Table B-4~~8~~. Minimum Analytical Levels and Suggested Methods for Permit Application Screening

Notes on table:

1) MALs, screening levels, and suggested methods in this table may be used for effluent or influent screening or both, as appropriate.

2) This table includes pollutants in section 307.6 of the Standards, all 126 priority pollutants, and those pollutants listed in 40 CFR 122, Appendix D, Table 5.

Pollutant	CASRN [1]	MAL (µg/L)	Screening Level [2] (µg/L)	Suggested Method
Acenaphthene	83-32-9	10		625
Acenaphthylene	208-96-8	10		625
Acetaldehyde	75-07-0	50		1667 [$]
Acrolein	107-02-8	50		624
Acrylonitrile	107-13-1	50		1624~~624~~
Aldrin	309-00-2	0.01~~0.05~~		608
Allyl alcohol	107-18-6	50		1624
Allyl chloride	107-05-1	10		1624
Aluminum, total [3]	7429-90-5	2.5~~30~~		200.8~~202.2~~
Amyl acetate	628-63-7	5		1666 [$]
Aniline	62-53-3	2		1665
Anthracene	120-12-7	10		625
Antimony, total [3~~,4~~]	7440-36-0	1.5~~60~~		200.8~~200.7~~
Arsenic, total [3]	7440-38-2	0.5~~10~~		200.8~~206.2~~
Asbestos [*]	1332-21-4	Not Specified		100.1 and 100.2 [†]
Barium, total [3]	7440-39-3	3~~10~~		200.8~~208.2~~
Benzene	71-43-2	10		624
Benzidine	92-87-5	50		625
Benzo(*a*)anthracene	56-55-3	5~~10~~		625
Benzo(*a*)pyrene	50-32-8	5~~10~~		625
3,4-Benzofluoranthene	205-99-2	10		625
Benzo(*g,h,i*)perylene	191-24-2	20		625
Benzo(*k*)fluoranthene	207-08-9	5		625
Benzonitrile	100-47-0	1 mg/L		ASTM D3371
Benzyl chloride [*]	100-44-7	Not Specified		TBD[4]

DRAFT

Pollutant	CASRN [1]	MAL (µg/L)	Screening Level [2] (µg/L)	Suggested Method
Beryllium, total [3]	7440-41-7	0.5~~5~~		200.8~~200.7~~
Bis(2-chloroethoxy)methane	111-91-1	10		625
Bis(2-chloroethyl)ether	111-44-4	10		625
Bis(2-chloroisopropyl)ether	108-60-1	10		625
Bis(chloromethyl)ether [5]	542-88-1	— [5]		— [5]
Bis(2-ethylhexyl)phthalate [Di(2-ethylhexyl)phthalate]	117-81-7	10		625
Boron, total	7440-42-8	20	100	200.7
Bromide	—	2000		320.1
Bromodichloromethane [Dichlorobromomethane]	75-27-4	10		624
Bromoform	75-25-2	10		624
4-Bromophenyl phenyl ether	101-55-3	10		625
Butyl acetate	540-88-5	5		1666
n-Butylamine *	109-73-9	Not Specified		TBD
sec-Butylamine *	13952-84-6	Not Specified		TBD
tert-Butylamine *	75-64-9	Not Specified		TBD
Butylbenzyl phthalate	85-68-7	10		625
Cadmium, total [3,4]	7440-43-9	1		200.8~~213.2~~
Captan	133-06-2	0.1		1656
Carbaryl	63-25-2	5		632
Carbazole	86-74-8	20		1625
Carbofuran	1563-66-2	3		632
Carbon disulfide	75-15-0	10		1624
Carbon tetrachloride	56-23-5	2~~10~~		624
Chlordane	57-74-9	0.2~~0.15~~		608
Chlorobenzene	108-90-7	10		624
Chlorodibromomethane	124-48-1	10		624
Chloroethane	75-00-3	50		624
2-chloroethylvinyl ether	110-75-8	10		624
Chloroform	67-66-3	10		624
2-Chloronaphthalene	91-58-7	10		625

DRAFT

Pollutant	CASRN [1]	MAL (µg/L)	Screening Level [2] (µg/L)	Suggested Method
2-Chlorophenol	95-57-8	10		625
4-Chlorophenyl phenyl ether	7005-72-3	10		625
Chlorpyrifos	2921-88-2	0.05		1657
Chromium, total ~~Recoverable~~ [3]	7440-47-3	3~~10~~		200.8~~218.2~~
Chromium, hexavalent	18540-29-9	10		218.4
Chromium, trivalent [6]	16065-83-1	— [6]		— [6]
Chrysene	218-01-9	5~~10~~		625
Cobalt, total [3]	7440-48-4	0.3~~5~~	1500	200.8~~219.2~~
Copper, total [3,~~4~~]	7440-50-8	0.5~~10~~		200.8~~220.2~~
Coumaphos	56-72-4	0.025		1657
Cresols (all isomers)	1319-77-3	10		1625 [$]
p-Chloro-*m*-Cresol [4-Chloro-3-methylphenol]	108-39-4	10		625
4,6-Dinitro-*o*-Cresol [2-Methyl-4,6-dinitrophenol]	95-48-7	50		625
p-Cresol [4-Methylphenol]	106-44-5	10		625
Crotonaldehyde	4170-30-3	10		1624
Cyanide, total	57-12-5	10~~20~~		335.2, 335.3, or 4500-CN D
Cyanide, amenable to chlorination	57-12-5	10~~20~~		4500-CN-G ~~335.1~~
Cyanide, weak acid dissociable	57-12-5	10~~20~~		4500-CN-I
Cyclohexane	110-82-7	5		1666 [$]
4,4'-DDD	72-54-8	0.1		608
4,4'-DDE	72-55-9	0.1		608
4,4'-DDT	50-29-3	0.02~~0.1~~		608
2,4-D	94-75-7	10		615
Danitol [7] [Fenpropathrin]	39515-41-8	— [7]		— [7]
n-Decane	124-18-5	30		1625
Demeton	8065-48-3	0.20		1657
Diazinon	333-41-5	0.5		1657
Dibenzo(*a,h*)anthracene	53-70-3	5		625
Dibromochloromethane	124-48-1	10		624

DRAFT

Pollutant	CASRN [1]	MAL (µg/L)	Screening Level [2] (µg/L)	Suggested Method
1,2-Dibromoethane	106-93-4	2		618
Dicamba	1918-00-9	0.110		1658
Dichlobenil [*]	1194-65-6	Not Specified		TBD
Dichlone [*]	117-80-6	Not Specified		1656 [†]
m-Dichlorobenzene [1,3-Dichlorobenzene]	541-73-1	10		625
o-Dichlorobenzene [1,2-Dichlorobenzene]	95-50-1	10		625
p-Dichlorobenzene [1,4-Dichlorobenzene]	106-46-7	10		625
3,3'-Dichlorobenzidine	91-94-1	5		625
1,1-Dichloroethane	75-34-3	10		624
1,2-Dichloroethane	107-06-2	10		624
1,1-Dichloroethylene	75-35-4	10		624
Dichloromethane [Methylene choride]	75-09-2	20		624
2,4-Dichlorophenol	120-83-2	10		625
1,2-Dichloropropane	78-87-5	10		624
1,3-Dichloropropene	542-75-6	10		624
2,2-Dichloropropionic acid	75-99-0	2		615
Dichlorvos	62-73-7	0.004		1657
Dicofol [Kelthane]	115-32-2	20		617
Dieldrin	60-57-1	0.02~~0.1~~		608
Diethyl amine	109-89-7	50 mg/L		1671 [$]
Diethyl phthalate	84-66-2	10		625
Dimethyl amine	124-40-3	50 mg/L		1671 [$]
2,4-Dimethylphenol	105-67-9	10		625
Dimethyl phthalate	131-11-3	10		625
Di-*n*-butyl phthalate	84-74-2	10		625
Dinitrobenzene	25154-54-5	10		1625
2,4-Dinitrophenol	51-28-5	50		625
2,4-Dinitrotoluene	121-14-2	10		625
2,6-Dinitrotoluene	606-20-2	10		625

DRAFT

Pollutant	CASRN [1]	MAL (µg/L)	Screening Level [2] (µg/L)	Suggested Method
Di-*n*-octyl phthalate	117-84-0	10		625
Dioxins/Furans [TCDD Equivalents]		(ppq)		1613
2,3,7,8-TCDD	1746-01-6	10		
1,2,3,7,8-PeCDD	40321-76-4	50		
2,3,7,8-HxCDDs				
1,2,3,4,7,8-HxCDD	39227-28-6	50		
1,2,3,6,7,8-HxCDD	57653-85-7	50		
1,2,3,7,8,9-HxCDD	19408-74-3	50		
1,2,3,4,6,7,8-HpCDD	35822-46-9	50		
OCDD	3268-87-9	100		
2,3,7,8-TCDF	51207-31-9	10		
1,2,3,7,8-PeCDF	57117-41-6	50		
2,3,4,7,8-PeCDF	57117-31-4	50		
2,3,7,8-HxCDFs				
1,2,3,4,7,8-HxCDF	70648-26-9	50		
1,2,3,6,7,8-HxCDF	57117-44-9	50		
1,2,3,7,8,9-HxCDF	72918-21-9	50		
2,3,4,6,7,8-HxCDF	60851-34-5	50		
2,3,4,7,8-HpCDFs	38998-75-3			
1,2,3,4,6,7,8-HpCDF	67562-39-4	50		
1,2,3,4,7,8,9-HpCDF	55673-89-7	50		
OCDF	39001-02-0	100		
1,2-Diphenylhydrazine (as Azobenzene)	122-66-7	20		1625
Diquat	2764-72-9	1.5		549, 549.1
Disulfoton	298-04-4	0.032		1657
Diuron	330-54-1	0.090		632
Endosulfan I (*alpha*)	959-98-8	0.01~~0.1~~		608
Endosulfan II (*beta*)	33213-65-9	0.02~~0.1~~		608
Endosulfan sulfate	1031-07-8	0.1		608
Endrin	72-20-8	0.02~~0.1~~		608
Endrin aldehyde	7421-93-4	0.1		608
Epichlorohydrin	106-89-8	1 mg/L		ASTM D-3695
Ethion	563-12-2	0.015		1657
Ethylbenzene	100-41-4	10		624
Ethylene diamine *	107-15-3	Not Specified		TBD
Ethylene dibromide	106-93-4	10		1624
Formaldehyde	50-00-0	50		1667 $
Fluoranthene	206-44-0	10		625
Fluorene	86-73-7	10		625
Fluoride	16984-48-8	500		340.3

DRAFT

Pollutant	CASRN [1]	MAL (µg/L)	Screening Level [2] (µg/L)	Suggested Method
Furfural	98-01-1	50 mg/L		1667 [$]
Guthion	86-50-0	0.1		1657
Heptachlor	76-44-8	0.01~~0.05~~		608
Heptachlor epoxide	1024-57-3	0.01~~1.0~~		608
Hexachlorobenzene	118-74-1	5~~10~~		625
Hexachlorobutadiene	87-68-3	10		625
alpha-Hexachlorocyclohexane	319-84-6	0.05		608
beta-Hexachlorocyclohexane	319-85-7	0.05		608
gamma-Hexachlorocyclohexane [Lindane]	58-89-9	0.05		608
delta-Hexachlorocyclohexane	319-86-8	0.05		608
Hexachlorocyclopentadiene	77-47-4	10		625
Hexachloroethane	67-72-1	20		625
Hexachlorophene	70-30-4	10		604.1
Indeno(1,2,3-*cd*)pyrene	193-39-5	5		625
Iron, total [3]	7439-89-6	7~~5~~	300	200.7~~236.2~~
Isophorone	78-59-1	10		625
Isopropanolamine dodecylbenzenesulfonate [*]	42504-46-1	Not Specified		TBD
Kepone	143-50-0	0.3		1656
Lead, total [3,~~4~~]	7439-92-1	0.5~~5.0~~		200.8~~239.2~~
Malathion	121-75-5	0.1		1657
Magnesium, total	7439-95-4	20		200.7
Manganese, total [3]	7439-96-5	0.5~~2~~	50	200.8~~243.2~~
Mercaptodimethur	2032-65-7	0.06		632
Mercury, total [~~3,~~8]	7439-97-6	0.005~~0.2~~		245.7~~245.1~~
		0.0005		1631E
Methoxychlor	72-43-5	2.0		617
Methyl bromide [Bromomethane]	74-83-9	50		624
Methyl chloride [Chloromethane]	74-87-3	50		624
Methyl ethyl ketone	78-93-3	50		624
Methyl mercaptan [*]	74-93-1	Not Specified		TBD

DRAFT

Pollutant	CASRN [1]	MAL (µg/L)	Screening Level [2] (µg/L)	Suggested Method
Methyl methacrylate	80-62-6	10		1624
Methyl parathion	298-00-0	0.05		1657
Mevinphos	7786-34-7	0.2		1657
Mexacarbate	315-18-4	1.5		632
Mirex	2385-85-5	0.2		617
Molybdenum, total [3]	7439-98-7	1~~5~~	500	200.8~~246.2~~
Monoethyl amine *	75-04-7	Not Specified		TBD
Monomethylamine	74-89-5	50 mg/L		1667 $
Naled	300-76-5	0.05		1657
Napthalene	91-20-3	10		625
Napthenic acid *	1338-24-5	Not Specified		TBD
Nickel, total [3,4]	7440-02-0	0.5~~10~~		200.8~~249.2~~
Nitrate-nitrogen	14797-55-8	1000		352.1
Nitrobenzene	98-95-3	10		625
2-Nitrophenol	88-75-5	20		625
4-Nitrophenol	100-02-7	50		625
N-Nitrosodiethylamine	55-18-5	20		625
N-Nitrosodimethylamine	62-75-9	50		625
N-Nitroso-di-*n*-butylamine	924-16-3	20		625
N-Nitroso-di-*n*-propylamine	621-64-7	20		625
N-Nitrosodiphenylamine	86-30-6	20		625
Nitrotoluene *	1321-12-6	Not Specified		TBD
Nonylphenol	104-40-5	333		1625
Nonylphenol	84852-15-3	333		1625
Nonylphenol	25154-52-3	333		1625
n-Octadecane	593-45-3	30		1625
Parathion (ethyl)	56-38-2	0.1		1657
Pentachlorobenzene	608-93-5	20		625
Pentachlorophenol	87-86-5	5~~50~~		625
Phenanthrene	85-01-8	10		625
Phenol, total	108-95-2	10		625

DRAFT

Pollutant	CASRN [1]	MAL (µg/L)	Screening Level [2] (µg/L)	Suggested Method
p-Phenolsulfonate *	127-82-2	Not Specified		TBD
Phosgene[7, *]	75-44-5	—		Degrades in water[7]
Polychlorinated biphenyls (PCBs)	1336-36-3			~~608~~
PCB-77	32598-13-3	0.0005		1668
PCB-81	70362-50-4	0.0005		1668
PCB-126	57465-28-8	0.0005		1668
PCB-169	32774-16-6	0.0005		1668
PCB-1016	12674-11-2	0.2~~1.0~~		608
PCB-1221	11104-28-2	0.2~~1.0~~		608
PCB-1232	11141-16-5	0.2~~1.0~~		608
PCB-1242	53469-21-9	0.2~~1.0~~		608
PCB-1248	12672-29-6	0.2~~1.0~~		608
PCB-1254	11097-69-1	0.2~~1.0~~		608
PCB-1260	11096-82-5	0.2~~1.0~~		608
Propargite	2312-35-8	0.02		GCMS
Propylene oxide	75-56-9	25		624 Heated Purge
Pyrene	129-00-0	10		625
Pyrethrin I	121-21-1	3.1		1660
Pyrethrin II	121-29-9	3.3		1660
Pyridine	110-86-1	20		625
Quinoline	91-22-5	1 mg/L		ASTM D-4763
Resorcinol	108-46-3	100		1625
Selenium, total [3, 4]	7782-49-2	5~~10.0~~		200.8~~270.2~~
Silver, total [3, 4]	7440-22-4	0.5~~2.0~~		200.8~~272.2~~
Strontium	7440-24-6	1.0		200.7
Strychnine	57-24-9	40		1625
Styrene	100-42-5	10		1625
1,2,4,5-Tetrachlorobenzene	95-94-3	20		625
1,1,2,2-Tetrachloroethane	79-34-5	10		624
Tetrachloroethylene	127-18-4	10		624
Thallium, total [3, 4]	7440-28-0	0.5~~10~~		200.8~~279.2~~
Tin, total [3]	7440-31-5	5~~20~~		200.9~~282.2~~
Titanium, total	7440-32-6	30	40	283.2
Toluene	108-88-3	10		624
Toxaphene	8001-35-2	0.3~~5.0~~		608
2,4,5-TP [Silvex]	93-72-1	2.0		615

DRAFT

Pollutant	CASRN [1]	MAL (µg/L)	Screening Level [2] (µg/L)	Suggested Method
1,2-Trans-dichoroethylene	156-60-5	10		624
Tributyltin [TBT]	688-73-3	0.010		TNRCC 1001
1,2,4-Trichlorobenzene	120-82-1	10		625
1,1,1-Trichloroethane	71-55-6	10		624
1,1,2-Trichloroethane	79-00-5	10		624
Trichloroethylene	79-01-6	10		624
Trichlorofon	52-68-6	0.45		1657
2,4,5-Trichlorophenol	95-95-4	50		625
2,4,6-Trichlorophenol	88-06-2	10		625
Triethanolmine dodecylbenzenesulfonate *	27323-41-7	Not Specified		TBD
Triethylamine	121-44-8	50 mg/L		1667 $
TTHM (Total Trihalomethanes)				624
Bromodichloromethane	75-27-4	10		
Dibromochloromethane	124-48-1	10		
Tribromomethane [Bromoform]	75-25-2	10		
Trichloromethane [Chloroform]	67-66-3	10		
Trimethylamine *	75-50-3	Not Specified		1666 †, $
Uranium, total [3]	7440-61-1	0.5		200.8
Vanadium, total [3]	7440-62-2	5		200.8
Vinyl acetate	108-05-4	50		1624 $
Vinyl chloride	75-01-4	10		624
Xylene	1330-20-7	10		1624
Xylenol	1300-716	30		625
Zinc, total [3,4]	7440-66-6	5.0		200.8~~289.2~~
Zirconium	7440-67-7	100		1620

1 Chemical Abstracts Service Registry Number.

2 Screening levels are noted for toxic pollutants that (1) do not have numerical criteria in the Standards and (2) are of potential concern only at concentrations substantially higher than the MAL.

3 EPA Methods 200.8 and 200.9 are approved for use in the NPDES program (40 CFR Part 136, revised March 12, 2007).~~EPA Method 200.8 may also be used upon request. Such a request should be made in writing to EPA's Houston Laboratory, 10625 Fallstone Road, Houston, Texas, 77099-4303. Once Method 200.8 is approved for use in the NPDES program, no written request will be necessary.~~

4 40 CFR Part 136, Table IC refers to the *Methods for Benzene: Chlorinated Organic Compounds, Pentachlorophenol and Pesticides in Water and Wastewater*, U.S. Environmental Protection Agency, September 1978. However, no analytical method number is specified in 40 CFR Part 136.~~EPA Method 1638 may also be~~

~~used once it is approved for use in the NPDES program.~~

[5] Hydrolyzes in water. Will not require applicant to analyze at this time.

[6] Trivalent chromium (Cr) determined by subtracting hexavalent Cr from total Cr.

[7] EPA procedure not approved. Will not require applicant to analyze at this time.

[8] Either method listed for mercury may be used.

[*] The TCEQ has requested the EPA to provide MALs and/or suggested methods.

[†] Method is draft and has not yet been approved by EPA.

[$] Test may be costly.

DRAFT