

Environmental Protection Agency

Pt. 122, App. D

Pesticides
 Petroleum refining
 Pharmaceutical preparations
 Photographic equipment and supplies
 Plastics processing
 Plastic and synthetic materials manufacturing
 Porcelain enameling
 Printing and publishing
 Pulp and paper mills
 Rubber processing
 Soap and detergent manufacturing
 Steam electric power plants
 Textile mills
 Timber products processing

APPENDIX B TO PART 122 [RESERVED]

APPENDIX C TO PART 122—CRITERIA FOR DETERMINING A CONCENTRATED AQUATIC ANIMAL PRODUCTION FACILITY (§ 122.24)

A hatchery, fish farm, or other facility is a concentrated aquatic animal production facility for purposes of §122.24 if it contains, grows, or holds aquatic animals in either of the following categories:

(a) Cold water fish species or other cold water aquatic animals in ponds, raceways, or other similar structures which discharge at least 30 days per year but does not include:

(1) Facilities which produce less than 9,090 harvest weight kilograms (approximately 20,000 pounds) of aquatic animals per year; and

(2) Facilities which feed less than 2,272 kilograms (approximately 5,000 pounds) of food during the calendar month of maximum feeding.

(b) Warm water fish species or other warm water aquatic animals in ponds, raceways, or other similar structures which discharge at least 30 days per year, but does not include:

(1) Closed ponds which discharge only during periods of excess runoff; or

(2) Facilities which produce less than 45,454 harvest weight kilograms (approximately 100,000 pounds) of aquatic animals per year.

“Cold water aquatic animals” include, but are not limited to, the *Salmonidae* family of fish; e.g., trout and salmon.

“Warm water aquatic animals” include, but are not limited to, the *Ameiuride*, *Centrarchidae* and *Cyprinidae* families of fish; e.g., respectively, catfish, sunfish and minnows.

APPENDIX D TO PART 122—NPDES PERMIT APPLICATION TESTING REQUIREMENTS (§ 122.21)

TABLE I—TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS BY INDUSTRIAL CATEGORY FOR EXISTING DISCHARGERS

Industrial category	GC/MS Fraction ¹			
	Volatile	Acid	Base/neutral	Pesticide
Adhesives and Sealants	2	2	2	
Aluminum Forming	2	2	2	
Auto and Other Laundries	2	2	2	2
Battery Manufacturing	2		2	
Coal Mining	2	2	2	2
Coil Coating	2	2	2	
Copper Forming	2	2	2	
Electric and Electronic Components	2	2	2	2
Electroplating	2	2	2	
Explosives Manufacturing		2	2	
Foundries	2	2	2	
Gum and Wood Chemicals	2	2	2	2
Inorganic Chemicals Manufacturing	2	2	2	
Iron and Steel Manufacturing	2	2	2	
Leather Tanning and Finishing	2	2	2	2
Mechanical Products Manufacturing	2	2	2	
Nonferrous Metals Manufacturing	2	2	2	2
Ore Mining	2	2	2	2
Organic Chemicals Manufacturing	2	2	2	2
Paint and Ink Formulation	2	2	2	2
Pesticides	2	2	2	2
Petroleum Refining	2	2	2	2
Pharmaceutical Preparations	2	2	2	
Photographic Equipment and Supplies	2	2	2	2
Plastic and Synthetic Materials Manufacturing	2	2	2	2
Plastic Processing	2		2	2
Porcelain Enameling	2		2	
Printing and Publishing	2	2	2	2
Pulp and Paper Mills	2	2	2	2
Rubber Processing	2	2	2	
Soap and Detergent Manufacturing	2	2	2	
Steam Electric Power Plants	2	2	2	
Textile Mills	2	2	2	2
Timber Products Processing	2	2	2	2

¹ The toxic pollutants in each fraction are listed in Table II.
² Testing required.

Pt. 122, App. D

40 CFR Ch. I (7-1-13 Edition)

TABLE II—ORGANIC TOXIC POLLUTANTS IN EACH OF FOUR FRACTIONS IN ANALYSIS BY GAS CHROMATOGRAPHY/MASS SPECTROSCOPY (GS/MS)

	<i>Volatiles</i>		
1V	acrolein	18B	chrysene
2V	acrylonitrile	19B	dibenzo(a,h)anthracene
3V	benzene	20B	1,2-dichlorobenzene
5V	bromoform	21B	1,3-dichlorobenzene
6V	carbon tetrachloride	22B	1,4-dichlorobenzene
7V	chlorobenzene	23B	3,3'-dichlorobenzidine
8V	chlorodibromomethane	24B	diethyl phthalate
9V	chloroethane	25B	dimethyl phthalate
10V	2-chloroethylvinyl ether	26B	di-n-butyl phthalate
11V	chloroform	27B	2,4-dinitrotoluene
12V	dichlorobromomethane	28B	2,6-dinitrotoluene
14V	1,1-dichloroethane	29B	di-n-octyl phthalate
15V	1,2-dichloroethane	30B	1,2-diphenylhydrazine (as azobenzene)
16V	1,1-dichloroethylene	31B	fluroanthene
17V	1,2-dichloropropane	32B	fluorene
18V	1,3-dichloropropylene	33B	hexachlorobenzene
19V	ethylbenzene	34B	hexachlorobutadiene
20V	methyl bromide	35B	hexachlorocyclopentadiene
21V	methyl chloride	36B	hexachloroethane
22V	methylene chloride	37B	indeno(1,2,3-cd)pyrene
23V	1,1,2,2-tetrachloroethane	38B	isophorone
24V	tetrachloroethylene	39B	naphthalene
25V	toluene	40B	nitrobenzene
26V	1,2-trans-dichloroethylene	41B	N-nitrosodimethylamine
27V	1,1,1-trichloroethane	42B	N-nitrosodi-n-propylamine
28V	1,1,2-trichloroethane	43B	N-nitrosodiphenylamine
29V	trichloroethylene	44B	phenanthrene
31V	vinyl chloride	45B	pyrene
		46B	1,2,4-trichlorobenzene
	<i>Acid Compounds</i>		<i>Pesticides</i>
1A	2-chlorophenol	1P	aldrin
2A	2,4-dichlorophenol	2P	alpha-BHC
3A	2,4-dimethylphenol	3P	beta-BHC
4A	4,6-dinitro-o-cresol	4P	gamma-BHC
5A	2,4-dinitrophenol	5P	delta-BHC
6A	2-nitrophenol	6P	chlordan
7A	4-nitrophenol	7P	4,4'-DDT
8A	p-chloro-m-cresol	8P	4,4'-DDE
9A	pentachlorophenol	9P	4,4'-DDD
10A	phenol	10P	dieldrin
11A	2,4,6-trichlorophenol	11P	alpha-endosulfan
		12P	beta-endosulfan
	<i>Base/Neutral</i>	13P	endosulfan sulfate
1B	acenaphthene	14P	endrin
2B	acenaphthylene	15P	endrin aldehyde
3B	anthracene	16P	heptachlor
4B	benzidine	17P	heptachlor epoxide
5B	benzo(a)anthracene	18P	PCB-1242
6B	benzo(a)pyrene	19P	PCB-1254
7B	3,4-benzofluoranthene	20P	PCB-1221
8B	benzo(ghi)perylene	21P	PCB-1232
9B	benzo(k)fluoranthene	22P	PCB-1248
10B	bis(2-chloroethoxy)methane	23P	PCB-1260
11B	bis(2-chloroethyl)ether	24P	PCB-1016
12B	bis(2-chloroisopropyl)ether	25P	toxaphene
13B	bis(2-ethylhexyl)phthalate		
14B	4-bromophenyl phenyl ether		TABLE III—OTHER TOXIC POLLUTANTS (METALS AND CYANIDE) AND TOTAL PHENOLS
15B	butylbenzyl phthalate	Antimony, Total	
16B	2-chloronaphthalene	Arsenic, Total	
17B	4-chlorophenyl phenyl ether	Beryllium, Total	
		Cadmium, Total	
		Chromium, Total	
		Copper, Total	
		Lead, Total	

Environmental Protection Agency

Pt. 122, App. D

Mercury, Total
 Nickel, Total
 Selenium, Total
 Silver, Total
 Thallium, Total
 Zinc, Total
 Cyanide, Total
 Phenols, Total

TABLE IV—CONVENTIONAL AND NONCONVENTIONAL POLLUTANTS REQUIRED TO BE TESTED BY EXISTING DISCHARGERS IF EXPECTED TO BE PRESENT

Bromide
 Chlorine, Total Residual
 Color
 Fecal Coliform
 Fluoride
 Nitrate-Nitrite
 Nitrogen, Total Organic
 Oil and Grease
 Phosphorus, Total
 Radioactivity
 Sulfate
 Sulfide
 Sulfite
 Surfactants
 Aluminum, Total
 Barium, Total
 Boron, Total
 Cobalt, Total
 Iron, Total
 Magnesium, Total
 Molybdenum, Total
 Manganese, Total
 Tin, Total
 Titanium, Total

TABLE V—TOXIC POLLUTANTS AND HAZARDOUS SUBSTANCES REQUIRED TO BE IDENTIFIED BY EXISTING DISCHARGERS IF EXPECTED TO BE PRESENT

Toxic Pollutants

Asbestos

Hazardous Substances

Acetaldehyde
 Allyl alcohol
 Allyl chloride
 Amyl acetate
 Aniline
 Benzotrile
 Benzyl chloride
 Butyl acetate
 Butylamine
 Captan
 Carbaryl
 Carbofuran
 Carbon disulfide
 Chlorpyrifos
 Coumaphos
 Cresol
 Crotonaldehyde
 Cyclohexane
 2,4-D (2,4-Dichlorophenoxy acetic acid)

Diazinon
 Dicamba
 Dichlobenil
 Dichlone
 2,2-Dichloropropionic acid
 Dichlorvos
 Diethyl amine
 Dimethyl amine
 Dintobenzene
 Diquat
 Disulfoton
 Diuron
 Epichlorohydrin
 Ethion
 Ethylene diamine
 Ethylene dibromide
 Formaldehyde
 Furfural
 Guthion
 Isoprene
 Isopropanolamine Dodecylbenzenesulfonate
 Kelthane
 Kepone
 Malathion
 Mercaptodimethur
 Methoxychlor
 Methyl mercaptan
 Methyl methacrylate
 Methyl parathion
 Mevinphos
 Mexacarbate
 Monoethyl amine
 Monomethyl amine
 Naled
 Napthenic acid
 Nitrotoluene
 Parathion
 Phenolsulfanate
 Phosgene
 Propargite
 Propylene oxide
 Pyrethrins
 Quinoline
 Resorcinol
 Strontium
 Strychnine
 Styrene
 2,4,5-T (2,4,5-Trichlorophenoxy acetic acid)
 TDE (Tetrachlorodiphenylethane)
 2,4,5-TP [2-(2,4,5-Trichlorophenoxy) propanoic acid]
 Trichlorofan
 Triethanolamine dodecylbenzenesulfonate
 Triethylamine
 Trimethylamine
 Uranium
 Vanadium
 Vinyl acetate
 Xylene
 Xylenol
 Zirconium

[Note 1: The Environmental Protection Agency has suspended the requirements of §122.21(g)(7)(ii)(A) and Table I of Appendix D as they apply to certain industrial categories. The suspensions are as follows:

a. At 46 FR 2046, Jan. 8, 1981, the Environmental Protection Agency suspended until further notice §122.21(g)(7)(ii)(A) as it applies to coal mines.

b. At 46 FR 22585, Apr. 20, 1981, the Environmental Protection Agency suspended until further notice §122.21(g)(7)(ii)(A) and the corresponding portions of Item V-C of the NPDES application Form 2c as they apply to:

1. Testing and reporting for all four organic fractions in the Greige Mills Subcategory of the Textile Mills industry (Subpart C—Low water use processing of 40 CFR part 410), and testing and reporting for the pesticide fraction in all other subcategories of this industrial category.

2. Testing and reporting for the volatile, base/neutral and pesticide fractions in the Base and Precious Metals Subcategory of the Ore Mining and Dressing industry (subpart B of 40 CFR part 440), and testing and reporting for all four fractions in all other subcategories of this industrial category.

3. Testing and reporting for all four GC/MS fractions in the Porcelain Enameling industry.

c. At 46 FR 35090, July 1, 1981, the Environmental Protection Agency suspended until further notice §122.21(g)(7)(ii)(A) and the corresponding portions of Item V-C of the NPDES application Form 2c as they apply to:

1. Testing and reporting for the pesticide fraction in the Tall Oil Rosin Subcategory (subpart D) and Rosin-Based Derivatives Subcategory (subpart F) of the Gum and Wood Chemicals industry (40 CFR part 454), and testing and reporting for the pesticide and base/neutral fractions in all other subcategories of this industrial category.

2. Testing and reporting for the pesticide fraction in the Leather Tanning and Finishing, Paint and Ink Formulation, and Photographic Supplies industrial categories.

3. Testing and reporting for the acid, base/neutral and pesticide fractions in the Petroleum Refining industrial category.

4. Testing and reporting for the pesticide fraction in the Papergrade Sulfite subcategories (subparts J and U) of the Pulp and Paper industry (40 CFR part 430); testing and reporting for the base/neutral and pesticide fractions in the following subcategories: Deink (subpart Q), Dissolving Kraft (subpart F), and Paperboard from Waste Paper (subpart E); testing and reporting for the volatile, base/neutral and pesticide fractions in the following subcategories: BCT Bleached Kraft (subpart H), Semi-Chemical (subparts B and C), and Nonintegrated-Fine Papers (subpart R); and testing and reporting for the acid, base/neutral, and pesticide fractions in the following subcategories: Fine Bleached Kraft (subpart I), Dissolving Sulfite Pulp (subpart K), Groundwood-Fine Papers (subpart O), Market Bleached Kraft (subpart G),

Tissue from Wastepaper (subpart T), and Nonintegrated-Tissue Papers (subpart S).

5. Testing and reporting for the base/neutral fraction in the Once-Through Cooling Water, Fly Ash and Bottom Ash Transport Water process wastestreams of the Steam Electric Power Plant industrial category.

This revision continues these suspensions.]*

For the duration of the suspensions, therefore, Table I effectively reads:

TABLE I—TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS BY INDUSTRY CATEGORY

Industry category	GC/MS fraction ²			
	Volatile	Acid	Neutral	Pesticide
Adhesives and sealants	(1)	(1)	(1)	
Aluminum forming	(1)	(1)	(1)	
Auto and other laundries ...	(1)	(1)	(1)	(1)
Battery manufacturing	(1)		(1)	
Coal mining				
Coil coating	(1)	(1)	(1)	
Copper forming	(1)	(1)	(1)	
Electric and electronic compounds	(1)	(1)	(1)	(1)
Electroplating	(1)	(1)	(1)	
Explosives manufacturing		(1)	(1)	
Foundries	(1)	(1)	(1)	
Gum and wood (all subparts except D and F) ...	(1)	(1)		
Subpart D—tall oil rosin ...	(1)	(1)	(1)	
Subpart F—rosin-based derivatives	(1)	(1)	(1)	
Inorganic chemicals manufacturing	(1)	(1)	(1)	
Iron and steel manufacturing	(1)	(1)	(1)	
Leather tanning and finishing	(1)	(1)	(1)	
Mechanical products manufacturing	(1)	(1)	(1)	
Nonferrous metals manufacturing	(1)	(1)	(1)	(1)
Ore mining (applies to the base and precious metals/Subpart B)		(1)		
Organic chemicals manufacturing	(1)	(1)	(1)	(1)
Paint and ink formulation ..	(1)	(1)	(1)	
Pesticides	(1)	(1)	(1)	(1)
Petroleum refining	(1)			
Pharmaceutical preparations	(1)	(1)	(1)	
Photographic equipment and supplies	(1)	(1)	(1)	
Plastic and synthetic materials manufacturing	(1)	(1)	(1)	(1)
Plastic processing	(1)			
Porcelain enameling				
Printing and publishing	(1)	(1)	(1)	(1)
Pulp and paperboard mills—see footnote ³				
Rubber processing	(1)	(1)	(1)	
Soap and detergent manufacturing	(1)	(1)	(1)	

* Editorial Note: The words "This revision" refer to the document published at 48 FR 14153, Apr. 1, 1983.

Environmental Protection Agency

Pt. 122, App. E

TABLE I—TESTING REQUIREMENTS FOR ORGANIC TOXIC POLLUTANTS BY INDUSTRY CATEGORY—Continued

Industry category	GC/MS fraction ²			
	Volatile	Acid	Neutral	Pesticide
Steam electric power plants	(1)	(1)		
Textile mills (Subpart C—Greige Mills are exempt from this table)	(1)	(1)	(1)	
Timber products processing	(1)	(1)	(1)	(1)

¹ Testing required.
² The pollutants in each fraction are listed in Item V-C.
³ Pulp and Paperboard Mills.

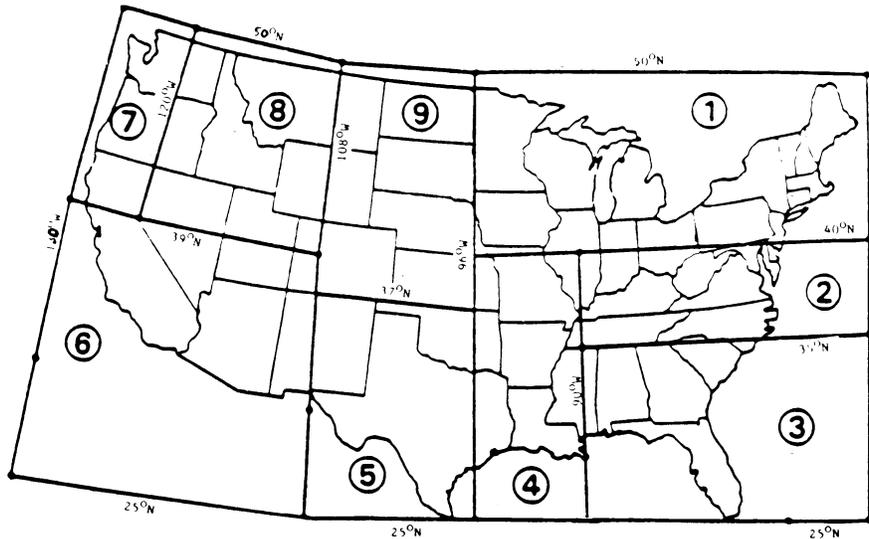
Subpart ³	GS/MS fractions			
	VOA	Acid	Base/neutral	Pesticides
A	2	(1)	2	(1)
B	2	(1)	2	2
C	2	(1)	2	2
D	2	(1)	2	2

Subpart ³	GS/MS fractions			
	VOA	Acid	Base/neutral	Pesticides
E	(1)	(1)	2	(1)
F	(1)	(1)	2	2
G	(1)	(1)	2	2
H	(1)	(1)	2	2
I	(1)	(1)	2	2
J	(1)	(1)	(1)	2
K	(1)	(1)	2	2
L	(1)	(1)	2	2
M	(1)	(1)	2	2
N	(1)	(1)	2	2
O	(1)	(1)	2	2
P	(1)	(1)	2	2
Q	(1)	(1)	2	(1)
R	(1)	(1)	2	2
S	(1)	(1)	2	(1)
T	(1)	(1)	2	(1)
U	(1)	(1)	(1)	2

¹ Must test.
² Do not test unless "reason to believe" it is discharged.
³ Subparts are defined in 40 CFR Part 430.

[48 FR 14153, Apr. 1, 1983, as amended at 49 FR 38050, Sept. 26, 1984; 50 FR 6940, Feb. 19, 1985]

APPENDIX E TO PART 122—RAINFALL ZONES OF THE UNITED STATES



Not Shown: Alaska (Zone 7); Hawaii (Zone 7); Northern Mariana Islands (Zone 7); Guam (Zone 7); American Samoa (Zone 7); Trust Territory of the Pacific Islands (Zone 7); Puerto Rico (Zone 3) Virgin Islands (Zone 3).

Source: Methodology for Analysis of Detention Basins for Control of Urban Runoff Quality, prepared for U.S. Environmental Protection Agency, Office of Water, Nonpoint Source Division, Washington, DC, 1986.

[55 FR 48073, Nov. 16, 1990]