- T35 Centrifugation
- T36 Clarification
- T37 Coagulation
- T38 Decanting
- T39 Encapsulation
- T40 Filtration
- T41 Flocculation
- T42 Flotation
- T43 Foaming
- T44 Sedimentation

- T45 Thickening
- T46 Ultrafiltration
- T47 Other (specify)

(2) Removal of Specific Components

- T48 Absorption-molecular sieve
- T49 Activated carbon
- T50 Blending
- T51 Catalysis
- T52 Crystallization
- T53 Dialysis
- T54 Distillation
- T55 Electrodialysis
- T56 Electrolysis
- T57 Evaporation
- T58 High gradient magnetic separation
- T59 Leaching
- T60 Liquid ion exchange
- T61 Liquid-liquid extraction
- T62 Reverse osmosis
- T63 Solvent recovery
- T64 Stripping
- T65 Sand filter
- T66 Other (specify)

(d) Biological Treatment

- T67 Activated sludge
- T68 Aerobic lagoon
- T69 Aerobic tank
- T70 Anaerobic tank
- T71 Composting
- T72 Septic tank
- T73 Spray irrigation
- T74 Thickening filter
- T75 Tricking filter
- T76 Waste stabilization pond
- T77 Other (specify)

T78 [Reserved]

T79 [Reserved]

(e) Boilers and Industrial Furnaces

T80 Boiler

T81 Cement Kiln

T82 Lime Kiln

T83 Aggregate Kiln

T84 Phosphate Kiln

T85 Coke Oven

T86 Blast Furnace

T87 Smelting, Melting, or Refining Furnace

T88 Titanium Dioxide Chloride Process Oxidation Reactor

T89 Methane Reforming Furnace

T90 Pulping Liquor Recovery Furnace

T91 Combustion Device Used in the Recovery of Sulfur Values
From Spent Sulfuric Acid

T92 Halogen Acid Furnaces

T93 Other Industrial Furnaces Listed in 40 CFR 260.10 (specify)

(f) Other Treatment

T94 Containment Building (Treatment)

3. Disposal

D79 Underground Injection

D80 Landfill

D81 Land Treatment

D82 Ocean Disposal

D83 Surface Impoundment (to be closed as a landfill)

D99 Other Disposal (specify)

4. Miscellaneous (Subpart X)

X01 Open Burning/Open Detonation

X02 Mechanical Processing

X03 Thermal Unit

X04 Geologic Repository

X99 Other Subpart X (specify)

Appendix III to Part 265 -- EPA Interim Primary Drinking Water Standards

Parameter	Maximum level (mg/l)
Arsenic	0.05
Barium	1.0
Cadmium	0.01
Chromium	0.05
Fluoride	1.4-2.4
Lead	0.05
Mercury	0.002
Nitrate (as N)	10
Selenium	0.01
Silver	0.05
Endrin	0.0002
Lindane	0.004
Methoxychlor	0.1
Toxaphene	0.005
2,4-D	0.1
2,4,5-TP Silver	0.01
Radium	5 pCi/l
Gross Alpha	15 pCi/l
Gross Beta	4 millirem/yr
Turbidity	1/TU
Coliform Bacteria	1/100 ml

Comment: Turbidity is applicable only to surface water supplies.

Appendix IV to Part 265 -- Tests for Significance

As required in § 265.93(b) the owner or operator must use the Student's t-test to determine statistically significant changes in the concentration or value of an indicator parameter in periodic ground-water samples when compared to the initial background concentration or value of that indicator parameter. The comparison must consider individually each of the wells in the monitoring system. For three of the indicator parameters (specific conductance, total organic carbon, and total organic halogen) a single-tailed Student's t-test must be used to test at the 0.01 level of significance for significant increases over background. The difference test for pH must be a two-tailed Student's t-test at the overall 0.01 level of significance.

The student's t-test involves calculation of the value of a t-statistic for each comparison of the mean (average) concentration or value (based on a minimum of four replicate measurements) of an indicator parameter with its initial background concentration or value. The calculated value of the t-statistic must then be compared to the value of the t-statistic found in a table for t-test of significance at the specified level of significance. A calculated value of t which exceeds the value of t found in the table indicates a statistically significant change in the concentration or value of the indicator parameter.

Formulae for calculation of the t-statistic and tables for t-test of significance can be found in most introductory statistics texts.

Appendix V to Part 265 -- Examples of Potentially Incompatible Waste

Many hazardous wastes, when mixed with other waste or materials at a hazardous waste facility, can produce effects which are harmful to human health and the environment, such as (1) heat or pressure, (2) fire or explosion, (3) violent reaction, (4) toxic dusts, mists, fumes, or gases, or (5) flammable fumes or gases.

Below are examples of potentially incompatible wastes, waste components, and materials, along with the harmful consequences which result from mixing materials in one group with materials in another group. The list is intended as a guide to owners or operators of treatment, storage, and disposal facilities, and to enforcement and permit granting officials, to indicate the need for special precautions when managing these potentially incompatible waste materials or components.

This list is not intended to be exhaustive. An owner or operator must, as the regulations require, adequately analyze his wastes so that he can avoid creating uncontrolled substances or reactions of the type listed below, whether they are listed below or not.

It is possible for potentially incompatible wastes to be mixed in a way that precludes a reaction (e.g., adding acid to water rather than water to acid) or that neutralizes them (e.g., a strong acid mixed with a strong base), or that controls substances produced (e.g., by generating flammable gases in a closed tank equipped so that ignition cannot occur, and burning the gases in an incinerator).

In the lists below, the mixing of a Group A material with a Group B material may have the potential consequence as noted.

Group 1-A	Group 1-B
Acetylene sludge	Acid sludge
Akaline caustic liquids	Acid and water
Alkaline cleaner	Battery acid
Alkaline corrosive liquids	Chemical cleaners
Alkaline corrosive battery fluid	Electrolyte, acid
Caustic wastewater	Etching acid liquid or solvent
Lime sludge and other corrosive alkalines	

Lime wastewater	Pickling liquor and other corrosive acids
Lime and water	Spent acid
Spent caustic	Spent mixed acid
	Spent sulfuric acid

Potential consequences: Heat generation; violent reaction.

Group 2-A	Group 2-B
Aluminum Beryllium Calcium Lithium Magnesium Potassium Sodium Zinc powder Other reactive metals and metal hydrides	Any waste in Group 1-A or 1-B

Potential consequences: Fire or explosion; generation of flammable hydrogen gas.

Group 3-A	Group 3-B
Alcohols Water	Any concentrated waste in Groups 1-A or 1-B Calcium Lithium Metal hydrides Potassium SO ₂ Cl ₂ , SOCl ₂ , PCl ₃ , CH ₃ SiCl ₃ Other water-reactive waste

Potential consequences: Fire, explosion, or heat generation; generation of flammable or toxic gases.

Group 4-A	Group 4-B
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Alcohols	Concentrated Group 1-A or 1-B wastes
Aldehydes	Group 2-A wastes
Halogenated hydrocarbons	
Nitrated hydrocarbons	
Unsaturated hydrocarbons	
Other reactive organic compounds and solvents	

Potential consequences: Fire, explosion, or violent reaction.

Group 5-A	Group 5-B
Spent cyanide and sulfide solutions	Group 1-B wastes

Potential consequences: Generation of toxic hydrogen cyanide or hydrogen sulfide gas.

Group 6-A	Group 6-B
Chlorates	Acetic acid and other organic acids
Chlorine	Concentrated mineral acids
Chlorites	Group 2-A wastes
Chromic acid	Group 4-A wastes
Hyphochlorites	Other flammable and combustible wastes
Nitrates	
Nitric acid, fuming	
Perchlorates	
Permanganates	
Peroxides	
Other strong oxidizers	

Potential consequences: Fire, explosion, or violent reaction.

Source: "Law, Regulations, and Guidelines for Handling of Hazardous Waste." California Department of Health, February 1975.

CHAPTER 11-265, APPENDIX VI

Appendix VI to Part 265--Compounds With Henry's Law Constant Less Than 0.1 Y/X

Compound name	CAS No.
Acetaldol.....	107-89-1
Acetamide.....	60-35-5
2-Acetylaminofluorene.....	53-96-3
3-Acetyl-5-hydroxypiperidine.....	
3-Acetylpiperidine.....	618-42-8
1-Acetyl-2-thiourea.....	591-08-2
Acrylamide.....	79-06-1
Acrylic acid.....	79-10-7
Adenine.....	73-24-5
Adipic acid.....	124-04-9
Adiponitrile.....	111-69-3
Alachlor.....	15972-60-8
Aldicarb.....	116-06-3
Ametryn.....	834-12-8
4-Aminobiphenyl.....	92-67-1
4-Aminopyridine.....	504-24-5
Aniline.....	62-53-3
o-Anisidine.....	90-04-0
Anthraquinone.....	84-65-1
Atrazine.....	1912-24-9
Benzenearsonic acid.....	98-05-5
Benzenesulfonic acid.....	98-11-3
Benzidine.....	92-87-5
Benzo(a)anthracene.....	56-55-3
Benzo(k)fluoranthene.....	207-08-9
Benzoic acid.....	65-85-0
Benzo(g,h,i)perylene.....	191-24-2
Benzo(a)pyrene.....	50-32-8
Benzyl alcohol.....	100-51-6
gamma-BHC.....	58-89-9
Bis(2-ethylhexyl)phthalate.....	117-81-7
Bromochloromethyl acetate.....	
Bromoxynil.....	1689-84-5
Butyric acid.....	107-92-6
Caprolactam (hexahydro-2H-azepin-2-one).....	105-60-2
Catechol (o-dihydroxybenzene).....	120-80-9
Cellulose.....	9004-34-6
Cell wall.....	
Chlorhydrin (3-Chloro-1,2-propanediol).....	96-24-2
Chloroacetic acid.....	79-11-8
2-Chloroacetophenone.....	93-76-5
p-Chloroaniline.....	106-47-8

p-Chlorobenzophenone.....	134-85-0
Chlorobenzilate.....	510-15-6
p-Chloro-m-cresol (6-chloro-m-cresol).....	59-50-7
3-Chloro-2,5-diketopyrrolidine.....	
Chloro-1,2-ethane diol.....	
4-Chlorophenol.....	106-48-9
Chlorophenol polymers (2-chlorophenol & 4-chlorophenol).....	95-57-8 & 106-48-9
1-(o-Chlorophenyl)thiourea.....	5344-82-1
Chrysene.....	218-01-9
Citric acid.....	77-92-9
Creosote.....	8001-58-9
m-Cresol.....	108-39-4
o-Cresol.....	95-48-7
p-Cresol.....	106-44-5
Cresol (mixed isomers).....	1319-77-3
4-Cumylphenol.....	27576-86
Cyanide.....	57-12-5
4-Cyanomethyl benzoate.....	
Diazinon.....	333-41-5
Dibenzo(a,h)anthracene.....	53-70-3
Dibutylphthalate.....	84-74-2
2,5-Dichloroaniline (N,N'-dichloroaniline).....	95-82-9
2,6-Dichlorobenzonitrile ¹¹	1194-65-6
2,6-Dichloro-4-nitroaniline.....	99-30-9
2,5-Dichlorophenol.....	333-41-5
3,4-Dichlorotetrahydrofuran.....	3511-19
Dichlorvos (DDVP).....	62737
Diethanolamine.....	111-42-2
N,N-Diethylaniline.....	91-66-7
Diethylene glycol.....	111-46-6
Diethylene glycol dimethyl ether (dimethyl Carbitol)....	111-96-6
Diethylene glycol monobutyl ether (butyl Carbitol).....	112-34-5
Diethylene glycol monoethyl ether acetate (Carbitol acetate).....	112-15-2
Diethylene glycol monoethyl ether (Carbitol Cellosolve).	111-90-0
Diethylene glycol monomethyl ether (methyl Carbitol)....	111-77-3
N,N'-Diethylhydrazine.....	1615-80-1
Diethyl (4-methylumbelliferyl) thionophosphate.....	299-45-6
Diethyl phosphorothioate.....	126-75-0
N,N'-Diethylpropionamide.....	15299-99-7
Dimethoate.....	60-51-5
2,3-Dimethoxystrychnidin-10-one.....	357-57-3
4-Dimethylaminoazobenzene.....	60-11-7
7,12-Dimethylbenz(a)anthracene.....	57-97-6
3,3-Dimethylbenzidine.....	119-93-7
Dimethylcarbamoyl chloride.....	79-44-7
Dimethyldisulfide.....	624-92-0
Dimethylformamide.....	68-12-2
1,1-Dimethylhydrazine.....	57-14-7
Dimethylphthalate.....	131-11-3
Dimethylsulfone.....	67-71-0

Dimethylsulfoxide.....	67-68-5
4,6-Dinitro-o-cresol.....	534-52-1
1,2-Diphenylhydrazine.....	122-66-7
Dipropylene glycol (1,1'-oxydi-2-propanol).....	110-98-5
Endrin.....	72-20-8
Epinephrine.....	51-43-4
mono-Ethanolamine.....	141-43-5
Ethyl carbamate (urethane).....	5-17-96
Ethylene glycol.....	107-21-1
Ethylene glycol monobutyl ether (butyl Cellosolve).....	111-76-2
Ethylene glycol monoethyl ether (Cellosolve).....	110-80-5
Ethylene glycol monoethyl ether acetate (Cellosolve acetate).....	111-15-9
Ethylene glycol monomethyl ether (methyl Cellosolve)....	109-86-4
Ethylene glycol monophenyl ether (phenyl Cellosolve)....	122-99-6
Ethylene glycol monopropyl ether (propyl Cellosolve)...	2807-30-9
Ethylene thiourea (2-imidazolidinethione).....	9-64-57
4-Ethylmorpholine.....	100-74-3
3-Ethylphenol.....	620-17-7
Fluoroacetic acid, sodium salt.....	62-74-8
Formaldehyde.....	50-00-0
Formamide.....	75-12-7
Formic acid.....	64-18-6
Fumaric acid.....	110-17-8
Glutaric acid.....	110-94-1
Glycerin (Glycerol).....	56-81-5
Glycidol.....	556-52-5
Glycinamide.....	598-41-4
Glyphosate.....	1071-83-6
Guthion.....	86-50-0
Hexamethylene-1,6-diisocyanate (1,6-diisocyanatohexane). 822-06-0	
Hexamethyl phosphoramidate.....	680-31-9
Hexanoic acid.....	142-62-1
Hydrazine.....	302-01-2
Hydrocyanic acid.....	74-90-8
Hydroquinone.....	123-31-9
Hydroxy-2-propionitrile (hydracrylonitrile).....	109-78-4
Indeno (1,2,3-cd) pyrene.....	193-39-5
Lead acetate.....	301-04-2
Lead subacetate (lead acetate, monobasic).....	1335-32-6
Leucine.....	61-90-5
Malathion.....	121-75-5
Maleic acid.....	110-16-7
Maleic anhydride.....	108-31-6
Mesityl oxide.....	141-79-7
Methane sulfonic acid.....	75-75-2
Methomyl.....	16752-77-5
p-Methoxyphenol.....	150-76-5
Methyl acrylate.....	96-33-3
4,4'-Methylene-bis-(2-chloroaniline).....	101-14-4
4,4'-Methylenediphenyl diisocyanate (diphenyl methane diisocyanate).....	101-68-8

4,4'-Methylenedianiline.....	101-77-9
Methylene diphenylamine (MDA).....	
5-Methylfurfural.....	620-02-0
Methylhydrazine.....	60-34-4
Methyliminoacetic acid.....	
Methyl methane sulfonate.....	66-27-3
1-Methyl-2-methoxyaziridine.....	
Methylparathion.....	298-00-0
Methyl sulfuric acid (sulfuric acid, dimethyl ester).....	77-78-1
4-Methylthiophenol.....	106-45-6
Monomethylformamide (N-methylformamide).....	123-39-7
Nabam.....	142-59-6
alpha-Naphthol.....	90-15-3
beta-Naphthol.....	135-19-3
alpha-Naphthylamine.....	134-32-7
beta-Naphthylamine.....	91-59-8
Neopentyl glycol (dimethylolpropane).....	126-30-7
Niacinamide.....	98-92-0
o-Nitroaniline.....	88-74-4
Nitroglycerin.....	55-63-0
2-Nitrophenol.....	88-75-5
4-Nitrophenol.....	100-02-7
N-Nitrosodimethylamine.....	62-75-9
Nitrosoguanidine.....	674-81-7
N-Nitroso-n-methylurea.....	684-93-5
N-Nitrosomorpholine (4-nitrosomorpholine).....	59-89-2
Oxalic acid.....	144-62-7
Parathion.....	56-38-2
Pentaerythritol.....	115-77-5
Phenacetin.....	62-44-2
Phenol.....	108-95-2
Phenylacetic acid.....	103-82-2
m-Phenylene diamine.....	108-45-2
o-Phenylene diamine.....	95-54-5
p-Phenylene diamine.....	106-50-3
Phenyl mercuric acetate.....	62-38-4
Phorate.....	298-02-2
Phthalic anhydride.....	85-44-9
alpha-Picoline (2-methyl pyridine).....	109-06-8
1,3-Propane sulfone.....	1120-71-4
beta-Propiolactone.....	57-57-8
Proporur (Baygon).....	
Propylene glycol.....	57-55-6
Pyrene.....	129-00-0
Pyridinium bromide.....	39416-48-3
Quinoline.....	91-22-5
Quinone (p-benzoquinone).....	106-51-4
Resorcinol.....	108-46-3
Simazine.....	122-34-9
Sodium acetate.....	127-09-3
Sodium formate.....	141-53-7
Strychnine.....	57-24-9

Succinic acid.....	110-15-6
Succinimide.....	123-56-8
Sulfanilic acid.....	121-47-1
Terephthalic acid.....	100-21-0
Tetraethyldithiopyrophosphate.....	3689-24-5
Tetraethylenepentamine.....	112-57-2
Thiofanox.....	39196-18-4
Thiosemicarbazide.....	79-19-6
2,4-Toluenediamine.....	95-80-7
2,6-Toluenediamine.....	823-40-5
3,4-Toluenediamine.....	496-72-0
2,4-Toluene diisocyanate.....	584-84-9
p-Toluic acid.....	99-94-5
m-Toluidine.....	108-44-1
1,1,2-Trichloro-1,2,2-trifluoroethane.....	76-13-1
Triethanolamine.....	102-71-6
Triethylene glycol dimethyl ether.....	
Tripropylene glycol.....	24800-44-0
Warfarin.....	81-81-2
3,4-Xylenol (3,4-dimethylphenol).....	95-65-8
