

**Table 4-8  
Surface Water Target and Achieved Detection Limits**

Method Group	Analyte	Target DL Phase I <sup>a</sup>	Units	DL Range Phase I <sup>b</sup>	Units
Ancillary	Biochemical Oxygen Demand	--		2-4	mg/L
Ancillary	Bromide	--		0.2-0.2	mg/L
Ancillary	Carbonate Alkalinity	--		5-5	mg/L
Ancillary	Chemical Oxygen Demand (COD)	--		20-42.5	mg/L
Ancillary	Fluoride	--		5-20	mg/L
Ancillary	Hardness, as CaCO <sub>3</sub>	--		5-5	mg/L
Ancillary	Hydroxide Alkalinity	--		5-5	mg/L
Ancillary	Nitrate-Nitrite	--		0.1-0.1	mg/L
Ancillary	Phosphate as P, Ortho	--		0.5-10	mg/L
Ancillary	Sulfate	--		5-5	mg/L
Ancillary	Total Kjeldahl Nitrogen	--		0.5-1.4	mg/L
Ancillary	Total Suspended Solids	--		4-4	mg/L
Dioxin/Furans	1,2,3,4,6,7,8-HpCDD	--		2.7-8.3	PG/L
Dioxin/Furans	1,2,3,4,6,7,8-HpCDF	--		1.8-6.1	PG/L
Dioxin/Furans	1,2,3,4,7,8,9-HpCDF	--		2.1-15	PG/L
Dioxin/Furans	1,2,3,4,7,8-HxCDD	--		0.6-6.2	PG/L
Dioxin/Furans	1,2,3,4,7,8-HxCDF	--		2.5-4.8	PG/L
Dioxin/Furans	1,2,3,6,7,8-HxCDD	--		0.63-5.8	PG/L
Dioxin/Furans	1,2,3,6,7,8-HxCDF	--		2-16	PG/L
Dioxin/Furans	1,2,3,7,8,9-HxCDD	--		0.59-5.9	PG/L
Dioxin/Furans	1,2,3,7,8,9-HxCDF	--		1.8-4.8	PG/L
Dioxin/Furans	1,2,3,7,8-PeCDD	--		1.2-4.8	PG/L
Dioxin/Furans	1,2,3,7,8-PeCDF	--		1.8-15	PG/L
Dioxin/Furans	2,3,4,6,7,8-HxCDF	--		1.6-3	PG/L
Dioxin/Furans	2,3,4,7,8-PeCDF	--		1.7-7.1	PG/L
Dioxin/Furans	2,3,7,8-TCDD	--		0.71-4.3	PG/L
Dioxin/Furans	2,3,7,8-TCDF	--		1.2-2.8	PG/L
Dioxin/Furans	OCDD	--		3.6-18	PG/L
Dioxin/Furans	OCDF	--		3-20	PG/L
Dioxin/Furans	Total HpCDD	--		4.2-8.3	PG/L
Dioxin/Furans	Total HpCDF	--		2.3-6.1	PG/L
Dioxin/Furans	Total HxCDD	--		3.2-12	PG/L
Dioxin/Furans	Total HxCDF	--		3.1-7	PG/L
Dioxin/Furans	Total PeCDD	--		1.8-4.8	PG/L
Dioxin/Furans	Total PeCDF	--		1.8-9.4	PG/L
Dioxin/Furans	Total TCDD	--		1.4-4.3	PG/L
Dioxin/Furans	Total TCDF	--		1.2-2.1	PG/L
Herbicide	2,2-Dichloropropionic Acid	--		2-4	ug/L
Herbicide	2,4,5-T	--		1-2	ug/L
Herbicide	2,4,5-TP (Silvex)	--		1-2	ug/L
Herbicide	2,4-D	--		4-8	ug/L
Herbicide	2,4-DB	--		4-8	ug/L
Herbicide	Dicamba	--		2-4	ug/L
Herbicide	Dichlorprop	--		4-8	ug/L
Herbicide	Dinitrobutyl Phenol	--		0.6-1.2	ug/L
Herbicide	MCPA (2-Methyl-4-Chlorophenoxyacetic Acid)	--		400-800	ug/L

<sup>a</sup> Calcasieu Estuary Phase I Sampling and Analysis Plan (Table 5-3).

<sup>b</sup> Calcasieu Estuary Database.

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Herbicide	Mecoprop	--		400-800	ug/L
Metal	Aluminum (Fume Or Dust)	87	ug/L	0.05-1000	ug/L
Metal	Antimony	--		2-300	ug/L
Metal	Arsenic	36	ug/L	0.002-10	ug/L
Metal	Barium	--		0.1-200	ug/L
Metal	Beryllium	--		0.1-25	ug/L
Metal	Cadmium	9.3	ug/L	0.3-25	ug/L
Metal	Calcium Metal	--		35.9-310	ug/L
Metal	Chromium	103	ug/L	0.7-50	ug/L
Metal	Cobalt	--		1-250	ug/L
Metal	Copper	3.1	ug/L	0.6-31.1	ug/L
Metal	Cyanide	1	ug/L	3.5-10	ug/L
Metal	Iron	1000	ug/L	6.6-3470	ug/L
Metal	Lead	8.1	ug/L	0.17-9	ug/L
Metal	Magnesium	--		11.4-5000	ug/L
Metal	Manganese	--		0.2-130	ug/L
Metal	Mercury	0.025	ug/L	0.052-0.2	ug/L
Metal	Nickel	8.2	ug/L	0.002-200	ug/L
Metal	Potassium	--		36-5000	ug/L
Metal	Selenium	71	ug/L	0.002-22	ug/L
Metal	Silver	1.9	ug/L	0.001-6	ug/L
Metal	Sodium	--		115-5000	ug/L
Metal	Thallium	--		0.13-10	ug/L
Metal	Vanadium (Fume Or Dust)	--		1-250	ug/L
Metal	Zinc	81	ug/L	1.6-100	ug/L
PAH	1,1'-Biphenyl	--		9-13	ug/L
PAH	1,2-Benzphenanthracene	--		9-13	ug/L
PAH	2-Methylnaphthalene	--		9-13	ug/L
PAH	Acenaphthene	--		9-13	ug/L
PAH	Acenaphthylene	--		9-13	ug/L
PAH	Anthracene	--		9-13	ug/L
PAH	Benzo(a)anthracene	--		9-13	ug/L
PAH	Benzo(a)pyrene	--		9-13	ug/L
PAH	Benzo(b)fluoranthene	--		9-13	ug/L
PAH	Benzo(g,h,i)perylene	--		9-13	ug/L
PAH	Benzo(k)fluoranthene	--		9-13	ug/L
PAH	Dibenzo(a,h)anthracene	--		9-13	ug/L
PAH	Fluoranthene	--		9-13	ug/L
PAH	Fluorene	--		9-13	ug/L
PAH	Indeno(1,2,3-cd)pyrene	--		9-13	ug/L
PAH	Naphthalene	--		9-13	ug/L
PAH	Phenanthrene	--		9-13	ug/L
PAH	Pyrene	--		9-13	ug/L
PCB	Aroclor-1016	--		0.91-1	ug/L
PCB	Aroclor-1221	--		1.8-2.1	ug/L
PCB	Aroclor-1232	--		0.91-1	ug/L

<sup>a</sup> Calcasieu Estuary Phase I Sampling and Analysis Plan (Table 5-3).

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Method Group	Analyte	Target DL Phase I <sup>a</sup>	Units	DL Range Phase I <sup>b</sup>	Units
PCB	Aroclor-1242	--		0.91-1	ug/L
PCB	Aroclor-1248	--		0.91-1	ug/L
PCB	Aroclor-1254	--		0.91-1	ug/L
PCB	Aroclor-1260	--		0.91-1	ug/L
Pesticide	1,1,1-Trichloro-2,2-bis (p-methoxyphenyl)-ethane	0.03	ug/L	0.015-0.53	ug/L
Pesticide	4,4'-DDD	0.25	ug/L	0.091-0.1	ug/L
Pesticide	4,4'-DDE	0.14	ug/L	0.091-0.1	ug/L
Pesticide	4,4'-DDT	0.001	ug/L	0.091-0.1	ug/L
Pesticide	Aldrin	1.3	ug/L	0.0079-0.053	ug/L
Pesticide	alpha-BHC	--		0.045-0.053	ug/L
Pesticide	alpha-Chlordane	--		0.045-0.053	ug/L
Pesticide	beta-BHC	--		0.031-0.11	ug/L
Pesticide	Campechlor	0.0002	ug/L	4.5-5.3	ug/L
Pesticide	delta-BHC	--		0.0071-0.053	ug/L
Pesticide	Dieldrin	0.0019	ug/L	0.091-0.1	ug/L
Pesticide	Endosulfan I	0.0087	ug/L	0.045-0.053	ug/L
Pesticide	Endosulfan II	0.0087	ug/L	0.091-0.1	ug/L
Pesticide	Endosulfan Sulfate	--		0.091-0.1	ug/L
Pesticide	Endrin	0.0023	ug/L	0.091-0.1	ug/L
Pesticide	Endrin Aldehyde	--		0.091-0.1	ug/L
Pesticide	Endrin Ketone	--		0.091-0.1	ug/L
Pesticide	gamma-BHC (Lindane)	0.16	ug/L	0.045-0.053	ug/L
Pesticide	gamma-Chlordane	--		0.045-0.053	ug/L
Pesticide	Heptachlor	0.0036	ug/L	0.045-0.053	ug/L
Pesticide	Heptachlor Epoxide	0.0036	ug/L	0.045-0.053	ug/L
Semivolatile	1,2,4-Trichlorobenzene	--		10-10	ug/L
Semivolatile	1,2-Dichlorobenzene	--		10-10	ug/L
Semivolatile	1,4-Dichlorobenzene	--		10-10	ug/L
Semivolatile	2,2'-oxybis(1-Chloropropane)	--		9-13	ug/L
Semivolatile	2,4,5-Trichlorophenol	--		23-31	ug/L
Semivolatile	2,4,6-Trichlorophenol	--		9-13	ug/L
Semivolatile	2,4-Dichlorophenol	101	ug/L	9-13	ug/L
Semivolatile	2,4-Dimethylphenol	--		9-13	ug/L
Semivolatile	2,4-Dinitrophenol	--		23-31	ug/L
Semivolatile	2,4-Dinitrotoluene	--		9-13	ug/L
Semivolatile	2,6-Dinitrotoluene	--		9-13	ug/L
Semivolatile	2-Chloronaphthalene	--		9-13	ug/L
Semivolatile	2-Chlorophenol	129	ug/L	9-13	ug/L
Semivolatile	2-Methylphenol	--		9-13	ug/L
Semivolatile	2-Nitroaniline	--		23-31	ug/L
Semivolatile	2-Nitrophenol	--		9-13	ug/L
Semivolatile	3,3'-Dichlorobenzidine	--		9-13	ug/L
Semivolatile	3,5,5-Trimethyl-2-cyclohexene-1-one	--		9-13	ug/L
Semivolatile	3-Nitroaniline	--		23-31	ug/L
Semivolatile	4,6-Dinitro-2-methylphenol	--		23-31	ug/L
Semivolatile	4-Bromophenyl Phenyl Ether	--		9-13	ug/L

<sup>a</sup> Calcasieu Estuary Phase I Sampling and Analysis Plan (Table 5-3).

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Method Group	Analyte	Target DL Phase I <sup>a</sup>	Units	DL Range Phase I <sup>b</sup>	Units
Semivolatile	4-Chloro-3-methylphenol	--		9-13	ug/L
Semivolatile	4-Chlorophenyl Phenyl Ether	--		9-13	ug/L
Semivolatile	4-Methylphenol	--		9-13	ug/L
Semivolatile	4-Nitrophenol	--		23-31	ug/L
Semivolatile	Acetophenone	--		9-13	ug/L
Semivolatile	Atrazine	--		9-13	ug/L
Semivolatile	Benzaldehyde	--		9-13	ug/L
Semivolatile	Benzyl Butyl Phthalate	--		9-13	ug/L
Semivolatile	bis(2-Chloroethoxy)methane	--		9-13	ug/L
Semivolatile	bis(2-Chloroethyl)ether	--		9-13	ug/L
Semivolatile	bis(2-Ethylhexyl)phthalate	--		7-13	ug/L
Semivolatile	Caprolactam	--		9-13	ug/L
Semivolatile	Carbazole	--		9-13	ug/L
Semivolatile	Di-n-butylphthalate	--		9-13	ug/L
Semivolatile	Di-n-octylphthalate	--		9-13	ug/L
Semivolatile	Dibenzofuran	--		9-13	ug/L
Semivolatile	Diethyl Phthalate	--		9-13	ug/L
Semivolatile	Dimethyl Phthalate	--		9-13	ug/L
Semivolatile	Hexachloro-1,3-butadiene	0.32	ug/L	9-13	ug/L
Semivolatile	Hexachlorobenzene	--		9-13	ug/L
Semivolatile	Hexachlorocyclopentadiene	0.001	ug/L	9-13	ug/L
Semivolatile	Hexachloroethane	--		9-13	ug/L
Semivolatile	M-Dichlorobenzene	--		10-10	ug/L
Semivolatile	N-Nitroso-di-n-propylamine	--		9-13	ug/L
Semivolatile	N-Nitrosodiphenylamine	--		9-13	ug/L
Semivolatile	Nitrobenzene	--		9-13	ug/L
Semivolatile	P-Chloroaniline	--		9-13	ug/L
Semivolatile	P-Nitroaniline	--		23-31	ug/L
Semivolatile	Pentachlorophenol	7.9	ug/L	23-31	ug/L
Semivolatile	Phenol	290	ug/L	9-13	ug/L
TPH	C5-C8 Aliphatics	--		18000-18000	ug/L
TPH	C9-C10 Aromatics	--		10000-10000	ug/L
TPH	C9-C12 Aliphatics	--		5200-5200	ug/L
TPH	Diesel Range Organics	--		100-360	ug/L
TPH	Unadjusted C5-C8 Aliphatics	--		18000-18000	ug/L
TPH	Unadjusted C9-C12 Aliphatics	--		5200-5200	ug/L
Volatile	1,1,1-Trichloroethane	1560	ug/L	10-10	ug/L
Volatile	1,1,2,2-Tetrachloroethane	451	ug/L	10-10	ug/L
Volatile	1,1,2-Trichloroethane	900	ug/L	10-10	ug/L
Volatile	1,1-Dichloroethane	--		10-10	ug/L
Volatile	1,1-Dichloroethylene	11200	ug/L	10-10	ug/L
Volatile	1,2-Dibromo-3-chloropropane (DBCP)	--		10-10	ug/L
Volatile	1,2-Dibromoethane	--		10-10	ug/L
Volatile	1,2-Dichloroethane	5650	ug/L	10-10	ug/L
Volatile	1,2-Dichloropropane	--		10-10	ug/L
Volatile	2-Butanone	--		10-12	ug/L

<sup>a</sup> Calcasieu Estuary Phase I Sampling and Analysis Plan (Table 5-3).

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Volatile	4-Methyl-2-pentanone	--		10-10	ug/L
Volatile	Acetone	--		10-26	ug/L
Volatile	Benzene	1350	ug/L	10-10	ug/L
Volatile	Bromodichloromethane	--		10-10	ug/L
Volatile	Bromomethane	--		10-10	ug/L
Volatile	Carbon Disulfide	--		10-10	ug/L
Volatile	Carbon Tetrachloride	7500	ug/L	10-10	ug/L
Volatile	CFC-11	--		10-10	ug/L
Volatile	CFC-12	--		10-10	ug/L
Volatile	Chlorinated Fluorocarbon (Freon 113)	--		10-10	ug/L
Volatile	Chlorobenzene	--		10-10	ug/L
Volatile	Chlorodibromomethane	--		10-10	ug/L
Volatile	Chloroethane	--		10-10	ug/L
Volatile	Chloroform	4075	ug/L	1-10	ug/L
Volatile	Chloromethane	13500	ug/L	10-10	ug/L
Volatile	cis-1,2-Dichloroethene	--		10-10	ug/L
Volatile	cis-1,3-Dichloropropene	39.5	ug/L	10-10	ug/L
Volatile	Cyclohexane	--		10-10	ug/L
Volatile	Dichloromethane	12800	ug/L	1-19	ug/L
Volatile	Ethylbenzene	4380	ug/L	10-10	ug/L
Volatile	Isopropylbenzene	--		10-10	ug/L
Volatile	Methyl Acetate	--		10-10	ug/L
Volatile	Methyl N-Butyl Ketone	--		10-10	ug/L
Volatile	Methyl tert-Butyl Ether	--		10-10	ug/L
Volatile	Methylbenzene	475	ug/L	10-10	ug/L
Volatile	Methylcyclohexane	--		10-10	ug/L
Volatile	Styrene (monomer)	--		10-10	ug/L
Volatile	Tetrachloroethene	510	ug/L	10-10	ug/L
Volatile	trans-1,2-Dichloroethene	--		10-10	ug/L
Volatile	trans-1,3-Dichloropropene	--		10-10	ug/L
Volatile	Tribromomethane	895	ug/L	10-10	ug/L
Volatile	Trichloroethylene	100	ug/L	10-10	ug/L
Volatile	Vinyl Chloride	--		10-10	ug/L
Volatile	Xylenes (total)	--		10-10	ug/L

<sup>a</sup> Calcasieu Estuary Phase I Sampling and Analysis Plan (Table 5-3).

<sup>b</sup> Calcasieu Estuary Database.