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40 CFR Ch. I (7-1-10 Edition)

“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 <sup>1</sup>			
	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	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			
Porcelain Enameling .....	2		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

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

Industrial category	GC/MS Fraction <sup>1</sup>			
	Volatile	Acid	Base/neutral	Pesticide
Timber Products Processing .....	2	2	2	2

<sup>1</sup> The toxic pollutants in each fraction are listed in Table II.  
<sup>2</sup> Testing required.

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

<i>Volatiles</i>	
1V	acrolein
2V	acrylonitrile
3V	benzene
5V	bromoform
6V	carbon tetrachloride
7V	chlorobenzene
8V	chlorodibromomethane
9V	chloroethane
10V	2-chloroethylvinyl ether
11V	chloroform
12V	dichlorobromomethane
14V	1,1-dichloroethane
15V	1,2-dichloroethane
16V	1,1-dichloroethylene
17V	1,2-dichloropropane
18V	1,3-dichloropropylene
19V	ethylbenzene
20V	methyl bromide
21V	methyl chloride
22V	methylene chloride
23V	1,1,2,2-tetrachloroethane
24V	tetrachloroethylene
25V	toluene
26V	1,2-trans-dichloroethylene
27V	1,1,1-trichloroethane
28V	1,1,2-trichloroethane
29V	trichloroethylene
31V	vinyl chloride
<i>Acid Compounds</i>	
1A	2-chlorophenol
2A	2,4-dichlorophenol
3A	2,4-dimethylphenol
4A	4,6-dinitro-o-cresol
5A	2,4-dinitrophenol
6A	2-nitrophenol
7A	4-nitrophenol
8A	p-chloro-m-cresol
9A	pentachlorophenol
10A	phenol
11A	2,4,6-trichlorophenol
<i>Base/Neutral</i>	
1B	acenaphthene
2B	acenaphthylene
3B	anthracene

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- 4B benzidine
- 5B benzo(a)anthracene
- 6B benzo(a)pyrene
- 7B 3,4-benzofluoranthene
- 8B benzo(ghi)perylene
- 9B benzo(k)fluoranthene
- 10B bis(2-chloroethoxy)methane
- 11B bis(2-chloroethyl)ether
- 12B bis(2-chloroisopropyl)ether
- 13B bis (2-ethylhexyl)phthalate
- 14B 4-bromophenyl phenyl ether
- 15B butylbenzyl phthalate
- 16B 2-chloronaphthalene
- 17B 4-chlorophenyl phenyl ether
- 18B chrysene
- 19B dibenzo(a,h)anthracene
- 20B 1,2-dichlorobenzene
- 21B 1,3-dichlorobenzene
- 22B 1,4-dichlorobenzene
- 23B 3,3'-dichlorobenzidine
- 24B diethyl phthalate
- 25B dimethyl phthalate
- 26B di-n-butyl phthalate
- 27B 2,4-dinitrotoluene
- 28B 2,6-dinitrotoluene
- 29B di-n-octyl phthalate
- 30B 1,2-diphenylhydrazine (as azobenzene)
- 31B fluoranthene
- 32B fluorene
- 33B hexachlorobenzene
- 34B hexachlorobutadiene
- 35B hexachlorocyclopentadiene
- 36B hexachloroethane
- 37B indeno(1,2,3-cd)pyrene
- 38B isophorone
- 39B naphthalene
- 40B nitrobenzene
- 41B N-nitrosodimethylamine
- 42B N-nitrosodi-n-propylamine
- 43B N-nitrosodiphenylamine
- 44B phenanthrene
- 45B pyrene
- 46B 1,2,4-trichlorobenzene

*Pesticides*

- 1P aldrin
- 2P alpha-BHC
- 3P beta-BHC
- 4P gamma-BHC
- 5P delta-BHC
- 6P chlordane
- 7P 4,4'-DDT
- 8P 4,4'-DDE
- 9P 4,4'-DDD
- 10P dieldrin
- 11P alpha-endosulfan
- 12P beta-endosulfan
- 13P endosulfan sulfate
- 14P endrin
- 15P endrin aldehyde
- 16P heptachlor
- 17P heptachlor epoxide
- 18P PCB-1242
- 19P PCB-1254
- 20P PCB-1221
- 21P PCB-1232
- 22P PCB-1248

- 23P PCB-1260
- 24P PCB-1016
- 25P toxaphene

TABLE III—OTHER TOXIC POLLUTANTS  
(METALS AND CYANIDE) AND TOTAL PHENOLS

- Antimony, Total
- Arsenic, Total
- Beryllium, Total
- Cadmium, Total
- Chromium, Total
- Copper, Total
- Lead, Total
- 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
- Benzonitrile

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  
 Dintrobenzene  
 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) pro-  
 panoic 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

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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 <sup>2</sup>			
	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)	(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)			

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

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

Industry category	GC/MS fraction <sup>2</sup>			
	Volatile	Acid	Neutral	Pesticide
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 <sup>3</sup> .				
Rubber processing .....	(1)	(1)	(1)	
Soap and detergent manufacturing .....	(1)	(1)	(1)	
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)

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

Subpart <sup>3</sup>	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
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 .....	2	(1)	2	2
S .....	(1)	(1)	2	(1)
T .....	(1)	(1)	2	(1)
U .....	(1)	(1)	(1)	2

<sup>1</sup> Must test.  
<sup>2</sup> Do not test unless "reason to believe" it is discharged.  
<sup>3</sup> 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]