

SEMIVOLATILE ORGANICS
STANDARD REPORTING LIMITS

**Semivolatile Organics in Waste Water
EPA 625**

CAS #	Compound	Water RL µg/L
83-32-9	Acenaphthene	10
208-96-8	Acenaphthylene	10
120-12-7	Anthracene	10
56-55-3	Benzo(a)anthracene	10
50-32-8	Benzo(a)pyrene	10
205-99-2	Benzo(b)fluoranthene	10
207-08-9	Benzo(k)fluoranthene	10
191-24-2	Benzo(g,h,i)perylene	10
111-91-1	bis(2-Chloroethoxy)methane	10
111-44-4	bis(2-Chloroethyl)ether	10
108-60-1	bis(2-Chloroisopropyl)ether	10
117-81-7	bis(2-Ethylhexyl)phthalate	10
101-55-3	4-Bromophenyl-phenylether	10
85-68-7	Butylbenzylphthalate	10
91-58-7	2-Chloronaphthalene	10
7005-72-3	4-Chlorophenyl-phenylether	10
218-01-9	Chrysene	10
53-70-3	Dibenz(a,h)anthracene	10
95-50-1	1,2-Dichlorobenzene	10
541-73-1	1,3-Dichlorobenzene	10
106-46-7	1,4-Dichlorobenzene	10
91-94-1	3,3'-Dichlorobenzidine	20
84-74-2	Di-n-butylphthalate	10
84-66-2	Diethylphthalate	10
131-11-3	Dimethylphthalate	10
121-14-2	2,4-Dinitrotoluene	10
606-20-2	2,6-Dinitrotoluene	10
117-84-0	Di-n-octylphthalate	10
206-44-0	Fluoranthene	10
86-73-7	Fluorene	10
118-74-1	Hexachlorobenzene	10
87-68-3	Hexachlorobutadiene	10
67-72-1	Hexachloroethane	10
193-39-5	Indeno(1,2,3-cd)pyrene	10
78-59-1	Isophorone	10
91-20-3	Naphthalene	10
98-95-3	Nitrobenzene	10
621-64-7	N-Nitroso-di-n-propylamine	10
85-01-8	Phenanthrene	10
129-00-0	Pyrene	10
120-82-1	1,2,4-Trichlorobenzene	10

Additional BNA compounds from the 8270 list may be added upon request.

Surrogates:

321-60-8	2-Fluorobiphenyl
367-12-4	2-Fluorophenol
4165-60-0	Nitrobenzene-d5
13127-88-3	Phenol-d5
1718-51-0	Terphenyl-d14
118-79-6	2,4,6-Tribromophenol

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Curtis & Tompkins, Ltd.

Extractable Hydrocarbons (TPH-D)
EPA 8015B

CAS #	Compound	Water RL µg/L	Soil RL mg/Kg
68334-30-5	Diesel	50	1
Additional Compounds (may be added to the compound list):			
	Bunker C	300	5
	Commercial Jet Fuel	50	1
	JP-5 Jet Fuel	50	1
	Kerosene	50	1
	Hydraulic Fluid	300	5
	Motor Oil	300	5
	Transformer Oil	300	5
Surrogate:			
630-01-3	Hexacosane		

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Chlorinated Pesticides
EPA 608 or EPA 8081A

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
309-00-2	Aldrin	0.05	1.7
319-84-6	alpha-BHC	0.05	1.7
319-85-7	beta-BHC	0.05	1.7
319-86-8	delta-BHC	0.05	1.7
58-89-9	gamma-BHC (Lindane)	0.05	1.7
5103-71-9	alpha-Chlordane	0.05	1.7
5103-74-2	gamma-Chlordane	0.05	1.7
72-54-8	4,4'-DDD	0.1	3.3
72-55-9	4,4'-DDE	0.1	3.3
50-29-3	4,4'-DDT	0.1	3.3
60-57-1	Dieldrin	0.1	3.3
959-98-8	Endosulfan I	0.05	1.7
33213-65-9	Endosulfan II	0.1	3.3
1031-07-8	Endosulfan sulfate	0.1	3.3
72-20-8	Endrin	0.1	3.3
7421-93-4	Endrin aldehyde	0.1	3.3
76-44-8	Heptachlor	0.05	1.7
1024-57-3	Heptachlor epoxide	0.05	1.7
72-43-5	Methoxychlor	0.5	17
8001-35-2	Toxaphene	1	60
Additional Compounds (may be added to the compound list):			
57-74-9	Chlordane (technical)	1.0	30
53494-70-5	Endrin ketone	0.1	3.3
Surrogates:			
2051-24-3	Decachlorobiphenyl (DCB)		
877-35-2	Tetrachloro-m-xylene (TCMX)		

Polychlorinated Biphenyls (PCB)
EPA 608 or EPA 8082

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
12674-11-2	Aroclor-1016	0.5	12
11104-28-2	Aroclor-1221	1	24
11141-16-5	Aroclor-1232	0.5	12
53469-21-9	Aroclor-1242	0.5	12
12672-29-6	Aroclor-1248	0.5	12
11097-69-1	Aroclor-1254	0.5	12
11096-82-5	Aroclor-1260	0.5	12
Surrogates:			
2051-24-3	Decachlorobiphenyl (DCB)		
877-35-2	Tetrachloro-m-xylene (TCMX)		

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Curtis & Tompkins, Ltd.

PCB Congeners
EPA 8082

BZ #	Compound	Water RL µg/L	Soil RL µg/Kg
8	2,4'-Dichlorobiphenyl	0.05	0.5
18	2,2',5'-Trichlorobiphenyl	0.05	0.5
28	2,4,4'-Trichlorobiphenyl	0.05	0.5
44	2,2',3,5'-Tetrachlorobiphenyl	0.05	0.5
52	2,2',5,5'-Tetrachlorobiphenyl	0.05	0.5
66	2,3',4,4'-Tetrachlorobiphenyl	0.05	0.5
77	3,3',4,4'-Tetrachlorobiphenyl	0.05	0.5
81	3,4,4',5'-Tetrachlorobiphenyl	0.05	0.5
101	2,2',4,5,5'-Pentachlorobiphenyl	0.05	0.5
105	2,3,3',4,4'-Pentachlorobiphenyl	0.05	0.5
114	2,3,4,4',5'-Pentachlorobiphenyl	0.05	0.5
118	2,3',4,4',5'-Pentachlorobiphenyl	0.05	0.5
123	2,3',4,4',5'-Pentachlorobiphenyl	0.05	0.5
126	3,3',4,4',5'-Pentachlorobiphenyl	0.05	0.5
128	2,2',3,3',4,4'-Hexachlorobiphenyl	0.05	0.5
138	2,2',3,4,4',5'-Hexachlorobiphenyl	0.05	0.5
153	2,2',4,4',5,5'-Hexachlorobiphenyl	0.05	0.5
156	2,3,3',4,4',5'-Hexachlorobiphenyl	0.05	0.5
157	2,3,3',4,4',5'-Hexachlorobiphenyl	0.05	0.5
167	2,3',4,4',5,5'-Hexachlorobiphenyl	0.05	0.5
169	3,3',4,4',5,5'-Hexachlorobiphenyl	0.05	0.5
170	2,2',3,3',4,4',5'-Heptachlorobiphenyl	0.05	0.5
180	2,2',3,4,4',5,5'-Heptachlorobiphenyl	0.05	0.5
187	2,2',3,4',5,5',6-Heptachlorobiphenyl	0.05	0.5
189	2,3,3',4,4',5,5'-Heptachlorobiphenyl	0.05	0.5
195	2,2',3,3',4,4',5,6-Octachlorobiphenyl	0.05	0.5
206	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	0.05	0.5
209	Decachlorobiphenyl	0.05	0.5
Surrogates:			
205	2,3,3',4,4',5,5',6-Octachlorobiphenyl		
	Tetrachloro-m-xylene (TCMX)		

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Semivolatile Organics
EPA 8270C

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
83-32-9	Acenaphthene	10	67
208-96-8	Acenaphthylene	10	67
120-12-7	Anthracene	10	67
103-33-3	Azobenzene	10	330
56-55-3	Benzo(a)anthracene	10	67
50-32-8	Benzo(a)pyrene	10	67
205-99-2	Benzo(b)fluoranthene	10	67
207-08-9	Benzo(k)fluoranthene	10	67
191-24-2	Benzo(g,h,i)perylene	10	67
65-85-0	Benzoic acid	50	1,700
100-51-6	Benzyl alcohol	10	330
111-91-1	bis(2-Chloroethoxy)methane	10	330
111-44-4	bis(2-Chloroethyl)ether	10	330
108-60-1	bis(2-Chloroisopropyl)ether	10	330
117-81-7	bis(2-Ethylhexyl)phthalate	10	330
101-55-3	4-Bromophenyl-phenylether	10	330
85-68-7	Butylbenzylphthalate	10	330
106-47-8	4-Chloroaniline	10	330
59-50-7	4-Chloro-3-methylphenol	10	330
91-58-7	2-Chloronaphthalene	10	330
95-57-8	2-Chlorophenol	10	330
7005-72-3	4-Chlorophenyl-phenylether	10	330
218-01-9	Chrysene	10	67
53-70-3	Dibenz(a,h)anthracene	10	67
132-64-9	Dibenzofuran	10	330
95-50-1	1,2-Dichlorobenzene	10	330
541-73-1	1,3-Dichlorobenzene	10	330
106-46-7	1,4-Dichlorobenzene	10	330
91-94-1	3,3'-Dichlorobenzidine	20	670
120-83-2	2,4-Dichlorophenol	10	330
84-66-2	Diethylphthalate	10	330
105-67-9	2,4-Dimethylphenol	10	330
131-11-3	Dimethylphthalate	10	330
84-74-2	Di-n-butylphthalate	10	330
534-52-1	4,6-Dinitro-2-methylphenol	20	670
51-28-5	2,4-Dinitrophenol	20	670
121-14-2	2,4-Dinitrotoluene	10	330
606-20-2	2,6-Dinitrotoluene	10	330
117-84-0	Di-n-octylphthalate	10	330
206-44-0	Fluoranthene	10	67
86-73-7	Fluorene	10	67
118-74-1	Hexachlorobenzene	10	330
87-68-3	Hexachlorobutadiene	10	330
77-47-4	Hexachlorocyclopentadiene	20	670
67-72-1	Hexachloroethane	10	330
193-39-5	Indeno(1,2,3-cd)pyrene	10	67
78-59-1	Isophorone	10	330
91-57-6	2-Methylnaphthalene	10	67
95-48-7	2-Methylphenol	10	330
1319-77-3	4-Methylphenol (coelutes w/ 3-)	10	330
88-74-4	2-Nitroaniline	20	670
99-09-2	3-Nitroaniline	20	670
100-01-6	4-Nitroaniline	20	670
88-75-5	2-Nitrophenol	20	670
100-02-7	4-Nitrophenol	20	670
621-64-7	N-Nitroso-di-n-propylamine	10	330
62-75-9	N-Nitrosodimethylamine	10	330

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Semivolatile Organics

EPA 8270C

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
86-30-6	N-Nitrosodiphenylamine	10	330
91-20-3	Naphthalene	10	67
98-95-3	Nitrobenzene	10	330
87-86-5	Pentachlorophenol	20	670
85-01-8	Phenanthrene	10	67
108-95-2	Phenol	10	330
129-00-0	Pyrene	10	67
120-82-1	1,2,4-Trichlorobenzene	10	330
95-95-4	2,4,5-Trichlorophenol	10	330
88-06-2	2,4,6-Trichlorophenol	10	330
Surrogates:			
321-60-8	2-Fluorobiphenyl		
367-12-4	2-Fluorophenol		
4165-60-0	Nitrobenzene-d5		
13127-88-3	Phenol-d5		
1718-51-0	Terphenyl-d14		
118-79-6	2,4,6-Tribromophenol		

Polynuclear Aromatic Hydrocarbons (PAH)

EPA 8270C

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
83-32-9	Acenaphthene	10	67
208-96-8	Acenaphthylene	10	67
120-12-7	Anthracene	10	67
56-55-3	Benzo(a)anthracene	10	67
50-32-8	Benzo(a)pyrene	10	67
205-99-2	Benzo(b)fluoranthene	10	67
207-08-9	Benzo(k)fluoranthene	10	67
191-24-2	Benzo(g,h,i)perylene	10	67
218-01-9	Chrysene	10	67
53-70-3	Dibenz(a,h)anthracene	10	67
206-44-0	Fluoranthene	10	67
86-73-7	Fluorene	10	67
193-39-5	Indeno(1,2,3-cd)pyrene	10	67
91-20-3	Naphthalene	10	67
85-01-8	Phenanthrene	10	67
129-00-0	Pyrene	10	67
Surrogates:			
321-60-8	2-Fluorobiphenyl		
4165-60-0	Nitrobenzene-d5		
1718-51-0	Terphenyl-d14		

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1,4-Dioxane
EPA 8270-SIM

CAS #	Compound	Water RL µg/L
123-91-1	1,4-Dioxane	1
Surrogates:		
321-60-8	2-Fluorobiphenyl	
4165-60-0	Nitrobenzene-d5	

Polynuclear Aromatic Hydrocarbons (PAH) by Selected Ion Monitoring
EPA 8270C - SIM

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
83-32-9	Acenaphthene	0.1	5
208-96-8	Acenaphthylene	0.1	5
120-12-7	Anthracene	0.1	5
56-55-3	Benzo(a)anthracene	0.1	5
50-32-8	Benzo(a)pyrene	0.1	5
205-99-2	Benzo(b)fluoranthene	0.1	5
207-08-9	Benzo(k)fluoranthene	0.1	5
191-24-2	Benzo(g,h,i)perylene	0.1	5
218-01-9	Chrysene	0.1	5
53-70-3	Dibenz(a,h)anthracene	0.1	5
206-44-0	Fluoranthene	0.1	5
86-73-7	Fluorene	0.1	5
193-39-5	Indeno(1,2,3-cd)pyrene	0.1	5
91-20-3	Naphthalene	0.1	5
85-01-8	Phenanthrene	0.1	5
129-00-0	Pyrene	0.1	5
Additional Compounds (may be added to the compound list):			
90-12-0	1-Methylnaphthalene	0.1	5
91-57-6	2-Methylnaphthalene	0.1	5
Surrogates:			
321-60-8	2-Fluorobiphenyl		
4165-60-0	Nitrobenzene-d5		
1718-51-0	Terphenyl-d14		

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Curtis & Tompkins, Ltd.

Phenols (EPA 8040 Compound List)
EPA 8270C

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
59-50-7	4-Chloro-3-methylphenol	10	330
95-57-8	2-Chlorophenol	10	330
120-83-2	2,4-Dichlorophenol	10	330
105-67-9	2,4-Dimethylphenol	10	330
534-52-1	4,6-Dinitro-2-methylphenol	20	1,700
51-28-5	2,4-Dinitrophenol	20	1,700
95-48-7	2-Methylphenol	10	330
1319-77-3	3-,4-Methylphenol	10	330
88-75-5	2-Nitrophenol	20	670
100-02-7	4-Nitrophenol	20	670
87-86-5	Pentachlorophenol	20	670
108-95-2	Phenol	10	330
95-95-4	2,4,5-Trichlorophenol	10	330
88-06-2	2,4,6-Trichlorophenol	10	330
Surrogates:			
367-12-4	2-Fluorophenol		
13127-88-3	Phenol-d5		
118-79-6	2,4,6-Tribromophenol		

Phthalates (EPA 8060 Compound List)
EPA 8270C

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
85-68-7	Butylbenzylphthalate	10	330
84-66-2	Diethylphthalate	10	330
131-11-3	Dimethylphthalate	10	330
84-74-2	Di-n-butylphthalate	10	330
117-84-0	Di-n-octylphthalate	10	330
117-81-7	bis(2-Ethylhexyl)phthalate	10	330
Surrogates:			
321-60-8	2-Fluorobiphenyl		
4165-60-0	Nitrobenzene-d5		
1718-51-0	Terphenyl-d14		

SEMIVOLATILE ORGANICS
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Polynuclear Aromatic Hydrocarbons (PAH)
EPA 8310

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
83-32-9	Acenaphthene	1	33
208-96-8	Acenaphthylene	2	67
120-12-7	Anthracene	0.1	3.3
56-55-3	Benzo(a)anthracene	0.1	3.3
50-32-8	Benzo(a)pyrene	0.1	3.3
205-99-2	Benzo(b)fluoranthene	0.2	6.7
191-24-2	Benzo(g,h,i)perylene	0.2	6.7
207-08-9	Benzo(k)fluoranthene	0.1	3.3
218-01-9	Chrysene	0.1	3.3
53-70-3	Dibenz(a,h)anthracene	0.2	6.7
206-44-0	Fluoranthene	0.2	6.7
86-73-7	Fluorene	0.2	6.7
193-39-5	Indeno(1,2,3-cd)pyrene	0.1	3.3
91-20-3	Naphthalene	1	33
85-01-8	Phenanthrene	0.1	3.3
129-00-0	Pyrene	0.1	3.3
Additional Compounds (may be added to the compound list):			
91-57-6	2-Methylnaphthalene	1	33
Surrogate:			
90-12-0	1-Methylnaphthalene		

Nitroaromatics & Nitramines (Explosives)
EPA 8330

CAS #	Compound	Water RL µg/L	Soil RL µg/Kg
2691-41-0	HMX	1	200
121-82-4	RDX	1	200
99-35-4	1,3,5-Trinitrobenzene	1	200
99-65-0	1,3-Dinitrobenzene	1	200
98-95-3	Nitrobenzene	1	200
479-45-8	Tetryl	1	200
118-96-7	2,4,6-Trinitrotoluene	1	200
35572-78-2	2-Amino-4,6-dinitrotoluene	1	200
1946-51-0	4-Amino-2,6-dinitrotoluene	1	200
121-14-2	2,4-Dinitrotoluene	1	200
606-20-2	2,6-Dinitrotoluene	1	200
88-72-2	2-Nitrotoluene	1	400
99-99-0	4-Nitrotoluene	1	400
99-08-1	3-Nitrotoluene	1	400
Surrogate:			
90-12-0	1-Methylnaphthalene		