Table 2-6
Bay Protection and Toxic Cleanup Program Preliminary Results
Physical and Chemical Parameters

Parameter	Unit	Detect Limit	ERL 1995	ERM 1995	STATION/SAMPLING DATE																		
					93165 NTC Leg 18 5/4/93	93166 NTC Leg 18 5/4/93	93166 NTC Leg 28 3/16/94	93166 NTC Leg 28 3/16/94	93166 NTC Leg 28 3/16/94	93167 NTC Leg 18 5/4/93	90102 NTC Bldg Leg 7 11/11/92	90104 WBasin Leg 12 1/26/93	90104 WBasin Leg 29 3/29/94	90104 WBasin Leg 29 3/29/94	90104 WBasin Leg 29 3/29/94	SDBay Leg 6 90049 10/27/92	SDBay Leg 6 90056 10/27/92	EBasin Leg 6 90002 10/27/92	EBasin Leg 15 90002 3/24/93	EBasin Leg 22 90002 8/3/93	Dwntwn Leg 22 93221 8/3/93	Dwntwn Leg 22 93222 8/3/93	NAS North Island Leg 7 90023 11/11/92	PBravo Leg 7 90026 11/10/92
Physical																							
Fines	%	NA	NA	NA	91.12	23.6	94.49	91.23	91.72	88.5	75	74	44.08	53	49.72	44	18	66	36	48.25	83.5	89.45	27	31
Total organic carbon	%	NA	NA	NA	4.5	1.1	2.89	2.44	1.86	2.11	0.43	0.99	0.87	1.02	1.16	1.66	0.52	1.77	0.9	1.65	1.93	1.92	1.6	1.04
Chemical – Metals																							
Aluminum	ppm	1	NA	NA	NP	56,700	43,300	81,900	69,900	NP	40,000	52,000	48,300	47,000	43,800	42,000	70,000	NP	NP	43,000	29,000	33,000	57,000	NP
Antimony	ppm	0.1	2	25	NP	0.733	0.793	0.844	0.673	NP	0.64	0.8	0.336	0.376	0.369	0.85	0.19	NP	NP	1.44	1.1	0.93	0.66	NP
Arsenic	ppm	0.1	8.2	70	NP	6.6	17.9[a]	19.6[a]	17[a]	NP	5.2	8.2	6.85	7.92	8.83[a]	6.2	3.2	NP	NP	9.4[a]	15[a]	15[a]	7.2	NP
Cadmium	ppm	0.01	1.2	9.6	NP	0.478	0.221	0.101	0.275	NP	0.29	0.25	0.349	0.331	0.281	0.28	0.19	NP	NP	0.45	0.27	0.3	0.92	NP
Chromium, total	ppm	0.1	81	370	NP	46.6	119[a]	120[a]	109[a]	NP	60	69	50.5	59.1	55.4	56	37	NP	NP	51	92[a]	110[a]	71	NP
Copper	ppm	0.1	34	270	NP	59.4[a]	131[a]	138[a]	113[a]	NP	62[a]	99[a]	61.9[a]	75.9[a]	74.4[a]	58[a]	19	NP	NP	60[a]	110[a]	120[a]	73[a]	NP
Iron	ppm	0.1	NA	NA	NP	29,600	52,600	59,200	55,800	NP	44,000	44,000	32,400	36,300	32,700	29,000	21,000	NP	NP	25,000	38,000	40,000	36,000	NP
Lead	ppm	0.1	46.7	218	NP	61.9[a]	48.8[a]	77.7[a]	50[a]	NP	35	38	19.2	22.4	24.8	16.9	21.7	NP	NP	63[a]	49.4[a]	49.9[a]	36.1	NP
Manganese	ppm	0.05	NA	NA	NP	346	425	516	486	NP	590	460	472	490	456	330	410	NP	NP	340	370	400	350	NP
Mercury	ppm	0.03	0.15	0.71	NP	0.133	0.702[a]	0.673[a]	0.708[a]	NP	0.294[a]	0.253[a]	0.214[a]	0.302[a]	0.345[a]	0.279[a]	0.091	NP	NP	0.206[a]	0.497[a]	0.814[a]	0.262[a]	NP
Nickel	ppm	0.1	20.9	51.6	NP	18	28.8[a]	28.6[a]	30[a]	NP	14	16	13.9	15.5	16.6	13	7	NP	NP	16	20	22	16	NP
Selenium	ppm	0.2	NA	NA	NP	0.26	0.373	0.35	0.364	NP	ND	0.23	ND	0.241	0.319	ND	ND	NP	NP	ND	0.24	0.21	ND	NP
Silver	ppm	0.01	1	3.7	NP	1.5[a]	2.25[a]	2.52[a]	2.08[a]	NP	0.62	0.8	0.554	0.658	0.701	0.55	0.12	NP	NP	0.51	1.11[a]	1.47[a]	0.81	NP
Tin	ppm	0.02	NA	NA	NP	5	4.61	5.06	4.41	NP	4.6	7.5	2.23	2.63	2.54	2.16	1.75	NP	NP	2.43	4.33	4.64	5.9	NP
Tributyltin	ppb	0.013	NA	NA	NP	0.0496	0.0816	0.115	0.0454	NP	0.03	0.09	0.01	0.0271	0.0649	ND (0.01)	ND	NP	NP	0.11	0.26	0.26	0.19	NP
Zinc	ppm	0.05	150	410	NP	147	300[a]	342[a]	288[a]	NP	160[a]	200[a]	143	172[a]	150	120	65	NP	NP	150	200[a]	200[a]	160[a]	NP

Sources:
SEDCHEMD.DAT; CHEM2433.XLS; ESTUARY.XLS (SWRCB 1995)

Notes:
[a] shading indicates reported concentration above ERL
[b] outline indicates reported concentration above ERM

Acronyms/Abbreviations:
ERL – effects-range low
ERM – effects-range median
NA – not applicable
NASNI – Naval Air Station North Island
ND – not detected
NP – not performed
NTC – Naval Training Center
ppb – parts per billion
ppm – parts per million

Table 2-7
Bay Protection and Toxic Cleanup Program Preliminary Results
Organic Compounds
(concentrations reported in parts per billion)

Parameter	Detect Limit	ERL 1995	ERM 1995	STATION/SAMPLING DATE																		
				93165 NTC Leg 18 5/4/93	93166 NTC Leg 18 5/4/93	93166 NTC Leg 28 3/16/94	93166 NTC Leg 28 3/16/94	93166 NTC Leg 28 3/16/94	93167 NTC Leg 18 5/4/93	90102 NTC Bldg Leg 7 11/11/92	90104 WBasin Leg 12 1/26/93	90104 WBasin Leg 29 3/29/94	90104 WBasin Leg 29 3/29/94	90104 WBasin Leg 29 3/29/94	90049 SD Bay Leg 6 10/27/92	90056 SD Bay Leg 6 10/27/92	90002 E Basin Leg 6 10/27/92	90002 E Basin Leg 15 3/24/93	90002 E Basin Leg 22 8/3/93	93221 Dwntwn Leg 22 8/3/93	93222 Dwntwn Leg 22 8/3/93	90023 NAS North Island Leg 7 11/11/92	90026 PBravo Leg 7 11/10/92
Polynuclear Aromatic Hydrocarbons																						
1-methylnaphthalene	5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
1-methylphenanthrene	5	NA	NA	NP	ND	7.6	15.6	7.61	NP	6.4	12.4	8.1	19	8.65	8.2	ND	NP	NP	13.9	14.3	16.1	14.3	NP
2,3,5-trimethylnaphthalene	5	NA	NA	NP	ND	ND	ND	ND	NP	NP	8	ND	ND	ND	NP	NP	NP	NP	ND	ND	ND	NP	NP
2,6-dimethylnaphthalene	5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
2-methylnaphthalene	5	70	670	NP	ND	8.41	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	9.53	9.12	10.7	6.7	NP
Acenaphthene	5	16	500	NP	ND	ND	ND	ND	NP	ND	5.3	ND	8.38	ND	ND	ND	NP	NP	8.27	5.46	8.22	ND	NP
Acenaphthylene	5	44	640	NP	5.4	11.8	11.3	6.4	NP	NP	NP	5.16	5.99	6.27	NP	NP	NP	NP	8.31	23	15.3	NP	NP
Anthracene	5	85.3	1,100	NP	ND	15.7	31.9	15.5	NP	27.1	39.3	41.2	54.7	31.6	43.2	12.1	NP	NP	32.2	68.9	69.4	63.9	NP
Benz(a)anthracene	5	261	1,600	NP	14.6	63.5	61.4	44.8	NP	104	174	69.9	112	75.4	143	39.6	NP	NP	128	148	212	194	NP
Benzo(a)pyrene	5	430	1,600	NP	32.1	215	274	217	NP	164	221	193	249	215	201	48.8	NP	NP	214	348	460*	282	NP
Benzo(b)fluoranthrene	5	NA	NA	NP	104	301	368	283	NP	NP	NP	239	339	276	NP	NP	NP	NP	363	513	699	NP	NP
Benzo(e)pyrene	5	NA	NA	NP	43.4	151	153	112	NP	160	223	88.9	127	101	176	45.7	NP	NP	231	326	438	261	NP
Benzo(g,h,i)perylene	5	NA	NA	NP	50.3	178	195	145	NP	NP	NP	80.1	103	92.5	NP	NP	NP	NP	338	382	420	NP	NP
Benzo(k)fluoranthrene	5	NA	NA	NP	33.6	112	141	106	NP	NP	NP	96.2	138	111	NP	NP	NP	NP	122	174	250	NP	NP
Biphenyl	5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
Chrysene	5	384	2,800	NP	28.4	81.3	79.1	52.5	NP	190	270	73.8	131	80.5	240	64.9	NP	NP	193	240	393	314	NP
Dibenz(a,h)anthracene	10	63.4	260	NP	10	52.3	70.8	51	NP	40.6	43	35.7	46.9	39.8	34.9	7.3	NP	NP	50.8	69.5	101	53.2	NP
Fluoranthrene	5	600	5,100	NP	46.4	142	140	117	NP	170	302	138	360	136	287	54.9	NP	NP	417	365	366	NP	NP
Fluorene	5	19	540	NP	ND	ND	ND	ND	NP	5.3	NP	ND	8.47	ND	ND	ND	NP	NP	9.09	10.5	12	319	NP
Indeno(1,2,3-c,d)pyrene	10	NA	NA	NP	47.8	216	207	150	NP	NP	NP	94.2	119	107	NP	NP	NP	NP	235	318	378	NP	NP
Naphthalene	5	160	2,100	NP	ND	15.4	12.3	7.69	NP	NP	NP	ND	5.75	ND	NP	NP	NP	NP	13.3	18.5	18.8	NP	NP
Perylene	10	NA	NA	NP	12.2	41.9	36.8	26.8	NP	36.6	57.4	26.8	35.4	30	50.5	11.5	NP	NP	59.8	87	111	67.6	NP
Phenanthrene	5	240	1,500	NP	13.1	36.7	59.1	28.5	NP	44.2	76.4	42	107	44	82	22.5	NP	NP	118	96	107	108	NP
Pyrene	5	665	2,600	NP	43.6	129	135	106	NP	149	310	121	278	119	270	44.4	NP	NP	375	373	419	358	NP
DDT and Metabolites																							
o,p'-DDD	1	NA	NA	NP	3.14	7.11	6.36	4.93	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	4.13	ND	ND	ND	NP
o,p'-DDE	1	NA	NA	NP	ND	ND	1.1	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
o,p'-DDT	1	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	1.07	ND	ND	ND	NP
p,p'-DDD	0.4	NA	NA	NP	10.4	25.8	19.8	16.5	NP	1	2.1	1.2	1.06	0.948	0.8	0.4	NP	NP	16.6	4.51	ND	0.7	NP
p,p'-DDE	1	2.2	27	NP	7.29	16.2	17.2	11.9	NP	1.9	2.9	2.8	3.3	3.44	1.5	ND	NP	NP	11.5	11.1	8.2	2.3	NP
p,p'-DDMS	3	NA	NA	NP	ND	8.07	5.92	6.19	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	ND	ND	ND	NP	NP
p,p'-DDMU	2	NA	NA	NP	4.44	2.96	ND	3.08	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	ND	4.84	ND	NP	NP
p,p'-DDT	1	NA	NA	NP	ND	3.97	2.82	3.93	NP	ND	3	1.15	ND	1.04	ND	ND	NP	NP	11.7	ND	1.11	ND	NP

(table continues)

Table 2-7 (continued)

Parameter	Detect Limit	ERL 1995	ERM 1995	STATION/SAMPLING DATE																			
				93165 NTC Leg 18 5/4/93	93166 NTC Leg 18 5/4/93	93166 NTC Leg 28 3/16/94	93166 NTC Leg 28 3/16/94	93166 NTC Leg 28 3/16/94	93167 NTC Leg 18 5/4/93	90102 NTC Bldg Leg 7 11/11/92	90104 WBasin Leg 12 1/26/93	90104 WBasin Leg 29 3/29/94	90104 WBasin Leg 29 3/29/94	90104 WBasin Leg 29 3/29/94	90049 SD Bay Leg 6 10/27/92	90056 SD Bay Leg 6 10/27/92	90002 E Basin Leg 6 10/27/92	90002 E Basin Leg 15 3/24/93	90002 E Basin Leg 22 8/3/93	93221 Dwntwn Leg 22 8/3/93	93222 Dwntwn Leg 22 8/3/93	90023 NAS North Island Leg 7 11/11/92	90026 PBravo Leg 7 11/10/92
Chlorinated Organic Pesticides																							
Aldrin	0.5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
alpha-BHC	0.2	NA	NA	NP	ND	ND	ND	ND	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	ND	ND	ND	NP	NP
beta-BHC	1	NA	NA	NP	ND	ND	ND	ND	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	ND	ND	ND	NP	NP
gamma-BHC (lindane)	0.2	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	NP	NP
delta-BHC	0.5	NA	NA	NP	ND	ND	ND	ND	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	ND	ND	ND	NP	NP
alpha-Chlordane	0.5	NA	NA	NP	ND	0.733	0.669	ND	NP	NP	ND	ND	ND	ND	ND	ND	NP	NP	5.88	2.81	0.994	NP	NP
gamma-Chlordane	0.5	NA	NA	NP	ND	ND	0.526	ND	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	2.19	0.926	ND	NP	NP
cis-chlordane	0.5	NA	NA	NP	2.4	4.23	4.46	2.61	NP	ND	0.6	ND	0.61	ND	ND	ND	NP	NP	41.3	5.63	4.11	ND	NP
trans-chlordane	0.5	NA	NA	NP	3.48	5.37	5.94	3.72	NP	ND	NP	0.535	0.889	ND	ND	ND	NP	NP	48.3	8.89	5.56	ND	NP
Chlorpyrifos	1	NA	NA	NP	ND	ND	ND	ND	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	4.84	ND	ND	NP	NP
Dacthal	0.2	NA	NA	NP	ND	ND	ND	ND	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	ND	ND	ND	NP	NP
Dieldrin	0.5	NA	NA	NP	ND	ND	0.569	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	3.83	1.06	0.676	ND	NP
Endosulfan I	0.5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
Endosulfan II	1	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
Endosulfan sulfate	2	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
Endrin	2	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
Heptachlor	0.5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	0.603	ND	ND	NP
Heptachlor epoxide	0.5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	0.752	ND	ND	ND	NP
Hexachlorobenzene	0.2	NA	NA	NP	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
Methoxychlor	1.5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
Mirex	0.5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
cis-nonachlor	0.5	NA	NA	NP	2.04	3.51	3.27	2.1	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	19.2	3.51	2.86	NP	NP
trans-nonachlor	0.5	NA	NA	NP	2.2	3.28	4.06	2.4	NP	ND	0.5	ND	0.697	ND	ND	ND	NP	NP	36.8	6.27	3.99	ND	NP
Oxadiazon	2	NA	NA	NP	ND	ND	ND	ND	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	3.19	ND	ND	NP	NP
Oxychlordane	0.5	NA	NA	NP	5.77	ND	ND	ND	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	0.702	ND	ND	NP	NP
p,p'-dichlorobenzophenone	3	NA	NA	NP	ND	ND	ND	ND	NP	NP	NP	ND	ND	ND	NP	NP	NP	NP	3.69	ND	5.54	NP	NP
Toxaphene	10	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	ND	ND	ND	NP
NIST PCB Congeners																							
2,4'-dichlorobiphenyl PCB 8	0.5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	0.933	ND	ND	ND	NP
2,2',5-trichlorobiphenyl PCB 18	0.5	NA	NA	NP	ND	ND	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	1.49	ND	0.513	ND	NP
2,4,4'-trichlorobiphenyl PCB 28	0.5	NA	NA	NP	ND	0.565	ND	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	4.3	3.35	1.16	ND	NP
2,2',3,5'-tetrachlorobiphenyl PCB 44	0.5	NA	NA	NP	ND	1.11	1.2	0.909	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	7.69	4.31	3.98	ND	NP
2,2',5,5'-tetrachlorobiphenyl PCB 52	0.5	NA	NA	NP	0.571	2.19	1.89	1.79	NP	0.5	0.7	1.13	0.585	0.556	0.7	ND	NP	NP	9.5	4.31	6.86	0.8	NP
2,3',4,4'-tetrachlorobiphenyl PCB 66	0.5	NA	NA	NP	1.21	4.62	4	3.79	NP	0.6	1.1	1.08	0.895	1.05	0.8	ND	NP	NP	14.2	13.1	10.4	1.1	NP
2,2',4,5,5'-pentachlorobiphenyl PCB 101	0.5	NA	NA	NP	2.01	7.8	7.48	6.4	NP	1.9	2.6	1.36	1.74	1.89	1.7	ND	NP	NP	12.5	17	19.5	3.5	NP
2,3,3',4,4'-pentachlorobiphenyl PCB 105	0.5	NA	NA	NP	0.884	2.86	3.71	2.6	NP	0.7	0.9	0.898	0.78	0.794	0.8	ND	NP	NP	5.94	10.1	2.85	1.3	NP
2,3',4,4',5-pentachlorobiphenyl PCB 118	0.5	NA	NA	NP	2.49	8.62	8.11	6.45	NP	2.3	3	1.68	1.97	2	2.2	0.5	NP	NP	13	18.9	19.3	3.8	NP

(table continues)

Table 2-7 (continued)

Parameter	Detect Limit	ERL 1995	ERM 1995	STATION/SAMPLING DATE																		
				93165 NTC Leg 18 5/4/93	93166 NTC Leg 18 5/4/93	93166 NTC Leg 28 3/16/94	93166 NTC Leg 28 3/16/94	93166 NTC Leg 28 3/16/94	93167 NTC Leg 18 5/4/93	90102 NTC Bldg Leg 7 11/11/92	90104 WBasin Leg 12 1/26/93	90104 WBasin Leg 29 3/29/94	90104 WBasin Leg 29 3/29/94	90104 WBasin Leg 29 3/29/94	90049 SD Bay Leg 6 10/27/92	90056 SD Bay Leg 6 10/27/92	90002 E Basin Leg 6 10/27/92	90002 E Basin Leg 15 3/24/93	90002 E Basin Leg 22 8/3/93	93221 Dwntwn Leg 22 8/3/93	93222 Dwntwn Leg 22 8/3/93	90023 NAS North Island Leg 7 11/11/92	90026 PBravo Leg 7 11/10/92
2,2',3,3',4,4'-hexachlorobiphenyl PCB 128	0.5	NA	NA	NP	0.672	2.13	1.81	1.44	NP	0.8	1.2	ND	0.502	0.698	0.8	ND	NP	NP	6.47	5.43	1.37	1.3	NP
2,2',3,4,4',5'-hexachlorobiphenyl PCB 138	0.5	NA	NA	NP	4.05	15.3	15.6	11.8	NP	3.3	5.6	3.55	3.91	4.19	3.8	0.9	NP	NP	15.2	26.2	30	5.9	NP
2,2',4,4',5,5'-hexachlorobiphenyl PCB 153	0.5	NA	NA	NP	3.17	14.5	14.5	11.1	NP	3.6	5.1	3.37	3.82	4.14	3.4	0.7	NP	NP	12.5	24.7	24.4	6	NP
2,2',3,3',4,4',5-heptachlorobiphenyl PCB 170	0.5	NA	NA	NP	0.807	2.17	2.51	1.93	NP	1	1.3	0.681	0.63	0.693	0.8	ND	NP	NP	2.64	7.03	6.11	1.7	NP
2,2',3,4,4',5,5'-heptachlorobiphenyl PCB 180	0.5	NA	NA	NP	1.55	5	6.02	4.27	NP	2	2.4	1.38	1.37	1.54	1.7	ND	NP	NP	5.92	14	14.9	3.5	NP
2,2',3,4',5,5',6-heptachlorobiphenyl PCB 187	0.5	NA	NA	NP	1.22	3.84	4.18	3.42	NP	1.4	1.9	1.28	1.21	1.39	1.2	ND	NP	NP	3.78	8.75	8.27	2.2	NP
2,2',3,3',4,4',5,6-octachlorobiphenyl PCB 195	0.5	NA	NA	NP	ND	0.559	0.6	ND	NP	ND	ND	ND	ND	ND	ND	ND	NP	NP	ND	0.998	1.1	ND	NP
2,2',3,3',4,4',5,5',6-nonachlorobiphenyl PCB 206	0.5	NA	NA	NP	ND	1.41	1.64	1.25	NP	ND	0.7	ND	ND	0.529	ND	ND	NP	NP	1.29	2.5	2.82	0.8	NP
2,2',3,3',4,4',5,5',6,6'-decachlorobiphenyl PCB 209	0.5	NA	NA	NP	ND	1.85	1.88	1.49	NP	0.5	0.8	ND	0.669	0.599	0.5	ND	NP	NP	1.02	2.1	2.47	0.9	NP

Sources:
SEDCHEMD.DAT; CHEM2433.XLS; ESTUARY.XLS (SWRCB 1995)

Note:
* shading -- indicates reported concentration above ERL

Acronyms/Abbreviations:
BHC -- benzene hexachloride
DDD -- dichlorodiphenyldichloroethane
DDE -- dichlorodiphenyldichloroethene
DDMS -- 1-chloro-2,2-bis(p-chlorophenyl)ethane
DDMU -- 1-chloro-2,2-bis(p-chlorophenyl)ethene
DDT -- dichlorodiphenyltrichloroethane
ERL -- effects-range low
ERM -- effects-range median
NA -- not applicable
NAS -- Naval Air Station
ND -- not detected
NIST -- National Institute of Standards and Technology
NP -- not performed; analysis for parameter NP
NTC -- Naval Training Center
PCB -- polychlorinated biphenyl

Table 2-8
Bay Protection and Toxic Cleanup Program Preliminary Results
Sediment and Interstitial Water Tests

Test Medium and Species	Endpoint	Percent Concentration	STATION/SAMPLING DATE																		
			93165 NTC Leg 18 5/4/93	93166 NTC Leg 18 5/4/93	93166 NTC Leg 28 3/16/94	93166 NTC Leg 28 3/16/94	93166 NTC Leg 28 3/16/94	93167 NTC Leg 18 5/4/93	90102 NTC Bldg Leg 7 11/11/92	90104 W Basin Leg 12 1/26/93	90104 W Basin Leg 29 3/29/94	90104 W Basin Leg 29 3/29/94	90104 W Basin Leg 29 3/29/94	90049 SDBay Leg 6 10/27/92	90056 SDBay Leg 6 10/27/92	90002 E Basin Leg 6 10/27/92	90002 E Basin Leg 15 3/24/93	90002 E Basin Leg 22 8/3/93	93221 Dwntwn Leg 22 8/3/93	93222 Dwntwn Leg 22 8/3/93	90023 NAS North Island Leg 7 11/11/92	90026 PBravo Leg 7 11/10/92
Sediment																					
Rhepoxynius abronius	Mean percent survival	NA	66	20	52	63	57	71	14	13	72	86	87	80	87	85	85	15	83	88	32	85
Neanthes arenaceodentata	Mean percent survival	NA	NP	NP	92	88	100	NP	NP	NP	96	100	88	84	80	96	NP	68	84	100	NP	NP
Neanthes arenaceodentata	Weight change	NA	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	S	S	NS	NP	NS	S	NS	NP	NP
Interstitial Water																					
Haliotis rufescens	Mean percent normal development	100	NP	NP	NP	NP	NP	NP	95.1	64.4	NP	NP	NP	81.9	79.2	66.2	NP	NP	NP	NP	96.5	94.2
Strongylocentrotus purpuratus	Mean percent normal development	100	36.1	0	NP	NP	NP	6.3	2.2	NP	NP	NP	NP	NP	NP	NP	0	0	0	0	13.5	17.7
	Mean percent normal development	50	96.8	0	NP	NP	NP	50.1	NP	NP	NP	NP	NP	NP	NP	NP	0	0	68.7	18.1	NP	NP
	Mean percent normal development	25	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	0.7	0	94.7	95.1	NP	NP
Strongylocentrotus purpuratus	Mean percent fertilized	100	25	0	NP	NP	NP	73.5	12.5	98.3	NP	NP	NP	12.3	46.9	18.9	0	1	12.3	84	77	0
	Mean percent fertilized	50	95.3	63.7	NP	NP	NP	71.6	NP	NP	NP	NP	NP	NP	NP	NP	0.7	6.7	54.1	92.1	NP	NP
	Mean percent fertilized	25	96.6	95.2	NP	NP	NP	71.6	NP	NP	NP	NP	NP	NP	NP	NP	67.7	1	54.3	87.2	NP	NP

Sources:
TOXICITY.DAT; TOX2433.XLS; ESTUARY.XLS (SWRCB 1995)

Acronyms/Abbreviations:
NA – not applicable
NAS – Naval Air Station
NP – not performed; analysis NP
NS – not statistically significant from the control
NTC – Naval Training Center
S – statistically significant from the control at the 0.05 level

Table 2-9
Sediment Sample Analytical Results for Metals
(concentrations reported as dry weight in milligrams per kilogram)

Station	Sample ID	Sample Depth (feet)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium	Cobalt	Copper	Iron	Lead
Effects-Range Low			NP	2	8.20	NP	NP	1.20	NP	81.00	NP	34.00	NP	46.70
Effects-Range Median			NP	25	70.00	NP	NP	9.60	NP	370.00	NP	270.00	NP	218.00
S1S1	092N1BT	4–6	11,900	0.59 J	2.10	41.70	0.21 J	0.06 U	1,190	16.80	5.90 J	8.70	14,200	3.00
S1S1	092N1MD	1–4	36,600	1.10 J	6.30	164.00	0.61 J	0.55 J	3,310	53.50	16.10 J	33.00	41,900	23.30
S1S1	092N1UP	0–1	55,600	2.20 J	14.60	172.00	1.00 J	3.00	5,410	125.00	20.60	157.00	60,700	299.00
S1S2	092N2BT	4–7	3,810	0.44 UJ	1.60 J	23.30 J	0.09 U	0.05 U	715 J	7.90	2.30 J	3.30 J	6,650	1.30
S1S2	092N2MD	1–4	26,800	0.69 J	4.60	100.00	0.48 J	0.16 U	2,310	33.50	10.90 J	17.90	28,900	6.80
S1S2	092N2UP	0–1	47,500	1.30 J	10.70	176.00	0.90 J	1.00 J	3,880	76.80	18.80	51.90	52,100	42.30
S1S3	092N3BT	4–7	14,400	0.59 UJ	2.50 U	104.00	0.20 J	0.06 U	1,070 J	22.50 J	9.10 J	13.60 J	18,400	4.90 J
S1S3	092N3MD	1–4	19,200	0.58 UJ	3.80	74.30	0.33 J	0.06 U	1,300 J	25.90 J	9.20 J	15.70 J	23,200	5.40 J
S1S3	092N3UP	0–1	35,000	0.99 UJ	10.60	172.00	0.80 J	1.90 J	2,570 J	94.20 J	17.10 J	75.70 J	46,000	126.00 J
S2S1	092C1BT	6–7	45,100	0.86 J	13.60	178.00	0.90 J	0.34 U	4,120	59.90	17.50	31.50	54,600	12.60
S2S1	092C1MD	1–6	6,370	0.33 UJ	1.70	37.90	0.07 U	0.04 U	7,590	10.70	3.80 J	5.20	8,370	2.00
S2S1	092C1UP	0–1	12,700	0.57 J	4.20	53.10	0.19 U	0.34 U	7,850	29.60	6.30 J	48.70	16,200	28.10
S2S2	092C2BT	4.5–7	4,110	0.33 UJ	0.79 J	20.60	0.08 U	0.04 U	19,000	6.80	3.90 J	6.40	5,850	1.10
S2S2	092C2MD	1–4.5	25,400	1.10 J	6.10	133.00	0.57 J	0.28 U	3,250	40.20	13.50 J	22.40	33,900	9.00
S2S2	092C2UP	0–1	26,800	1.60 J	10.3	126.00	0.54 J	1.10 J	2,460	78.90	13.40	67.00	36,400	39.50
S2S3	092C3BT	4–7	6,310	0.71 J	2.20	40.10	0.12 U	0.06 U	512 J	9.60	4.30 J	4.90 J	9,290	2.20
S2S3	092C3MD	1–4	50,600	1.20 J	10.20	182.00	0.95 J	0.47 J	7,340	67.90	21.80	41.00	57,500	16.90
S2S3	092C3UP	0–1	28,700	1.60 J	10.40	161.00	0.77 J	2.00	4,180	107.00	15.40	113.00	41,700	79.10
S3S1	092H1BT	4–7	5,830	0.43 UJ	2.50	23.10 J	0.12 U	0.05 U	937	10.70	3.30 J	4.60	9,510	1.40
S3S1	092H1MD	1–4	19,700	1.00 J	2.40	109.00	0.22 J	0.05 U	1,740	27.10	9.80	15.60	24,200	4.00
S3S1	092H1UP	0–1	24,000	1.10 UJ	4.10	131.00	0.43 J	0.05 U	4,140 J	33.40 J	12.20	26.00 J	29,700	6.60 J
S3S2	092H2BT	5.5–6.7	6,020	0.58 UJ	2.20 U	35.70 J	0.10 U	0.07 U	2,560 J	9.60 J	3.20 J	4.70 J	8,090	1.70 J
S3S2	092H2MD	1–5.5	13,400	0.85 UJ	3.80	54.10	0.19 U	0.16 J	3,280 J	22.40 J	6.20 J	17.00 J	15,800	10.00 J
S3S2	092H2UP	0–1	8,860	0.66 UJ	2.50 U	45.70	0.14 U	0.06 U	2,110 J	16.00 J	5.10 J	17.90 J	11,900	8.90 J
S3S3	092H3BT	4–5.5	21,300	0.58 UJ	2.80 U	102.00	0.41 J	0.07 U	1,340 J	27.40 J	9.70 J	13.20 J	24,600	4.00 J
S3S3	092H3MD	1–4	8,530	0.46 UJ	1.50 U	65.50	0.11 U	0.06 U	705 J	18.70 J	5.20 J	7.60 J	11,100	1.60 UJ
S3S3	092H3UP	0–1	14,300	0.51 UJ	2.20 U	66.00	0.17 U	0.04 U	1,950 J	22.30 J	6.70 J	21.60 J	18,400	6.70 J

(table continues)

Table 2-9 (continued)

Station	Sample ID	Sample Depth (feet)	Magnesium	Manganese	Mercury	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
Effects-Range Low			NP	2	0.15	20.90	NP	NP	1.00	NP	NP	NP	150.00
Effects-Range Median			NP	25	0.71	51.6	NP	NP	3.70	NP	NP	NP	410.00
S1S1	092N1BT	4–6	3,610	92.50	0.03 U	5.50 J	4,040	0.42 U	0.13 U	3,160	0.44 U	36.60	30.90
S1S1	092N1MD	1–4	11,000	268.00	0.13	15.50	12,200	0.74 U	0.28 U7	8,930	0.77 U	105.00	103.00
S1S1	092N1UP	0–1	17,400	362.00	0.83	31.80	17,000	0.91 U	3.20 J	23,900	0.95 U	142.00	405.00
S1S2	092N2BT	4–7	1,390	38.70	0.03 U	2.30 J	1,570	0.38 U	0.12 U	1,170	0.40 U	19.30	11.20
S1S2	092N2MD	1–4	7,100	178.00	0.06 J	10.60	8,020	0.57 U	0.18 U	5,620	0.60 U	77.10	56.40
S1S2	092N2UP	0–1	13,900	323.00	0.37	20.20	15,000	0.71 U	0.70 U	14,300	0.74 U	130.00	152.00
S1S3	092N3BT	4–7	5,060	126.00	0.04 U	7.30 J	5,780	0.47 U	0.15 U	2,750 J	0.49 U	48.90	40.50 J
S1S3	092N3MD	1–4	5,610	142.00	0.03 U	8.00 J	6,360	0.45 U	0.14 U	4,130 J	0.54 J	59.90	44.10 J
S1S3	092N3UP	0–1	13,700	303.00	0.45	21.50	14,400	1.60 U	2.30 J	16,300 J	0.91 U	116.00	239.00 J
S2S1	092C1BT	6–7	14,000	333.00	0.09 J	18.80	15,200	0.46 U	0.15 U	9,090	0.92 J	132.00	113.00
S2S1	092C1MD	1–6	2,470	63.60	0.03 J	2.70 J	2,630	0.54 U	0.09 U	2,800	0.31 U	22.90	18.70
S2S1	092C1UP	0–1	4,950	106.00	0.23	6.70 J	4,840	0.49 U	0.44 U	6,340	0.52 U	39.70	109.00
S2S2	092C2BT	4.5–7	1,450	42.40	0.05 U	2.20 J	1,640	0.29 U	0.13 U	1,470	0.31 U	19.20	11.00
S2S2	092C2MD	1–4.5	9,370	245.00	0.08	12.20	10,600	0.62 U	0.20 U	7,250	0.65 U	84.30	73.60
S2S2	092C2UP	0–1	10,500	230.00	0.49	15.50	10,600	0.57 U	2.10 J	11,200	0.59 U	84.70	158.00
S2S3	092C3BT	4–7	2,450	67.50	0.06 U	3.00 J	2,560	0.43 U	0.14 U	2,930	0.45 U	25.00	18.80
S2S3	092C3MD	1–4	14,700	376.00	0.11 J	22.00	15,500	0.73 U	0.23 U	12,600	1.80 J	135.00	123.00
S2S3	092C3UP	0–1	12,900	294.00	0.58	19.50	13,500	0.63 U	5.00	14,200	0.66 U	105.00	215.00
S3S1	092H1BT	4–7	1,680	55.80	0.04 U	3.50 J	1,740	0.38 U	0.12 U	1,500	0.39 U	32.90	12.10
S3S1	092H1MD	1–4	6,400	163.00	0.05 J	7.60	6,510	0.53 U	0.10 U	2,990	0.31 U	65.50	43.90
S3S1	092H1UP	0–1	8,240	183.00	0.06 J	10.20	8,120	0.75 U	0.12 U	4,290 J	0.54 J	76.20	61.80 J
S3S2	092H2BT	5.5–6.7	2,350	59.90	0.04 U	2.70 J	2,240	0.51 U	0.16 U	3,410 J	0.54 U	21.70	15.60 J
S3S2	092H2MD	1–5.5	4,710	117.00	0.20	6.50 J	4,630	0.68 U	0.14 U	5,130 J	0.46 U	35.10	54.00 J
S3S2	092H2UP	0–1	3,430	80.50	0.10	4.80 J	3,440	0.41 U	0.13 U	4,350 J	0.42 U	31.70	43.10 J1
S3S3	092H3BT	4–5.5	6,860	147.00	0.05 U	9.50	7,460	0.71 U	0.16 U	3,200 J	0.54 U	45.70	49.50 J
S3S3	092H3MD	1–4	2,970	76.90	0.04 U	6.30 J	3,300	0.41 U	0.13 U	2,110 J	0.43 U	32.40	21.30 J
S3S3	092H3UP	0–1	4,660	107.00	0.08 U	7.10	4,420	0.66 U	0.10 U	5,160 J	0.32 U	53.30	45.40 J

Source:
BNI 1996b

Notes:
[a] shading indicates reported concentration above ERL
[b] outline indicates reported concentration above ERM

Acronyms/Abbreviations:
ERL – effects-range low
ERM – effects-range median
NP – not published

Review Qualifiers:
J – estimated value
U – compound or element was analyzed for but not detected above the sample quantitation limit
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value

Table 2-10
Results of Sulfide Analyses
(reported as dry weight in milligrams per kilogram)

Sample ID	Station	Sample Depth (feet)	Sulfide
092N1UP	S1S1	0 to 1	370.00 J
092N1MD		1 to 4	16.00 R
092N1BT		4 to 6	10.30 R
092N2UP	S1S2	0 to 1	19.40 R
092N2MD		1 to 4	13.10 R
092N2BT		4 to 7	11.00 R
092N3UP	S1S3	0 to 1	26.20 J
092N3MD		1 to 4	12.60 R
092N3BT		4 to 5	11.90 R
092C1UP	S2S1	0 to 1	16.70 J
092C1MD		1 to 6	15.80 J
092C1BT		6 to 7	15.80 R
092C2UP	S2S2	0 to 1	22.20 J
092C2MD		1 to 4.5	12.00 R
092C2BT		4.5 to 7	10.50 R
092C3UP	S2S3	0 to 1	24.90 J
092C3MD		1 to 4	23.00 J
092C3BT		4 to 7	15.80 J
092H1UP	S3S1	0 to 1	13.40 R
092H1MD		1 to 4	13.60 J
092H1BT		4 to 7	8.90 R
092H2UP	S3S2	0 to 1	31.80 J
092H2MD		1 to 5.5	14.20 R
092H2BT		5.5 to 6.7	10.70 R
092H3UP	S3S3	0 to 1	11.40 R
092H3MD		1 to 4	12.20 R
092H3BT		4 to 5.5	11.10 R

Review Qualifiers:
J – estimated value
R – data are not usable; before data validation, these values were nondetects

Table 2-11
Sediment Sample Analytical Results for PAHs
(concentrations reported in micrograms per kilogram)

Station	Sample ID	Sample Depth (feet)	Acenaphthene	Acenaphthylene	Anthracene	Fluorene	2-methyl Naphthalene	Naphthalene	Phenanthrene	Total LPAHs	Benz(a) anthracene	Benzo(a) pyrene	Benzo(e) pyrene
Effects-Range Low			16	44	85.3	19	70	160	240	552	261	430	NP
Effects-Range Median			500	640	1,100	540	670	2,100	1,500	3,160	1,600	1,600	NP
S1S1	092N1BT	4–6	2 U	2 U	2 UJ	2 U	0.8 uJ	0.8 uJ	0.7	0.7	2 U	1 J	2 U
S1S1	092N1MD	1–4	3 U	3 U	2 J	3 U	1 uJ	1 uJ	4	6	6	13 J	10
S1S1	092N1UP	0–1	4 U	5 U	14 J	4	6 J	6 uJ	33	51	60	150 J	130
S1S2	092N2BT	4–7	2 U	2 U	2 UJ	2 U	0.5 uJ	0.7 uJ	2 U	—[a]	0.7	0.6 J	0.5
S1S2	092N2MD	1–4	2 U	2 U	2 UJ	2 U	0.8 uJ	0.8 uJ	0.8	0.8	0.9	2 J	1
S1S2	092N2UP	0–1	4 U	1 J	2 J	4 U	3.3 J	3 uJ	7	10	7	21 J	13
S1S3	092N3BT	4–5	2 U	2 U	2 UJ	2 U	2 U	2 U	2 UJ	—	1 J	1 J	1 J
S1S3	092N3MD	1–4	2 U	2 U	2 UJ	2 U	2 U	2 U	1 J	1	1 J	3	3 J
S1S3	092N3UP	0–1	4 U	2 J	5 J	4 U	4 U	2 uJ	15 J	22	16	35	25 J
S2S1	092C1BT	6–7	3 UJ	3 UJ	3 UJ	3 UJ	0.7 uJ	0.8 J	1 J	1	3 UJ	2 J	2 J
S2S1	092C1MD	1–6	2 U	2 U	2 UJ	2 U	1 uJ	1 uJ	2	2	1	2 J	1
S2S1	092C1UP	0–1	3 U	3 U	3	3 U	1 uJ	1 uJ	5	8	13	34	25
S2S2	092C2BT	4.5–7	2 U	2 U	2 UJ	2 U	2 U	0.6 uJ	2 U	—	2 U	0.6 J	2 U
S2S2	092C2MD	1–4.5	4 U	4 U	4 UJ	4 U	2 uJ	2 uJ	3	3	2 U	4 J	3
S2S2	092C2UP	0–1	4 U	4 U	2 J	4 U	1 uJ	2 uJ	6	8	8	23 J	11
S2S3	092C3BT	4–7	2 U	2 U	2 UJ	2 U	0.6 uJ	0.7 uJ	2 U	—	2 U	1 J	2 U
S2S3	092C3MD	1–4	4 U	4 U	1 J	4 U	1 uJ	2 uJ	2	3	2	6 J	3
S2S3	092C3UP	0–1	4 U	3	4 J	4 U	3 uJ	4 uJ	9	16	12	32 J	18
S3S1	092H1BT	4–7	2 U	2 U	2 UJ	2 U	0.9 uJ	1 uJ	2 U	—	2 U	1 J	0.6
S3S1	092HIMD	1–4	2 U	2 U	2 UJ	2 U	1 uJ	1 uJ	0.6	0.6	2 U	2 UJ	2 U
S3S1	092H1UP	0–1	3 U	3 U	5 J	3 U	3 U	3 U	6 J	11	18	30	23 J
S3S2	092H2BT	5.5–6.7	2 U	2 U	2 UJ	2 U	2 U	2 U	2 UJ	—	2 U	2 U	2 UJ
S3S2	092H2MD	1–5.5	3 U	1 J	3 UJ	3 U	1 uJ	2 uJ	8 J	9	11	29	26 J
S3S2	092H2UP	0–1	2 U	2 U	2 J	2 U	2 UJ	2 UJ	4 J	6	10	12	7 J
S3S3	092H3BT	4–5.5	2 U	2 U	2 UJ	2 U	2 U	2 U	2 UJ	—	2 U	2 U	2 UJ
S3S3	092H3MD	1–4	2 U	2 U	2 UJ	2 U	2 U	2 U	2 UJ	—	2 U	2 U	2 UJ
S3S3	092H3UP	0–1	2 U	2 U	1 J	2 U	2 U	2 U	2 J	3	4	6	5 J

(table continues)

Table 2-11 (continued)

Station	Sample ID	Sample Depth (feet)	Benzo(b) fluoranthene	Benzo(k) fluoranthene	Benzo(g,h,i) perylene	Chrysene	Dibenz(a,h) anthracene	Fluoranthene	Indeno(1,2,3-c,d) pyrene	Perylene	Pyrene	Total HPAHs[b]	Total PAHs
Effects-Range Low			NP	NP	NP	384	63.4	600	NP	NP	NP	1,700	4,022
Effects-Range Median			NP	NP	NP	2,800	260	5,100	NP	NP	NP	9,600	44,792
S1S1	092N1BT	4–6	1	0.6 J	2 J	0.9 J	2 UJ	1	1 J	2 U	1	8.5	9.2
S1S1	092N1MD	1–4	15	11 J	15 J	6 J	2 J	12	10 J	3	37	127	136
S1S1	092N1UP	0–1	190	150 J	130 J	76 J	40 J	110	100 J	41	170	1,176	1,404
S1S2	092N2BT	4–7	1	0.7 J	0.9 J	0.5 J	2 UJ	0.7	0.6 J	2 U	0.8	6.5	6.5
S1S2	092N2MD	1–4	2	1 J	3 J	0.9 J	2 UJ	2	2 J	2 U	2	15.8	16.6
S1S2	092N2UP	0–1	40	4 UJ	22 J	10 J	5 J	18	16	4	19	158	188
S1S3	092N3BT	4–5	2 J	3	2 J	1 J	2 U	2 J	1 J	2 U	2 J	15	15
S1S3	092N3MD	1–4	6	2 U	5	2 J	2 U	3 J	3	2 U	5 J	28	29
S1S3	092N3UP	0–1	64	34	34	23	10	38 J	25	5	40 J	319	371
S2S1	092C1BT	6–7	2 J	2 J	4 J	1 J	3 UJ	2 J	2 J	1 J	3 J	18	20
S2S1	092C1MD	1–6	3	2 J	3 J	2 J	1 J	1	2 J	2 U	1	17	19
S2S1	092C1UP	0–1	83	3 U	35	19	14	17	31	8	17	263	304
S2S2	092C2BT	4.5–7	1	1 J	2 J	2 UJ	1 J	0.5	2 J	2 U	0.7	8.8	8.8
S2S2	092C2MD	1–4.5	5	2 J	9 J	3 J	2 J	8	6 J	2	9	48	53
S2S2	092C2UP	0–1	29	16 J	32 J	12 J	9 J	15	24 J	7	18	186	212
S2S3	092C3BT	4–7	2 U	2 UJ	3 J	2 UJ	2 UJ	0.9	1 J	2 U	1	3.9	3.9
S2S3	092C3MD	1–4	6	3 J	11 J	4 J	3 J	5	10 J	4	8	5.8	65
S2S3	092C3UP	0–1	76	3 UJ	44 J	16 J	10 J	26	32 J	4	29	277	315
S3S1	092H1BT	4–7	0.9	0.6 J	1 J	0.7 J	2 UJ	0.5	1 J	2 U	0.7	6.4	6.4
S3S1	092H1MD	1–4	2 U	2 UJ	1 J	2 UJ	2 UJ	0.5	1 J	2 U	2 U	2.5	3.1
S3S1	092H1UP	0–1	43	22	23	27	8	20 J	22	7	22 J	235	276
S3S2	092H2BT	5.5–6.7	2 U	2 U	2 U	2 U	2 U	1 J	2 U	2 U	1 J	2	2
S3S2	092H2MD	1–5.5	26	24	28	13	4	22 J	19	4	26 J	202	215
S3S2	092H2UP	0–1	21	13	11	11	5	10 J	9	2 J	11 J	113	128
S3S3	092H3BT	4–5.5	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 UJ	—	—
S3S3	092H3MD	1–4	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 UJ	—	—
S3S3	092H3UP	0–1	8	8	5	8	1 J	5 J	4	1 J	6 J	55	64

Source:
BNI 1996b

Notes:
[a] dash indicates dichlorodiphenyltrichloroethanes were not detected above the sample quantitation limit in this sample
[b] total HPAH is the summation of fluoranthene, pyrene, benz(a)anthracene, chrysene, total benzofluoranthenes (the sum of b, j, and k isomers), benzo(a)pyrene, ideno(1,2,3-c,d)pyrene, dibenz(a,h)anthracene, and benzo(g,h,i)perylene; this summation method is similar to that used by the state of Washington

Acronyms/Abbreviations:
HPAH – high-molecular-weight polynuclear aromatic hydrocarbon
LPAH – low-molecular-weight polynuclear aromatic hydrocarbon
NP – not published
PAH – polynuclear aromatic hydrocarbon

Review Qualifiers:
J – estimated value
U – the compound or analyte was analyzed for but not detected above the sample quantitation limit
u – data deemed unusable and results adjusted to not detected based on field and rinsate blanks
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value

Table 2-12
Sediment Sample Analytical Results for PCBs
(concentrations reported in micrograms per kilogram)

Station	Sample ID	Sample Depth (feet)	PCB 8	PCB 18	PCB 28	PCB 44	PCB 52	PCB 66	PCB 77	PCB 101	PCB 105	PCB 118	PCB 126
Effects-Range Low			NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Effects-Range Median			NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
S1S1	092N1BT	4–6	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
S1S1	092N1MD	1–4	0.17 UJ	0.17 UJ	0.17 UJ	0.17 UJ	0.17 UJ	0.17 UJ	0.17 UJ	0.27 J	0.17 UJ	0.17 UJ	0.17 UJ
S1S1	092N1UP	0–1	2.9 U	2.9 U	3.1	2.9 U	6.5	9.5	2.9 U	13	5.7	8.9	2.9 U
S1S2	092N2BT	4–7	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
S1S2	092N2MD	1–4	0.12U	0.12U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S1S2	092N2UP	0–1	0.23UJ	0.23UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.23 UJ	0.47 J	0.3 J	0.23 UJ	0.23 UJ
S1S3	092N3BT	4–5	0.13 UJ	0.13 UJ	0.13 UJ	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U
S1S3	092N3MD	1–4	0.13 UJ	0.13 UJ	0.13 U	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ
S1S3	092N3UP	0–1	0.32 J	1.1 J	0.25 J	0.22 UJ	1.9 J	0.96 J	0.22 UJ	2 J	1.1 J	1.6 J	0.25 J
S2S1	092C1BT	6–7	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ
S2S1	092C1MD	1–6	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
S2S1	092C1UP	0–1	0.16 UJ	0.16 UJ	0.17 J	0.16 J	0.34 J	0.16 UJ	0.16 UJ	0.59 J	0.55 J	0.91	0.16 UJ
S2S2	092C2BT	4.5–7	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S2S2	092C2MD	1–4.5	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
S2S2	092C2UP	0–1	0.19 U	0.26	0.24	0.19	0.62	0.19 U	0.19 U	0.87	0.52	0.93	0.19 U
S2S3	092C3BT	4–7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
S2S3	092C3MD	1–4	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
S2S3	092C3UP	0–1	0.13 U	0.30	0.64	0.28	0.70	0.13 U	0.13 U	1.4	0.73	1.1	0.13 U
S3S1	092H1BT	4–7	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
S3S1	092HIMD	1–4	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S3S1	092H1UP	0–1	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.16 J	0.26 J	0.33 J	0.12 J
S3S2	092H2BT	5.5–6.7	0.12 UJ	0.12 U	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ
S3S2	092H2MD	1–5.5	0.14 UJ	0.58 J	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	1.2 J	0.97 J	1.5 J	0.13 J
S3S2	092H2UP	0–1	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.45 J	0.38 J	0.71 J	0.14 UJ
S3S3	092H3BT	4–5.5	0.12 UJ	0.12 UJ	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S3S3	092H3MD	1–4	0.12 UJ	0.12 UJ	0.12 U	0.12 U	0.12 UJ	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S3S3	092H3UP	0–1	0.13 UJ	0.13 UJ	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.14 J	0.13 U	0.13 U	0.13 U

(table continues)

Table 2-12 (continued)

Station	Sample ID	Sample Depth (feet)	PCB 128	PCB 138	PCB 153	PCB 170	PCB 180	PCB 187	PCB 195	PCB 206	PCB 209	Total PCBs[a]
Effects-Range Low			NP	NP	NP	NP	NP	NP	NP	NP	NP	22.7
Effects-Range Median			NP	NP	NP	NP	NP	NP	NP	NP	NP	180
S1S1	092N1BT	4–6	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	—
S1S1	092N1MD	1–4	0.17 UJ	0.61 J	0.28 J	0.17 UJ	0.20 J	0.17 UJ	0.17 UJ	0.17 UJ	0.17 UJ	1.36
S1S1	092N1UP	0–1	2.9 U	22	10	3.5	6.4	3.8	2.9 U	2.9 U	2.9 U	92.40[b]
S1S2	092N2BT	4–7	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	—
S1S2	092N2MD	1–4	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	—
S1S2	092N2UP	0–1	0.23 UJ	1.3 J	0.49 J	0.23 UJ	0.35 J	0.26 J	0.23 UJ	0.23 UJ	0.23 UJ	3.17
S1S3	092N3BT	4–5	0.13 U	0.17 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.17
S1S3	092N3MD	1–4	0.13 UJ	0.20 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.20
S1S3	092N3UP	0–1	0.22 UJ	3.9 J	0.22 UJ	0.63 J	1.2 J	0.22 UJ	0.22 UJ	0.43 J	0.53 J	16.17
S2S1	092C1BT	6–7	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	—
S2S1	092C1MD	1–6	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	—
S2S1	092C1UP	0–1	0.16 UJ	0.16 UJ	1.1 J	0.32 J	0.62 J	0.47 J	0.16 UJ	0.16 UJ	0.16 UJ	5.07
S2S2	092C2BT	4.5–7	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	—
S2S2	092C2MD	1–4.5	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	—
S2S2	092C2UP	0–1	0.19 U	0.19 U	1.3	0.36	0.72	0.59	0.19 U	0.22	0.34	6.97
S2S3	092C3BT	4–7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	—
S2S3	092C3MD	1–4	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	—
S2S3	092C3UP	0–1	0.13 U	0.13 U	1.3	0.34	0.66	0.58	0.13 U	0.20	0.24	8.47
S3S1	092H1BT	4–7	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	—
S3S1	092HIMD	1–4	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	—
S3S1	092H1UP	0–1	0.13 UJ	0.8 J	0.13 U	0.14 J	0.22 J	0.13 UJ	0.13 UJ	0.13 UJ	0.32 J	2.35
S3S2	092H2BT	5.5–6.7	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	0.12 UJ	—
S3S2	092H2MD	1–5.5	0.14 UJ	2.2 J	0.14 UJ	0.46 J	0.88 J	0.14 UJ	0.18 UJ	0.19 J	0.25 J	8.36
S3S2	092H2UP	0–1	0.14 UJ	1.1 J	0.14 UJ	0.22	0.36 J	0.3 J	0.14 UJ	0.14 UJ	0.14 UJ	3.52
S3S3	092H3BT	4–5.5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	—
S3S3	092H3MD	1–4	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	—
S3S3	092H3UP	0–1	0.13 U	0.53 J	0.13 U	0.13 U	0.14 J	0.13 U	0.13 U	0.13 U	0.13 U	0.81

Source:
BNI 1996b

Notes:
[a] total PCBs – the summation of detected concentrations of polychlorinated biphenyls
[b] shading indicates reported concentration above ERL

Acronyms/Abbreviations:
ERL – effects-range low
NP – not published
PCB – polychlorinated biphenyl

Review Qualifiers:
J – estimated value
U – the compound or analyte was analyzed for but not detected above the sample quantitation limit
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value

Table 2-13
Sediment Sample Analytical Results for Pesticides
(concentrations reported in micrograms per kilogram)

Station	Sample ID	Sample Depth (feet)	4,4'-DDD	O,P'-DDD	4,4'-DDE	O,P'-DDE	4,4'-DDT	O,P'-DDT	Total DDTs	alpha-Chlordane	Dieldrin	Heptachloroepoxide	Hexachlorobenzene	Aldrin	Heptachlor
Effects Range-Low			NP	NP	2.2	NP	NP	NP	1.58	NP	NP	NP	NP	NP	NP
Effects Range-Median			NP	NP	27.00	NP	NP	NP	46.10	NP	NP	NP	NP	NP	NP
S1S1	092N1BT	4–6	0.13 U	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	—[a]	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
S1S1	092N1MD	1–4	31.00 E	11.00	3.20	0.17 U	0.17 U	0.17 U	45.2	0.31	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
S1S1	092N1UP	0–1	970.00 E	290.00	86.00	2.90 U	8.00 J	2.90 U	1,354	34.00	3.40	4.30	2.90 U	3.20	2.90 U
S1S2	092N2BT	4–7	0.18	0.11 U	0.11 U	0.11 U	0.11 UJ	0.11 U	0.18	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
S1S2	092N2MD	1–4	0.12 U	0.12 U	0.12 U	0.12 U	0.12 UJ	0.12 U	—	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S1S2	092N2UP	0–1	4.20	2.60	2.10	0.23 U	0.23 UJ	0.23 U	8.90	0.30	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
S1S3	092N3BT	4–5	1.10	0.58	0.42	0.13 U	0.13 U	0.12 J	2.10	0.10 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
S1S3	092N3MD	1–4	0.62	0.40	0.42	0.13 U	0.13 U	0.13 U	1.44	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
S1S3	092N3UP	0–1	35.00 J	19.00 J	13.00 J	0.63 J	0.24 J	0.22 UJ	67.87	2.30 J	0.36 J	0.22 UJ	0.40 J	0.22 UJ	0.22 UJ
S2S1	092C1BT	6–7	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ13	0.16 UJ	0.16 UJ	—	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ	0.16 UJ
S2S1	092C1MD	1–6	0.13 U	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	—	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
S2S1	092C1UP	0–1	1.20	1.50	1.30	0.16 U	1.50 J	0.16 U	5.50	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
S2S2	092C2BT	4.5–7	0.12 U	0.12 U	0.12 U	0.12 U	0.12 UJ	0.12 U	—	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S2S2	092C2MD	1–4.5	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	0.19 U	—	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
S2S2	092C2UP	0–1	1.50	1.40	0.65	0.19 U	18.00 J	0.19 U	21.55	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
S2S3	092C3BT	4–7	0.13 U	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	—	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
S2S3	092C3MD	1–4	0.19 U	0.19 U	0.19 U	0.19 U	0.19 UJ	0.19 U	—	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
S2S3	092C3UP	0–1	3.40	3.80	3.00	1.30	0.26 J	0.13 U	11.76	0.36	0.29	1.20	0.25	0.13 U	0.13 U
S3S1	092H1BT	4–7	0.11 U	0.11 U	0.11 U	0.11 U	0.11 UJ	0.11 U	—	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
S3S1	092H1MD	1–4	0.12 U	0.12 U	0.12 U	0.12 U	0.12 UJ	0.12 U	—	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S3S1	092H1UP	0–1	0.17 J	0.47 J	0.54 J	0.13 UJ	0.13 UJ	0.13 UJ	1.18	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ	0.13 UJ
S3S2	092H2BT	5.5–6.7	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	—	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S3S2	092H2MD	1–5.5	0.31	2.00	0.85	0.14 U	0.14 U	0.14 U	3.16	0.14 U	0.14 U	0.14 U	0.17	0.14 U	0.14 U
S3S2	092H2UP	0–1	0.29	0.99	0.47	0.14 U	0.14 U	0.15	1.9	0.14 U	0.14	0.14 U	0.14 U	0.14 U	0.14 U
S3S3	092H3BT	4–5.5	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	—	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S3S3	092H3MD	1–4	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	—	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
S3S3	092H3UP	0–1	0.13 U	0.29	0.31	0.13 U	0.13 U	0.13 U	0.6	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

Source:
BNI 1996b

Notes:
[a] dash indicates DDTs were not detected above the sample quantitation limit in this sample
[b] shading indicates reported concentration above ERL
[c] outline indicates reported concentration above ERM

Acronyms/Abbreviations:
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethene
DDT – dichlorodiphenyltrichloroethane
ERL – effects-range low
ERM – effects-range median
NP – not published

Laboratory Flag:
E – compound concentration exceeded the calibration range of the gas chromatography/mass spectroscopy instrument

Review Qualifiers:
J – estimated value
U – the compound or analyte was analyzed for but not detected above the sample quantitation limit

Table 2-14
Results of Clam Tissue Analyses
(as received on a wet-weight basis)

Analyte	Stratum 1[a] (S1S1)	Stratum 2 (S2S1)	Stratum 3 (S3S1)	Baseline[b]	Control[c]
Metals (mg/kg)					
Antimony	0.05 U	0.17 U	0.12 U	0.04 U	0.05 U
Arsenic	3.00[d]	2.60	2.50	2.80	2.70
Barium	0.56 J	0.57 J	1.00 J	0.23 J	0.40 J
Beryllium	0.00 U	0.01 U	0.00 U	0.00 U	0.00 U
Cadmium	0.02 J	0.04 J	0.04 J	0.02 J	0.04 J
Chromium	0.38 J	0.40 J	0.49	0.20 J	0.40 J
Cobalt	0.21 J	0.24 J	0.23 J	0.14 U	0.23 U
Copper	2.10	5.30	3.10	2.10	2.00
Lead	1.10	0.63	0.53	0.08 U	0.10 J
Manganese	1.40	1.30	2.00	0.60 J	1.40
Mercury	0.02 UJ	0.02 U	0.02 J	0.02 UJ	0.02 J
Nickel	0.42 J	0.37 J	0.37 J	0.35 J	0.66 J
Selenium	0.44	0.37	0.26	0.31	0.33
Silver	0.07 J	0.06 J	0.06 J	0.05 U	0.10 J
Thallium	0.22 U	0.21 U	0.22 U	0.20 U	0.22 U
Vanadium	0.50 J	0.57 J	0.67 J	0.16 J	0.33 J
Zinc	14.50 J	12.10 J	15.10 J	12.60 J	11.80 J
Organotins (µg/kg)					
Monobutyltin	1.70 UJ	1.70 UJ	1.70 U	1.70 UJ	1.40 UJ
Dibutyltin	5.90	3.20	4.00	1.70 U	1.40 J
Tributyltin	9.20	4.40	13.00	1.70 U	1.40 U
LPAHs (µg/kg)					
Acenaphthene	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U
Acenaphthylene	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U
Anthracene	8.00 UJ	8.00 UJ	8.00 UJ	8.00 UJ	8.00 UJ
Fluorene	8.00 UJ	8.00 UJ	8.00 UJ	8.00 UJ	8.00 UJ
2-methyl naphthalene	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U
Naphthalene	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U
Phenanthrene	8.00 U	8.00 U	8.00 U	8.00 U	8.00 U
HPAHs (µg/kg)					
Benz(a)anthracene	8.00 U	8.00 U	7.00 J	8.00 UJ	8.00 UJ
Benzo(a)pyrene	13.00	12.00	16.00	8.00 UJ	8.00 UJ

(table continues)

Table 2-14 (continued)

Analyte	Stratum 1[a] (S1S1)	Stratum 2 (S2S1)	Stratum 3 (S3S1)	Baseline[b]	Control[c]
HPAHs (µg/kg) (continued)					
Benzo(e)pyrene	18.00	19.00	24.00	8.00 UJ	8.00 UJ
Benzo(b)fluoranthene	24.00	22.00	23.00	8.00 UJ	8.00 UJ
Benzo(k)fluoranthene	13.00	14.00	12.00	8.00 UJ	8.00 UJ
Benzo(g,h,i)perylene	90.00	11.00	10.00	8.00 UJ	8.00 UJ
Chrysene	9.00	8.00 U	10.00	8.00 UJ	8.00 UJ
Dibenz(a,h)anthracene	8.00 U	8.00 U	8.00 U	8.00 UJ	8.00 UJ
Fluoranthene	8.00 UJ	8.00 UJ	8.00 UJ	8.00 UJ	8.00 UJ
Indeno(1,2,3-c,d)pyrene	8.00 U	8.00 U	8.00 U	8.00 UJ	8.00 UJ
Pyrene	9.00 J	8.00 J	9.00 J	8.00 UJ	8.00 UJ
SVOCs (µg/kg)					
Phenol	66.00 UJ	66.00 UJ	66.00 UJ	66.00 UJ	66.00 UJ
1,2-dichlorobenzene	66.00 U	66.00 U	66.00 U	66.00 U	66.00 U
1,3-dichlorobenzene	66.00 U	66.00 U	66.00 U	66.00 U	66.00 U
1,4-dichlorobenzene	66.00 UJ	66.00 UJ	66.00 UJ	66.00 UJ	66.00 UJ
Pesticides (µg/kg)					
4,4'-DDD	32.00	2.70	0.40 U	1.50 J	0.51
4,4'-DDE	9.60	2.80	2.30	0.70 J	0.40 U
4,4'-DDT	1.60	1.20	0.40 U	0.40 UJ	0.40 U
o,p'-DDD	7.10	0.92	0.40 U	0.40 UJ	0.40 U
o,p'-DDE	1.20 U	0.40 U	0.40 U	0.40 UJ	1.10
o,p'-DDT	2.00	0.40 U	0.40 U	0.40 UJ	0.40 U
Aldrin	1.20 U	0.40 U	0.40 U	0.40 UJ	0.40 U
alpha-Chlordane	2.40	0.82	0.40 U	0.40 UJ	0.40 U
Dieldrin	1.20 U	0.40 U	0.40 U	0.71 J	0.40 U
Heptachlor epoxide	1.20 U	0.40 U	0.40 U	0.44 J	0.40
Hexachlorobenzene	1.20 U	0.40 U	0.40 U	0.40 UJ	0.40 U
Trans-nonachlor	1.20 U	0.40 U	0.40 U	0.40 UJ	0.40 U
gamma-BHC (lindane)	1.20 U	0.40 U	0.40 U	1.10 J	0.88
PCBs[c] (µg/kg)					
PCB 8 (2,4')	1.20 U	0.40 U	0.40 U	1.60 J	0.40 U
PCB 44 (2,2',3,5')	1.20 U	0.40 U	0.40 U	0.40 UJ	0.54
PCB 66 (2,3',4,4')	0.98 J	1.50	1.70	0.40 UJ	0.40 U
PCB 77 (3,3',4,4')	1.20 U	0.40 U	0.40 U	1.60 J	0.40 U
PCB 101 (2,2',3,5,5')	1.70	1.60	2.30	0.40 UJ	0.40 U
PCB 105 (2,3,3',4,4')	1.20 UJ	0.73 J	0.71 J	0.40 UJ	0.40 UJ

(table continues)

Table 2-14 (continued)

Analyte	Stratum 1[a] (S1S1)	Stratum 2 (S2S1)	Stratum 3 (S3S1)	Baseline[b]	Control[c]
PCBs (µg/kg) (continued)					
PCB 138 (2,2',3,4,4',5')	1.90	2.40	2.90	0.40 UJ	0.40 U
PCB 153 (2,2',4,4',5,5')	3.10	3.40	3.60 J	0.40 UJ	0.40 U

Notes:
[a] one bioaccumulation test was conducted in each stratum
[b] these results represent the amount of chemicals in the tissue before the initiation of the bioaccumulation test
[c] these results represent the amount of chemicals in the tissue after exposure to clean sediment from Tomales Bay, California
[d] shading indicates reported concentrations that exceed both the baseline and control concentrations
[e] only those PCB congeners that were detected in at least one sample are presented

Acronyms/Abbreviations:
BHC – benzene hexachloride
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethene
DDT – dichlorodiphenyltrichloroethane
HPAH – high-molecular-weight polynuclear aromatic hydrocarbon
LPAH – low-molecular-weight polynuclear aromatic hydrocarbon
µg/kg – micrograms per kilogram
mg/kg – milligrams per kilogram
PCB – polychlorinated biphenyl
SVOC – semivolatile organic compound

Review Qualifiers:
J – estimated value
U – the compound or element was analyzed for but not detected above the sample quantitation limit
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value

Amphipod survival were lowest in Stratum 1, ranging from 46 to 67 percent. The lowest amphipod survival was observed in sediments from station S1S1, which is closest to the MCRD recreational dock. Reburial seemed to be unaffected, ranging from 83 to 94 percent with the highest reburial found in sediments with the highest mortality. In Stratum 2, amphipod survival ranged from 87 to 95 percent, and reburial ranged from 86 to 91 percent. Stratum 3 survival ranged from 86 to 91 percent, and reburial ranged from 76.2 to 85.2 percent.

Polychaete worm survival was 100 percent in sediments from stations in Stratum 1, 2, and 3. Polychaete growth was based on mean dry weights that ranged from 12.38 milligrams at station S1S3 to 16.68 milligrams at station S3S1. Mean dry weight in the control group was 15.02 milligrams.

Table 2-15
Summary of Sediment Bioassay Test Results

Station Number	AMPHIPOD		POLYCHAETE		BIVALVE LARVAE			SEA URCHIN LARVAE	
	Survival (percent)	Reburial (percent)	Survival (percent)	Mean Growth (mg, dry wt)	Survival* (percent)	Normal Development* (percent)	IC_{25} (percent)	Normal Development* (percent)	IC_{25} (percent)
S1S1	46	94.2	100	14.40	78.6	74.9	> 100	0.0	36.1
S1S2	84	87.2	100	13.61	97.7	99.7	> 100	98.1	> 100
S1S3	67	83.2	100	12.38	98.2	100.0	> 100	97.9	> 100
S2S1	89	86.6	100	15.58	99.2	99.4	> 100	95.7	> 100
S2S2	87	91.0	100	12.89	106.0	99.1	> 100	90.5	> 100
S2S3	95	91.0	100	14.54	106.0	99.8	> 100	90.8	> 100
S3S1	89	85.2	100	16.68	96.2	99.8	> 100	96.6	> 100
S3S2	91	81.4	100	16.24	88.8	99.7	> 100	71.9	97.1
S3S3	86	76.2	100	14.24	90.0	97.8	> 100	14.4	23.6
Control	96	94.0	100	15.02	104.3	98.7	> 100	98.4	> 100

Note:
* bivalve and sea urchin results are shown for 100 percent porewater concentration.

Acronyms/Abbreviations:
mg, dry wt – dry weight in milligrams
IC_{25} – inhibitory concentration for 25 percent of the population

Table 3-1
Physical Characteristics of the Boat Channel Reference Stations

Reference Station	Elevation (feet below MLLW)	Grain Size (fines, percent)	Total Organic Carbon (percent)
S3S1	11.4	35.5	0.59
S3S2	11.1	31.2	0.71
S3S3	12.6	37.5	0.50
S3S4	26.1	53.8	0.89
S3S5	26.0	61.8	0.94
Reference Station Range	11.1–26.1	31.2–61.8	0.50–0.94
Boat Channel Range	5.9–25.3	23–94.7	0.81–3.13

Acronym/Abbreviation:
MLLW – mean lower low water

3.1.4.1 NAVIGATION AND STATION POSITIONING

Vessel positioning during sediment sampling was accomplished by Kinnetic Laboratories, Inc. (KLI), using a Trimble Model 4000 differential GPS. The coordinates of each station are listed in Table 3-2 and the locations are shown on Figure 3-1. Station depths were recorded using a marked lead line and then converted to MLLW datum by tidal corrections.

3.1.4.2 SURFACE SEDIMENT SAMPLE COLLECTION

Surficial sediment samples were collected from each of the 31 stations to obtain the volume of sediment needed for chemical analysis, quality assurance (QA)/quality control (QC), toxicity, and benthic community analysis. At selected sites, extra sediment was collected for porewater chemistry and bioaccumulation tests.

Grab samples of surface sediment were collected at each of the 31 stations from 0 to 15 centimeters below the channel bottom. The samples were collected using a Gray O'Hara Box Core (0.1-m^2 surface area) originally developed for dredge material studies conducted by USACE. The box core consisted of a Kynar-coated stainless steel box with a set of mechanically closing doors. The corer was lowered by cable to the channel bottom, and the door-closing mechanism tripped when the cable was slacked and closed on the first tug on the cable. This device provides efficient sampling in soft mud or coarse sands with minimal disturbance. Multiple drops were needed at each station to collect sufficient sample volume for toxicity and bioaccumulation tests.

After the box core was aboard the vessel, field observations of the sediment sample were recorded. Notes were taken on the date and time of each core, the weather and sea state, the vessel and sampling equipment used, the coordinates of each core, and other relevant

Table 3-2
Sediment Sampling Station Coordinates

Station ID	Latitude	Longitude	Feet Penetrated	Feet Recovered	Elevation of Channel Bottom (feet below MLLW)
Stratum 1, Upper Boat Channel					
S1S1	32°44'19.53"	117°12'27.43"	9	7	22.6
S1S2	32°44'22.08"	117°12'31.19"	9	8	16.6
S1S3	32°44'24.82"	117°12'27.62"	9	8.9	7.9
S1S4	32°44'23.32"	117°12'28.59"	9	8	21.9
S1S5	32°44'20.57"	117°12'34.05"	9	7.8	8.9
S1S6	32°44'20.48"	117°12'28.76"	9	8.5	25.3
S1S7	32°44'21.28"	117°12'27.60"	9	8	20.5
S1S8	32°44'19.18"	117°12'31.38"	9	7.4	23.2
S1S9	32°44'16.10"	117°12'29.22"	9.5	6.5	15.1
S1S10	32°44'16.78"	117°12'26.77"	9	8.3	15.2
Stratum 2, Lower Boat Channel					
S2S1	32°43'47.89"	117°12'49.34"	9.1	8.5	12.1
S2S2	32°43'58.66"	117°12'44.90"	9	8	14.8
S2S3	32°44'12.84"	117°12'29.94"	9	8.5	14.4
S2S4	32°44'13.82"	117°12'27.78"	10	9	15.5
S2S5	32°44'10.56"	117°12'29.90"	10	9	5.9
S2S6	32°44'09.98"	117°12'32.43"	9	8.9	15.1
S2S7	32°44'06.15"	117°12'38.45"	9	8.3	11.7
S2S8	32°44'08.34"	117°12'33.38"	9	8.2	14.5
S2S9	32°44'02.94"	117°12'41.76"	9.5	7	9.4
S2S10	32°43'60.00"	117°12'43.05"	9	8.8	14.8
S2S11	32°43'57.89"	117°12'42.99"	9	8.3	7.7
S2S12	32°43'55.52"	117°12'47.45"	9	8.5	NA
S2S13	32°43'53.87"	117°12'46.97"	9	8.5	9.5
S2S14	32°43'55.40"	117°12'48.22"	8.5	8.5	15.5
S2S15	32°43'48.12"	117°12'51.74"	9	8	15.5
S2S16	32°43'46.10"	117°12'52.44"	9	8	14.4
Stratum 3, Reference Area					
S3S1	32°43'35.19"	117°12'49.68"	8	8	11.4
S3S2	32°43'28.38"	117°12'51.73"	8.5	8. 3	11.1
S3S3	32°43'38.78"	117°12'48.91"	8	7.5	12.6
S3S4	32°43'24.00"	117°12'51.95"	9.5	9.5	26.1
S3S5	32°43'23.84"	117°12'51.96"	9	8.5	26.0

(table continues)

Table 5-1
Results of Total Organic Carbon Analyses and Grain-Size Evaluation of Surface Sediment

Sample ID	Station	Total Organic Carbon (Percent)	Percent Clay[a]	Percent Silt[b]	Percent Fines[c]	Percent Very Fine Sand[d]	Percent Fine Sand[e]	Percent Medium Sand[f]	Percent Coarse Sand[g]	Percent Very Coarse Sand[h]	Percent Gravel[i]
Stratum 1, Upper Boat Channel											
C001SS03	S1S1	2.85	46.4	41.1	87.5	2.04	1.18	1.38	3.48	3.58	0.6
C001SS32	S1S1	2.92	48.8	41.7	90.5	2.11	0.55	0.55	1.51	3.32	0.62
C001SS01	S1S2	2.12	41.9	43.6	85.5	2.72	2.35	1.66	2.3	3.67	0.56
C001SS34	S1S2	2.16	49.4	41.4	90.8	3.1	2.37	1.41	1.05	0.72	0.82
C001SS02	S1S3	0.85	14.1	8.91	23.01	15.7	33.5	20.1	3.23	0.85	0.98
C001SS19	S1S4	2.88	50.8	43.9	94.7	1.72	1.4	1.28	0.98	0.59	0.03
C001SS20	S1S5	1.79	35.7	42.5	78.2	10.3	6.02	1.65	0.8	0.72	1.41
C001SS18	S1S6	2.83	52.2	41.3	93.5	0.85	1.04	1.27	2.36	1.84	0.04
C001SS04	S1S7	3.13	46	43	89.0	3.51	3.1	1.51	1.51	0.56	0.02
C001SS13	S1S8	2.91	48.3	42	90.3	0.27	0.51	0.76	3.89	1.61	0
C001SS14	S1S9	2.19	45.6	44.5	90.1	3.63	1.84	0.89	0.61	0.65	0.7
C001SS05	S1S10	2.45	36.9	28.4	65.3	12.9	12	2.99	1.88	2.1	2.82
Stratum 2, Lower Boat Channel											
C001SS06	S2S1	0.92	21.1	30	51.1	20.9	22	4.33	0.4	0.09	0.05
C001SS12	S2S2	1.04	34.7	49.8	84.5	6.05	4.53	1.81	1	0.64	0.07
C001SS08	S2S3	1.86	36.4	38.8	75.2	10.8	6.8	2.09	1.13	0.32	0.04
C001SS33	S2S3	1.72	38.3	36.2	74.5	8.38	11	2.51	1.12	0.59	0.14
C001SS07	S2S4	2.71	42.5	42.8	85.3	6.37	2.85	1.34	1.47	0.86	0.02
C001SS09	S2S5	0.81	17.3	14.7	32.0	34.6	27.9	4.19	0.38	0.19	0.66
C001SS15	S2S6	1.57	34.9	36.4	71.3	15.1	6.29	2.08	0.99	0.6	0.6
C001SS16	S2S7	0.83	18.8	16.8	35.6	27.4	26.7	4.18	0.86	0.19	0.13
C001SS17	S2S8	1.29	29	33.8	62.8	19.5	13.6	2.67	0.64	0.3	0.05
C001SS10	S2S9	1.62	24.8	22.9	47.7	18.3	19.4	1.34	0.26	0.13	5.74
C001SS21	S2S10	1.46	35.2	45.9	81.1	9.57	5.42	1.61	0.53	0.71	0.04

(table continues)

Table 5-1 (continued)

Sample ID	Station	Total Organic Carbon (Percent)	Percent Clay[a]	Percent Silt[b]	Percent Fines[c]	Percent Very Fine Sand[d]	Percent Fine Sand[e]	Percent Medium Sand[f]	Percent Coarse Sand[g]	Percent Very Coarse Sand[h]	Percent Gravel[i]
C001SS26	S2S11	1.04	27.1	28.5	55.6	25.6	17.2	1.42	0.27	0.09	0.18
C001SS22	S2S12	1.53	32.5	58	90.5	5.18	0.69	0.51	0.07	4.38	0
C001SS35	S2S12	1.04	31.1	50.2	81.3	5.23	2.65	0.84	0.36	0.19	0.04
C001SS23	S2S13	1.47	32.9	51.3	84.2	11.5	4.56	0.73	0.17	0.16	0.03
C001SS11	S2S14	1.72	32.3	56.5	88.8	3.67	1.75	0.59	0.32	0.6	0
C001SS24	S2S15	1.39	28.6	51.2	79.8	8.08	6.89	2.17	0.35	0.06	0.03
C001SS25	S2S16	1.03	24.1	38.9	63.0	14.6	19.7	3.08	0.41	0.07	0
Stratum 3, Reference Area											
C001SS30	S3S1	0.59	14.2	21.3	35.5	26.6	28.3	6.16	1.14	0.43	0.2
C001SS29	S3S2	0.71	12.7	18.5	31.2	18.8	22.9	13.14	8.57	2.79	0.75
C001SS31	S3S3	0.5	12.7	24.8	37.5	18.1	23.8	14.6	4.85	0.86	0.04
C001SS27	S3S4	0.89	17	36.8	53.8	25.9	14.1	1.19	0.47	0.24	0
C001SS28	S3S5	0.94	23.1	38.7	61.8	24.4	14.6	1.2	0.29	0.1	0.05

Notes:

[a] clay: 0.0025 to 0.004 mm
[b] silt: 0.004 to 0.062 mm
[c] perent clay plus percent silt
[d] very fine sand: 0.062 to 0.125 mm
[e] fine sand: 0.125 to 0.250 mm
[f] medium sand: 0.250 to 0.500 mm
[g] coarse sand: 0.500 to 1 mm
[h] very coarse sand: 1 to 2 mm
[i] gravel: > 2 mm

Acronym/Abbreviation:
mm – millimeter

Table 5-2
Results of Total Organic Carbon Analyses and Grain-Size Evaluation of Subsurface Sediment
(results reported in percent)

Analyte	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/SAMPLE DEPTH										
	S1S1/ C001SC34/ (0.5-3 ft)	S1S1/ C001SC35/ (3-7 ft)	S1S2/ C001SC36/ (0.5-2.5 ft)	S1S2/ C001SC37/ (2.5-7 ft)	S1S2/ C001SC38/ (0.5-2.5 ft)	S1S3/ C001SC39/ (0.5-3.5 ft)	S1S3/ C001SC40/ (3.5-7 ft)	S1S4/ C001SC47/ (0.5-3 ft)	S1S4/ C001SC48/ (3-7 ft)	S1S5/ C001SC43/ (0.5-2.3 ft)	S1S5/ C001SC44/ (2.3-7 ft)
Clay[a]	49.3	2.41	35.1	5.08	37	7.31	19	54.9	4.62	26	7.44
Silt[b]	40.8	2.44	23.7	5.69	23.5	7.35	12.5	32.9	4.34	24.5	41.6
Very fine sand[c]	4.18	1.67	4.72	3.64	6.32	22.2	25.2	5.54	1.69	12.9	35.9
Fine sand[d]	2.34	9.84	6.17	11.7	7.66	34.7	31.2	3.61	5.8	14.7	6.99
Medium sand[e]	1.02	39.4	9.76	24.4	10.3	22.8	11.4	1.16	12.4	9.75	3.36
Coarse sand[f]	0.62	32.8	10.4	26.5	8.99	3.9	1.38	0.55	23.1	6.94	2.29
Very coarse sand[g]	0.35	7.47	7.49	20	4.6	0.38	0.21	0.36	24.8	3.34	0.85
Gravel[h]	0.2	2.37	0.74	3.12	0.81	0.85	0	0	21.8	0.55	0.02
Total organic carbon	0.95	0.05	0.5	0.17	0.46	0.3	0.36	0.72	0.16	0.57	0.1

Analyte	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/SAMPLE DEPTH									
	S1S6/ C001SC45/ (0.5-2.4 ft)	S1S6/ C001SC46/ (2.4-7 ft)	S1S7/ C001SC49/ (0.5-4 ft)	S1S7/ C001SC50/ (4-7 ft)	S1S8/ C001SC51/ (0.5-3.8 ft)	S1S8/ C001SC52/ (3.8-6.8 ft)	S1S9/ C001SC53/ (0.5-3.8 ft)	S1S9/ C001SC54/ (3.8-6.5 ft)	S1S10/ C001SC55/ (0.5-3 ft)	S1S10/ C001SC56/ (3-7 ft)
Clay	33.3	1.33	25.2	3.76	57	6.44	42.9	3.43	49.7	5.24
Silt	21.2	1.77	26.5	4.67	38.4	11.1	33.6	7.22	34.3	6.89
Very fine sand	10.6	1.23	17.3	7.97	2.35	5.01	10.6	11.4	8.95	20.9
Fine sand	16.7	4.94	16.1	29.7	1.93	11.3	9.08	32.9	5.02	54.2
Medium sand	9.62	20.3	9.51	28.2	2.18	22.1	3.29	41.1	0.91	10.1
Coarse sand	6.52	44	4.71	15.3	0.82	21.6	0.54	3.56	0.45	2.56
Very coarse sand	3.56	20.4	0.75	6.3	0.13	13.3	0.15	0.38	0.11	0.53
Gravel	1.07	5.79	0	1.78	0.12	9.61	0.05	0.53	0.05	0.07
Total organic carbon	0.02 J	0.94	0.51	0.03 J	1.18	0.05	0.44	0.07	0.85	0.06

(table continues)

Table 5-2 (continued)

Analyte	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/SAMPLE DEPTH									
	S2S1/ C001SC16/ (0.5-4 ft)	S2S1/ C001SC17/ (4-7 ft)	S2S2/ C001SC26/ (0.5-4 ft)	S2S2/ C001SC27/ (4-7 ft)	S2S3/ C001SC57/ (0.5-3.8 ft)	S2S3/ C001SC58/ (3.8-7 ft)	S2S4/ C001SC59/ (0.5-3.5 ft)	S2S4/ C001SC60/ (3.5-7 ft)	S2S5/ C001SC61/ (0.5-3 ft)	S2S5/ C001SC62/ (3-7 ft)
Clay	58.1	20.9	43.3	6.72	36.7	6.85	29.4	1.9	60.6	77.5
Silt	35.9	32.9	40.3	15.1	39.2	7.06	23.1	1.89	32.1	23.1
Very fine sand	2.91	13.9	9.82	7.26	10.8	5.62	17.2	2.49	4.28	0.27
Fine sand	2.18	22	5.38	15.8	9.67	33.5	24.4	30	4.07	0.15
Medium sand	0.55	7.68	1.92	18.1	2.15	29.8	4.35	32.4	1.15	0.09
Coarse sand	0.13	2.52	0.99	19.5	0.37	16.9	1.84	25.4	0.27	0.08
Very coarse sand	0.08	0.45	0.32	11.4	0.07	1.1	0.62	4.01	0.11	0
Gravel	0	0.27	0.22	4.25	0	0	0.14	0.32	1.7	0
Total organic carbon	0.77	0.43	0.6	0.07 U	0.57	0.13	0.33	0.03 J	0.64	0.77

Analyte	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/SAMPLE DEPTH									
	S2S6/ C001SC63/ (0.5-3 ft)	S2S6/ C001SC64/ (3-7 ft)	S2S7/ C001SC65/ (0.5-3 ft)	S2S7/ C001SC66/ (3-7 ft)	S2S8/ C001SC32/ (0.5-5.5 ft)	S2S8/ C001SC33/ (5.5- 7 ft)	S2S9/ C001SC30/ (0.5-3 ft)	S2S9/ C001SC31/ (3-7 ft)	S2S10/ C001SC28/ (0.5-3 ft)	S2S10/ C001SC29/ (3-7 ft)
Clay	30.8	2.62	19.9	52	51.7	2.85	23.7	18.7	50.4	17
Silt	29.7	9.37	27.3	31.1	38.7	2.92	24.9	16.9	38.2	18.9
Very fine sand	19.7	5.19	28.1	12	4.9	2.83	31.3	29	6.3	11
Fine sand	14.3	50.6	12.3	4.22	2.86	13.2	15.3	32.6	2.98	8.53
Medium sand	2.64	26.6	3.12	0.62	0.57	36	2.12	2.86	1.01	14.7
Coarse sand	0.76	9.31	1.35	0.13	0.16	27.8	0.87	0.49	0.64	18.4
Very coarse sand	0.62	1.29	0.52	0.04	0.19	5.26	0.2	0.1	0.07	9.1
Gravel	0.17	1.43	0	0	0	5.36	0	0	0	3.12
Total organic carbon	0.43	0.03 J	0.69	0.62	1.01	0.41	0.69	0.24	0.46	0.2

(table continues)

Table 5-2 (continued)

Analyte	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/SAMPLE DEPTH									
	S2S11/ C001SC24/ (0.5-3.5 ft)	S2S11/ C001SC25/ (3.5-7 ft)	S2S12/ C001SC22/ (0.5-3.5 ft)	S2S12/ C001SC23/ (3-7 ft)	S2S13/ C001SC20/ (0.5-3.5 ft)	S2S13/ C001SC21/ (3.5-7 ft)	S2S14/ C001SC18/ (0.5-4 ft)	S2S14/ C001SC19/ (4-7 ft)	S2S15/ C001SC14/ (0.5-3 ft)	S2S15/ C001SC15/ (3-7 ft)
Clay	10.7	54.6	14	36	10.8	15.8	50	10.2	43.3	6.76
Silt	15.6	39.3	21.3	35.6	19.8	25.7	30.9	13.4	40.3	21.3
Very fine sand	43	4.31	25.1	19.4	36.1	25.9	8.56	10.3	6.95	28.4
Fine sand	27.1	2.31	24.4	7.63	27.7	23.4	5.25	14	7.01	38
Medium sand	2.43	0.29	6.84	1.27	4.28	3.94	3.37	16.7	1.11	3.12
Coarse sand	0.39	0.1	2.19	0.49	0.55	0.39	1.92	18.2	0.36	0.79
Very coarse sand	0.2	0.05	1.26	0.21	0.14	0.12	0.71	7.89	0.15	0.21
Gravel	0.22	0	3.89	0	0.15	0.23	0.12	7.98	0	0.63
Total organic carbon	0.25	0.5	0.56	0.43	0.38	0.45	0.91	0.47	0.73	0.18

Analyte	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/SAMPLE DEPTH			STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER/SAMPLE DEPTH						
	S2S16/ C001SC11/ (0.5-3 ft)	S2S16/ C001SC12/ (3-7 ft)	S2S16/ C001SC13/ (3-7 ft)	S3S1/ C001SC07/ (0.5-2.5 ft)	S3S1/ C001SC08/ (2.5-7 ft)	S3S2/ C001SC05/ (0.5-4 ft)	S3S2/ C001SC06/ (4-7 ft)	S3S3/ C001SC09/ (0.5-4 ft)	S3S3/ C001SC10/ (4-7 ft)	S3S4/ C001SC03/ (0.5-3 ft)
Clay	20.7	10.8	14.9	16.1	3.15	7.3	12	2.92	2.81	20.3
Silt	19	16.3	27.4	25.5	4.61	14.4	11.5	4.55	3.52	30.3
Very fine sand	20.4	20.1	17.7	21.9	13.5	21.7	14.6	19.5	5.16	34.2
Fine sand	37.4	26.8	19.4	26.2	24.9	30.6	32.5	64.4	11	13.1
Medium sand	2.84	13.2	12.6	4.5	27.2	9.94	22.8	5.57	11.3	0.99
Coarse sand	0.45	7.16	6.76	3.17	21.6	5.62	4.41	0.6	31.7	0.28
Very coarse sand	0.09	3.13	2.1	1.42	3.8	3.07	1.52	0.14	23.8	0.11
Gravel	0.06	1.71	0.47	0.14	0.51	5.27	0.32	0.18	10.7	0.4
Total organic carbon	0.26	0.06	0.07	0.08	0.06	0.24	0.11	0.16	0.04 J	0.38

(table continues)

Table 5-2 (continued)

Analyte	STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER/SAMPLE DEPTH		
	S3S4/ C001SC04/ (3-7 ft)	S3S5/ C001SC01/ (0.5-3 ft)	S3S5/ C001SC02/ (3-8 ft)
Clay	5.18	14.4	3.22
Silt	8.04	25.8	3.17
Very fine sand	11	27.8	15.1
Fine sand	32.8	22.7	69.1
Medium sand	28.2	4.95	6.45
Coarse sand	9.86	2.27	1.23
Very coarse sand	3.17	1	0.51
Gravel	0.4	1.03	0.18
Total organic carbon	0.03 J	0.3	0.02

Notes:
- [a] clay: 0.0025 to 0.004 mm
- [b] silt: 0.004 to 0.062 mm
- [c] very fine sand: 0.062 to 0.125 mm
- [d] fine sand: 0.125 to 0.250 mm
- [e] medium sand: 0.250 to 0.500 mm
- [f] coarse sand: 0.500 to 1 mm
- [g] very coarse sand: 1 to 2 mm
- [h] gravel: > 2 mm

Acronyms/Abbreviations:
- ft – foot
- mm – millimeter

Review Qualifiers:
- J – estimated value
- U – compound not detected at or about the sample quantitation limit

Table 5-3
Results of Metals Analyses of Surface Sediment
(results reported in milligrams per kilogram)

Analyte	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER											STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER				
			S1S1/ C001SS03	S1S1/ C001SS32	S1S2/ C001SS01	S1S2/ C001SS34	S1S3/ C001SS02	S1S4/ C001SS19	S1S5/ C001SS20	S1S6/ C001SS18	S1S7/ C001SS04	S1S8/ C001SS13	S1S9/ C001SS14	S1S10/ C001SS05	S2S1/ C001SS06	S2S2/ C001SS12	S2S3/ C001SS08	S2S3/ C001SS33	S2S4/ C001SS07
Aluminum	NP	NP	34,500	28,200	29,800	24,700	8,760	33,900	25,700	29,400	29,400	32,700	31,000	16,700	11,200	24,600	23,900	21,600	23,100
Antimony	2	25	0.1 J	0.12 J	0.14 J	0.09 J	0.04 J	0.16 J	0.14 J	0.12 J	0.09 J	0.13 J	0.1 J	0.09 J	R	0.14 J	0.13 J	0.12 J	0.17 J
Arsenic	8.2	70	11	12	10	10	3	20	8	12	10	13	11	9	5	8	8	8	9
Barium	NP	NP	130	132	132	131	38.2	251	124	138	114	134	127	102	80	111	96.4	94.9	102
Beryllium	NP	NP	0.7	0.8	0.7	0.7	0.2	1.3	0.5	0.8	0.6	0.8	0.7	0.5	0.3	0.6	0.55	0.5	0.5
Cadmium	1.2	9.6	0.7	0.6	0.7	0.8	0.4	1.6	0.7	0.8	1.1	0.8	0.5	0.5	0.3	0.1	0.29	0.3	0.2
Chromium	81	370	82	85	76	75	20	145	50	86	70	87	82	63	37	69	61.7	63	67
Cobalt	NP	NP	11.5	11.7	10.5	10.3	3.4	20.8	8.3	11.7	9.9	12	10.6	8.9	6	9.6	7.85	8.1	9
Copper	34	270	154	164	106	103	40	281	91.6	156	185	174	126	122	75.4	110	84.2	91.2	107
Iron	NP	NP	42,800	39,000	37,800	34,600	12,000	43,200	31,700	40,700	37,500	45,000	39,400	25,300	17,400	34,000	31,400	29,000	32,900
Lead	46.7	218	172	175	153	148	49.8	391	129	190	165	190	148	122	38.8	68	91.7	87.5	99.4
Manganese	NP	NP	281	266	258	248	77	281	219	279	241	294	270	194	138	247	218	202	239
Mercury	0.15	0.71	0.6	0.6	0.6	0.6	0.1	0.6	0.4	0.6	0.6	0.6	0.7	0.5	0.3	0.7	0.6	0.6	0.6
Nickel	20.9	51.6	19	20	17	17	5	34	12	20	17	20	18	15	9	15	13	13	14
Selenium	NP	NP	4 U	4 U	4 U	4 U	4 U	3	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U	2 U	4 U	4 U
Silver	1	3.7	1.94	1.99	1.96	1.88	0.51	2.14	1.17	2.19	2.03	2.26	2.34	1.61	0.75	1.25	1.89	1.74	1.77
Thallium	NP	NP	0.8	0.8	0.8	0.7	0.2	1.5	0.5	0.8	0.7	0.8	0.7	0.5	0.4	0.4	0.46	0.4	0.4
Vanadium	NP	NP	94	97	86	84	27	167	66	96	77	100	88	69	46	76	65.3	65	71
Zinc	150	410	330	337	261	249	98	530	233	335	333	346	273	269	150	220	185	201	230

(table continues)

Table 5-3 (continued)

Analyte	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER													STRATUM 3, REFERENCE AREAS SAMPLING LOCATION/SAMPLE NUMBER				
			S2S5/ C001SS09	S2S6/ C001SS15	S2S7/ C001SS16	S2S8/ C001SS17	S2S9/ C001SS10	S2S10/ C001SS21	S2S11/ C001SS26	S2S12/ C001SS22	S2S12/ C001SS35	S2S13/ C001SS23	S2S14/ C001SS11	S2S15/ C001SS24	S2S16/ C001SS25	S3S1/ C001SS30	S3S2/ C001SS29	S3S3/ C001SS31	S3S4/ C001SS27	S3S5/ C001SS28
Aluminum	NP	NP	10,500	24,000	13,400	22,500	13,200	23,200	15,500	25,400	23,400	20,300	22,800	18,200	12,700	9,510	9,750	9,060	15,000	14,400
Antimony	2	25	0.12 J	0.06 J	R	0.05 J	0.08 UJ	0.09 UJ	0.1 J	0.11 J	0.11 J	0.08 UJ	0.12 J	0.09 UJ	0.07 UJ	0.06 J	0.06 J	0.05 J	0.09 J	0.08 J
Arsenic	8.2	70	5	9	5	8	6	9	6	9	9	8	8	7	5	4	3	3	6	6
Barium	NP	NP	54.2	108	57.8	98.2	62	110	94.7	119	116	105	102	91.3	76.5	53.9	42.6	57.8	70.8	71.9
Beryllium	NP	NP	0.3	0.5	0.3	0.4	0.3	0.6	0.33	0.6	0.6	0.5	0.5	0.4	0.3	0.21	0.2	0.2	0.29	0.32
Cadmium	1.2	9.6	0.2	0.2	0.3	0.2	0.2	0.2	0.13	0.2	0.2	0.2	0.3	0.3	0.3	0.08	0.1	0.06	0.21	0.22
Chromium	81	370	31	64	33	57	41	66.3	44	69	69	56	61	49	38	21.3	20.2	20.1	28.9	29.8
Cobalt	NP	NP	5	8.8	5	8.1	5.5	9.4	7.04	9.8	9.7	8.2	8.8	7.2	6	3.91	3.75	4.2	5.33	5.6
Copper	34	270	53.8	93	57	84.1	70	99.7	74.6	112	111	104	104	100	80.8	46.6	47.6	40.2	58	60.6
Iron	NP	NP	15,100	32,000	17,300	30,500	18,700	32,800	24,900	35,900	33,900	30,500	32,000	27,000	20,200	15,200	14,500	16,600	21,900	22,100
Lead	46.7	218	42.8	77.5	42.8	65.7	47.6	62.8	47.3	67.2	64.4	58.2	54.7	54.8	42.7	19.9	18.2	16.1	23.6	24.8
Manganese	NP	NP	118	232	124	224	137	250	204	268	255	239	221	206	163	113	106	119	183	189
Mercury	0.15	0.71	0.2	0.6	0.3	0.5	0.4	0.7	0.4	0.7	0.7	0.6	0.6	0.6	0.4	0.2	0.2	0.2	0.2	0.2
Nickel	20.9	51.6	7	14	7	12	9	14	9.1	15	15	12	15	11	9	5.6	5.4	5.3	8.8	9.2
Selenium	NP	NP	4 U	4 U	4 U	4 U	4 U	4 U	2 U	4 U	4 U	4 U	4 U	4 U	4 U	2 U	2 U	2 U	2 U	2 U
Silver	1	3.7	0.68	1.55	0.89	1.37	0.86	1.16	0.79	1.33	1.28	1.12	1.21	1.12	0.92	0.31	0.32	0.35	0.46	0.48
Thallium	NP	NP	0.2	0.6	0.3	0.5	0.3	0.4	0.41	0.5	0.5	0.4	0.4	0.4	0.3	0.2	0.18	0.22	0.32	0.34
Vanadium	NP	NP	36	71	40	61	46	74	50.4	77	76	64	70	56	45	30.4	27.4	33.6	38.9	41
Zinc	150	410	120	202	126	182	150	205	172	222	217	201	207	188	157	87	86	78	128	131

Notes:
[a] shading indicates value exceeds ERL
[b] outline indicates value exceeds ERM

Acronyms/Abbreviations:
ERL – effects-range low
ERM – effects-range median
NP – not published

Review Qualifiers:
J – estimated value
R – data rejected during data validation process due to low matrix spike recovery
U – compound not detected at or above the sample quantitation limit
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value

Table 5-4
Results of Organotin Analyses of Surface Sediment
(results reported in micrograms per kilogram)

Analyte	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER												STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER					
	S1S1/ C001SS03	S1S1/ C001SS32	S1S2/ C001SS01	S1S2/ C001SS34	S1S3/ C001SS02	S1S4/ C001SS19	S1S5/ C001SS20	S1S6/ C001SS18	S1S7/ C001SS04	S1S8/ C001SS13	S1S9/ C001SS14	S1S10/ C001SS05	S2S1/ C001SS06	S2S2/ C001SS12	S2S3/ C001SS08	S2S3 C001SS33	S2S4 C001SS07	S2S5 C001SS09
Dibutyltin	112	45	59	64	39	216	76	195	207	221	120	64	17	38	59	61	66	28
Tetrabutyltin	3 U	5 U	3 U	3 U	3 U	15 U	15 U	15 U	2 J	15 U	15 U	3 U	3 U	15 U	15 U	15 U	15 U	15 U
Tributyltin	55	47	23	24	10	101	18	93	195	92	43	27	8	19	25	28	31	11

Analyte	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER												STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER				
	S2S6/ C001SS15	S2S7/ C001SS16	S2S8/ C001SS17	S2S9/ C001SS10	S2S10/ C001SS21	S2S11/ C001SS26	S2S12/ C001SS22	S2S12/ C001SS35	S2S13/ C001SS23	S2S14/ C001SS11	S2S15/ C001SS24	S2S16/ C001SS25	S3S1/ C001SS30	S3S2/ C001SS29	S3S3/ C001SS31	S3S4/ C001SS27	S3S5/ C001SS28
Dibutyltin	49	35	29	25	47	33	47	51	37	34	42	34	15	14	5	8	10
Tetrabutyltin	15 U	15 U	15 U	15 U	3 U	3 U	3 U	3 U	3 U	15 U	3 U	3 U	3 U	0.7 J	3 U	1 J	0.8 J
Tributyltin	27	11	18	12	23	13	24	25	19	19	18	12	12	12	8	10	13

Review Qualifiers:
J – estimated value
U – compound not detected at or above the sample quantitation limit

Table 5-5
Results of Sulfide Analyses of Surface Sediment
(results reported in milligrams per kilogram as dry weight)

Station	Sample ID	Sulfide
Stratum 1, Upper Boat Channel		
S1S1	C001SS03	1,790
S1S1	C001SS32	2.7
S1S2	C001SS01	5.4
S1S2	C001SS34	311
S1S3	C001SS02	795
S1S4	C001SS19	423
S1S5	C001SS20	35.7
S1S6	C001SS18	208
S1S7	C001SS04	2,420
S1S8	C001SS13	1,660 J
S1S9	C001SS14	52.5 J
S1S10	C001SS05	387
Stratum 2, Lower Boat Channel		
S2S1	C001SS06	5.5
S2S2	C001SS12	13.4 J
S2S3	C001SS08	60.7 J
S2S3	C001SS33	1.8 J
S2S4	C001SS07	33.2 J
S2S5	C001SS09	18.7 J
S2S6	C001SS15	19 J
S2S7	C001SS16	61.9 J
S2S8	C001SS17	10 J
S2S9	C001SS10	9.8 J
S2S10	C001SS21	31 J
S2S11	C001SS26	13.4 J
S2S12	C001SS22	8.5 J
S2S12	C001SS35	14 J
S2S13	C001SS23	32 J
S2S14	C001SS11	9.7 J
S2S15	C001SS24	21 J
S2S16	C001SS25	49.9 J
Stratum 3, Reference Area		
S3S1	C001SS30	14. 7 J
S3S2	C001SS29	20 J
S3S3	C001SS31	9.7 J

(table continues)

Table 5-6
Results of PCB Analyses of Surface Sediment
(results reported in micrograms per kilogram)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER						
				S1S1/ C01SS03	S1S1/ C01SS32	S1S2/ C01SS01	S1S2/ C001SS34	S1S3/ C01SS02	S1S4/ C01SS19	S1S5/ C01SS20
PCB-8 (2,4')[a]	0.4	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.6 U	0.6 U
PCB-18 (2,2',5)[a]	0.2	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U
PCB-28 (2,4,4')[a]	0.09	NP	NP	0.3 J	0.2 J	0.3 J	0.7	0.2 J	0.7	0.5 J
PCB-44 (2,2',3,5')[a]	0.07	NP	NP	0.4	0.5 J	0.6	0.5 J	0.2 J	0.8	0.7
PCB-52 (2,2',5,5')[a]	0.07	NP	NP	1.1	0.9	1	0.8	0.2 J	1.4 U	1.3
PCB-60	0.3	NP	NP	1.7	2.4 J	1.6	2 U	0.5	2.9 U	2.6
PCB-66 (2,3',4,4')[a]	0.09	NP	NP	3.1	2.3	2.5	2.1	0.9	4.2	3.7
PCB-77 (3,3',4,4')	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.9 UJ	0.5 UJ
PCB-81	0.06	NP	NP	0.5 U	0.5 U	0.5 U	2 U	0.5 U	0.1 J	0.5 U
PCB-87	0.07	NP	NP	1.4	0.9	1.3	1.1 U	0.5 J	1.4	1
PCB-90	0.2	NP	NP	0.3 J	0.3 J	0.3 J	0.3	0.2 J	0.2 J	0.2 J
PCB-101 (2,2',4,5,5')[a]	0.2	NP	NP	2.8	2	2.6	2.2	0.9	3.7	3.3
PCB-105 (2,3,3',4,4')[a]	0.4	NP	NP	1.2	0.8	1	0.4 J	0.4 J	1.5	1.3
PCB-114	0.1	NP	NP	0.2 J	0.4 J	0.4 J	0.5 U	0.5 U	1 U	0.5 J
PCB-118 (2,3',4,4',5)[a]	0.07	NP	NP	2.7	1.9	2.2	1.9	0.8	3.3	3.1
PCB-123	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.7 U	0.6 U
PCB-126 (3,3',4,4',5)	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ
PCB-128 (2,2',3,3',4,4')[a]	0.2	NP	NP	0.8	0.6	0.6	0.6	0.2 J	1.2	1
PCB-138 (2,2',3,4,4',5')[a]	0.3	NP	NP	5.2	4.1	4.2	3.7	1.5	8.9	6.2
PCB-153 (2,2',4,4',5,5')[a]	0.2	NP	NP	3.8	2.9	3.2	2.7	1.2 J	4.9	5
PCB-156	0.09	NP	NP	0.4 J	0.3 J	0.4 J	0.3 J	0.5 U	0.5	0.5 J
PCB-157	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.1 J
PCB-158	0.07	NP	NP	0.4 J	0.3 J	0.3 J	0.3 J	0.1 J	0.6	0.5
PCB-166	0.1	NP	NP	0.1 J	0.5 U	0.1 J	0.1 J	0.5 UJ	0.2 J	0.2 J
PCB-167	0.2	NP	NP	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.3 J

(table continues)

Table 5-6 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER						
				S1S1/ C01SS03	S1S1/ C01SS32	S1S2/ C01SS01	S1S2/ C001SS34	S1S3/ C01SS02	S1S4/ C01SS19	S1S5/ C01SS20
PCB-169	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U
PCB-170 (2,2',3,3',4,4',5)[a]	0.3	NP	NP	1.3	1	1.1	0.8	0.5 U	1.3	1.2
PCB-180 (2,2',3,4,4',5,5')[a]	0.3	NP	NP	1.8	1.3	1.8	1.3	0.5	2.2	2.5
PCB-183	0.08	NP	NP	0.6	.3 J	0.5	0.4 J	0.2 J	0.6	0.8
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U
PCB-187 (2,2',3,4',5,5',6)[a]	0.2	NP	NP	1.8	1.2	1.4	1.2	0.5	2	2.1
PCB-189	0.08	NP	NP	0.2 J	0.1 J	0.2 J	0.2 J	0.5 U	0.2 J	0.3 J
PCB-195 (2,2',3,3',4,4',5,6)[a]	0.07	NP	NP	0.5 UJ	0.5 UJ	0.2 J	0.5 UJ	0.5 UJ	0.5 U	0.5 U
PCB-206 (2,2',3,3',4,4',5,5',6)[a]	0.07	NP	NP	0.4 J	0.3 J	0.3 J	0.5 U	0.1 J	0.9	1.1
PCB-209[a] (Decachlorobiphenyl)	0.08	NP	NP	0.7	0.5 J	0.7	0.6	0.1 J	0.8 J	0.8 J
Total PCBs[b]	NA	22.7	180	55.47[c]	41.67	48	39.74	16.37	73.54	68.27

(table continues)

Table 5-6 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER					STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER	
				S1S6/ C01SS18	S1S7/ C001SS04	S1S8/ C001SS13	S1S9/ C001SS14	S1S10/ C001SS05	S2S1/ C001SS06	S2S2/ C001SS12
PCB-169	0.09	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U
PCB-170 (2,2',3,3',4,4',5)[a]	0.3	NP	NP	1.6 U	0.7 J	1.2	2.2 U	1.6	0.7 U	1.5
PCB-180 (2,2',3,4,4',5,5')[a]	0.3	NP	NP	2.5	1.4 J	2.5	3.3	2.5	0.8	2
PCB-183	0.08	NP	NP	0.8 J	0.4 J	0.5	1	0.8	0.3 J	0.6
PCB-184	0.08	NP	NP	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2',3,4',5,5',6)[a]	0.2	NP	NP	2.2	1 J	2	2.7	2.2	0.9	1.8
PCB-189	0.08	NP	NP	0.2 J	0.5 UJ	0.3 J	0.3 J	0.5 U	0.5 U	0.5 U
PCB-195 (2,2',3,3',4,4',5,6)[a]	0.07	NP	NP	0.3 J	0.1 J	0.3 J	0.4 J	0.2 J	0.5 UJ	0.5 UJ
PCB-206 (2,2',3,3',4,4',5,5',6)[a]	0.07	NP	NP	0.6	0.3 J	0.7	0.9	0.5 J	0.2 J	0.8
PCB-209[a] (Decachlorobiphenyl)	0.08	NP	NP	0.9	0.4 J	0.8	1.4	0.7	0.3 J	1
Total PCBs	NA	22.7	180	71.1	39	75.2	90.5	82.09	26.97	56.27

(table continues)

Table 5-6 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER					STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER	
				S1S6/ C01SS18	S1S7/ C001SS04	S1S8/ C001SS13	S1S9/ C001SS14	S1S10/ C001SS05	S2S1/ C001SS06	S2S2/ C001SS12
PCB-8 (2,4')[a]	0.4	NP	NP	0.5 UJ	0.3 J	0.8	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
PCB-18 (2,2',5)[a]	0.2	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
PCB-28 (2,4,4')[a]	0.09	NP	NP	0.4 J	0.3 J	0.7 J	0.5	0.5 U	0.2 J	0.3 J
PCB-44 (2,2',3,5')[a]	0.07	NP	NP	1.1	0.6 J	0.9	1.1	1.4	0.3 J	0.4 J
PCB-52 (2,2',5,5')[a]	0.07	NP	NP	1.5	0.8 J	1.5	1.9	2.3	0.4 J	0.8
PCB-60	0.3	NP	NP	2.3 U	1.2 UJ	3 J	0.5 U	2.5 U	0.9	1.1
PCB-66 (2,3',4,4')[a]	0.09	NP	NP	4.1	2.1 J	4.5 J	5.4	5.1	1.4	2.6
PCB-77 (3,3',4,4')	0.3	NP	NP	0.5 U	0.5 UJ	1.2 UJ	0.5 U	0.5 U	0.5 U	0.5 U
PCB-81	0.06	NP	NP	0.5 UJ	0.5 UJ	0.5 U	3 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	1.9 J	1 J	1.3	2.7 U	2.3	0.6 U	1.3
PCB-90	0.2	NP	NP	0.4 J	0.3 J	0.5 U	0.5 U	0.4 J	0.2 J	0.3 J
PCB-101 (2,2',4,5,5')[a]	0.2	NP	NP	3.6	2 J	3	4.6	4.4	1.3	2.4
PCB-105 (2,3,3',4,4')[a]	0.4	NP	NP	1.5	0.8 J	1.6 J	0.8	1.7	0.6	1.1
PCB-114	0.1	NP	NP	1.1 J	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-118 (2,3',4,4',5)[a]	0.07	NP	NP	3.6	1.9 J	3.9	4.7	3.9	1.3	2.6
PCB-123	0.07	NP	NP	0.6 UJ	0.5 UJ	0.7 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-126 (3,3',4,4',5)	0.2	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
PCB-128 (2,2',3,3',4,4')[a]	0.2	NP	NP	1.1	0.5 J	1	1.3	1.2	0.4 J	0.8
PCB-138 (2,2',3,4,4',5')[a]	0.3	NP	NP	6.7 J	3.6 J	6.9	9.2	7.7	2.8	5.5
PCB-153 (2,2',4,4',5,5')[a]	0.2	NP	NP	5	2.6 J	5.2	6.6	5.3 J	2.1 J	4.2
PCB-156	0.09	NP	NP	0.4 J	0.2 J	0.5 J	0.5	0.5 J	0.1 J	0.4
PCB-157	0.07	NP	NP	0.5 J	0.5 UJ	0.5 U	0.7	0.5 U	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.5	0.3 J	0.6	0.7	0.7	0.2 J	0.4 J
PCB-166	0.1	NP	NP	0.2 J	0.5 UJ	0.2 J	0.1 J	0.2 J	0.5 UJ	0.5 U
PCB-167	0.2	NP	NP	0.3 J	0.5 UJ	0.3 J	0.3 J	0.4 J	0.5 U	0.5 U

(table continues)

Table 5-6 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER S2S3/ C001SS08	S2S3/ C001SS33	S2S4/ C001SS07	S2S5/ C001SS09	S2S6/ C001SS15	S2S7/ C001SS16	S2S8/ C001SS17
PCB-8 (2,4')[a]	0.4	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
PCB-18 (2,2',5)[a]	0.2	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
PCB-28 (2,4,4')[a]	0.09	NP	NP	0.5 J	0.5	0.5 U	0.2 J	0.5 UJ	0.3 J	0.4 J
PCB-44 (2,2',3,5')[a]	0.07	NP	NP	0.8	0.8	1	0.2 J	0.3 J	0.1 J	0.5 J
PCB-52 (2,2',5,5')[a]	0.07	NP	NP	1.5	1.3	1.8	0.5 U	0.9	0.4 J	0.9
PCB-60	0.3	NP	NP	0.5 U	2.3	4.1	0.8	1.8 J	1 J	1.8 J
PCB-66 (2,3',4,4')[a]	0.09	NP	NP	4.2	3.8	5	1.5	2.9 J	1.4 J	2.8 J
PCB-77 (3,3',4,4')	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
PCB-81	0.06	NP	NP	3 U	0.5 U	3 U	0.7 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	1.4	1.4	2	0.4	0.8	0.4 J	0.8
PCB-90	0.2	NP	NP	0.3 J	0.3 J	0.4 J	0.1	0.5 U	0.5 U	0.5 U
PCB-101 (2,2',4,5,5')[a]	0.2	NP	NP	3.7	3.4	4.6	1.2	2.3	0.8	2.1
PCB-105 (2,3,3',4,4')[a]	0.4	NP	NP	0.5 J	1.5	0.6	0.4 J	1.1 J	0.7 J	1.2 J
PCB-114	0.1	NP	NP	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U
PCB-118 (2,3',4,4',5)[a]	0.07	NP	NP	3.7	3.4	0.5 U	1.2	2.8	1.3	2.7
PCB-123	0.07	NP	NP	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-126 (3,3',4,4',5)	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
PCB-128 (2,2',3,3',4,4')[a]	0.2	NP	NP	0.5 U	1	1.4	0.4 J	0.8	0.4 J	0.8
PCB-138 (2,2',3,4,4',5')[a]	0.3	NP	NP	7.5	6.8	9.5	2.5	5	2.5	4.9
PCB-153 (2,2',4,4',5,5')[a]	0.2	NP	NP	5.4	4.9	6.6	1.9	3.9	2	3.8
PCB-156	0.09	NP	NP	0.6 U	0.5 J	0.7	0.2 J	0.4 J	0.2 J	0.4 J
PCB-157	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.5	0.5	0.7	0.2 J	0.4 J	0.2 J	0.4 J
PCB-166	0.1	NP	NP	0.2 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-167	0.2	NP	NP	0.2 J	0.3 J	0.5	0.5 U	0.3 J	0.5 U	0.2 J

(table continues)

Table 5-6 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER						
				S2S3/ C001SS08	S2S3/ C001SS33	S2S4/ C001SS07	S2S5/ C001SS09	S2S6/ C001SS15	S2S7/ C001SS16	S2S8/ C001SS17
PCB-169	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
PCB-170 (2,2',3,3',4,4',5)[a]	0.3	NP	NP	1.9	1.7	2.2	0.6	0.9	0.4 J	0.9
PCB-180 (2,2',3,4,4',5,5')[a]	0.3	NP	NP	0.5 U	2.6	0.5 U	0.7	1.7	0.8	1.6
PCB-183	0.08	NP	NP	0.5 U	0.8	1.1	0.2 J	0.3 J	0.5 U	0.3 J
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.09 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2',3,4',5,5',6)[a]	0.2	NP	NP	2.4	2.4	2.7	0.8	1.6	0.8	1.6
PCB-189	0.08	NP	NP	0.5 J	0.5 U	0.5 U	0.1 J	0.2 J	0.5 U	0.5 U
PCB-195 (2,2',3,3',4,4',5,6)[a]	0.07	NP	NP	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J
PCB-206 (2,2',3,3',4,4',5,5',6)[a]	0.07	NP	NP	1	0.6	1.1	0.2 J	0.9	0.4 J	0.9
PCB-209[a] (Decachlorobiphenyl)	0.08	NP	NP	1.4	0.9	1.5	0.3 J	0.7	0.5 U	0.7
Total PCBs	NA	22.7	180	70.17	72.8	77.13	24.94	52.36	25.35	52.8

(table continues)

Table 5-6 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER						
				S2S9/ C001SS10	S2S10/ C001SS21	S2S11/ C001SS26	S2S12/ C001SS22	S2S12/ C001SS35	S2S13/ C001SS23	S2S14/ C001SS11
PCB-8 (2,4')[a]	0.4	NP	NP	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ
PCB-18 (2,2',5)[a]	0.2	NP	NP	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ
PCB-28 (2,4,4')[a]	0.09	NP	NP	0.2 J	0.3 J	0.3 J	0.6	0.2 J	0.2 J	0.3 J
PCB-44 (2,2',3,5')[a]	0.07	NP	NP	0.3 J	0.4 J	0.6 U	0.6	0.6	0.3 J	0.7
PCB-52 (2,2',5,5')[a]	0.07	NP	NP	0.5 J	0.6	0.9	1	0.6	0.4 J	1.2
PCB-60	0.3	NP	NP	0.7	0.5 U	1	0.8 U	0.5 U	1.3	1.6
PCB-66 (2,3',4,4')[a]	0.09	NP	NP	1.6	2.5	2.6	3.7	2.8	1.9	3.6
PCB-77 (3,3',4,4')	0.3	NP	NP	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U
PCB-81	0.06	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	0.6	0.8	1.4	1.1	0.9	0.6	1.7
PCB-90	0.2	NP	NP	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.3 J
PCB-101 (2,2',4,5,5')[a]	0.2	NP	NP	1.4	2.3	2.6	3	2.3	1.9	3.2
PCB-105 (2,3,3',4,4')[a]	0.4	NP	NP	0.6	1	1.1	1.4	1.1	0.7	1.4
PCB-114	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-118 (2,3',4,4',5)[a]	0.07	NP	NP	1.5	2.3	2.6	3.4	2.5	1.7	3.4
PCB-123	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6 U
PCB-126 (3,3',4,4',5)	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-128 (2,2',3,3',4,4')[a]	0.2	NP	NP	0.5 J	0.8	0.8	1.1	0.9	0.6	1
PCB-138 (2,2',3,4,4',5')[a]	0.3	NP	NP	3	4.9	4.9	6.9	5.2	3.7	6.9
PCB-153 (2,2',4,4',5,5')[a]	0.2	NP	NP	2.4	4	3.9	5.7	4.3	3	5.2
PCB-156	0.09	NP	NP	0.2	0.3 J	0.3 J	0.5 J	0.4 J	0.3 J	0.5
PCB-157	0.07	NP	NP	0.5 U	0.1 J	0.3 J	0.2 J	0.1 J	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.2 J	0.4 J	0.4 J	0.5	0.4 J	0.3 J	0.5
PCB-166	0.1	NP	NP	0.5 U	0.5 U	0.1 J	0.1 J	0.1 J	0.5 U	0.1 J
PCB-167	0.2	NP	NP	0.5 U	0.2 J	0.3 J	0.3 J	0.3 J	0.5 U	0.3 J

(table continues)

Table 5-6 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER						
				S2S9/ C001SS10	S2S10/ C001SS21	S2S11/ C001SS26	S2S12/ C001SS22	S2S12/ C001SS35	S2S13/ C001SS23	S2S14/ C001SS11
PCB-169	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-170 (2,2',3,3',4,4',5)[a]	0.3	NP	NP	0.8	1	1.1	1.4	1	0.8	1.8
PCB-180 (2,2',3,4,4',5,5')[a]	0.3	NP	NP	1	1.8	2	2.7	1.9	1.3	2.6
PCB-183	0.08	NP	NP	0.3 J	0.4 J	0.5	0.6	0.5 J	0.2 J	0.8
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2',3,4',5,5',6)[a]	0.2	NP	NP	1	1.8	1.6	2.5	1.9	1.3	2.3
PCB-189	0.08	NP	NP	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.1 J	0.1 J
PCB-195 (2,2',3,3',4,4',5,6)[a]	0.07	NP	NP	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.2 J	0.5 U
PCB-206 (2,2',3,3',4,4',5,5',6)[a]	0.07	NP	NP	0.3 J	0.9	0.6	1.6	0.9 U	0.4 J	1
PCB-209[a] (Decachlorobiphenyl)	0.08	NP	NP	0.4	0.8	0.9	1	0.6	0.3 J	1.1
Total PCBs	NA	22.7	180	31.67	51.47	52.87	73.87	52.54	38	72.07

(table continues)

Table 5-6 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER		STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER				
				S2S15/ C001SS24	S2S16/ C001SS25	S3S1/ C001SS30	S3S2/ C001SS29	S3S3/ C001SS31	S3S4/ C001SS27	S3S5/ C001SS28
PCB-8 (2,4')[a]	0.4	NP	NP	0.6	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ
PCB-18 (2,2',5)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ
PCB-28 (2,4,4')[a]	0.09	NP	NP	0.5 J	0.3 J	0.5 U	0.1 J	0.5 U	0.1 J	0.2 J
PCB-44 (2,2',3,5')[a]	0.07	NP	NP	0.5	0.5 J	0.2 J	0.4 J	0.5 U	0.1 J	0.5 U
PCB-52 (2,2',5,5')[a]	0.07	NP	NP	0.8	0.7	0.3 J	0.6	0.3 J	0.5 U	0.5 J
PCB-60	0.3	NP	NP	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.6	0.5 U
PCB-66 (2,3',4,4')[a]	0.09	NP	NP	2.9	2.4	0.9	1.2	0.9	0.8	1.2
PCB-77 (3,3',4,4')	0.3	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
PCB-81	0.06	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	0.9	0.7	0.8	0.7	0.5 J	0.3 J	1
PCB-90	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U
PCB-101 (2,2',4,5,5')[a]	0.2	NP	NP	2.7	2.2	1	1.4	0.8	0.5	1.2
PCB-105 (2,3,3',4,4')[a]	0.4	NP	NP	1.2	1	0.4 J	0.6	0.4 J	0.3 J	0.5 J
PCB-114	0.1	NP	NP	0.2 J	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-118 (2,3',4,4',5)[a]	0.07	NP	NP	2.5	2.2	0.9	1.2	1	0.7	1.2
PCB-123	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-126 (3,3',4,4',5)	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
PCB-128 (2,2',3,3',4,4')[a]	0.2	NP	NP	0.9	0.8	.3 J	.3 J	.3 J	0.3 J	0.4 J
PCB-138 (2,2',3,4,4',5')[a]	0.3	NP	NP	5.2	4.4	1.8	2.2	2	1.7	2.5
PCB-153 (2,2',4,4',5,5')[a]	0.2	NP	NP	4.4	3.7	1.5	1.7	1.6	1.3	2.1
PCB-156	0.09	NP	NP	0.4 J	.4 J	.1 J	.2 J	.1 J	0.1 J	0.2 J
PCB-157	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.4 J	0.4 J	0.1 J	0.2 J	0.1 J	0.2 J	0.2 J
PCB-166	0.1	NP	NP	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-167	0.2	NP	NP	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

(table continues)

Table 5-6 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER		STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER				
				S2S15/ C001SS24	S2S16/ C001SS25	S3S1/ C001SS30	S3S2/ C001SS29	S3S3/ C001SS31	S3S4/ C001SS27	S3S5/ C001SS28
PCB-169	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-170 (2,2',3,3',4,4',5)[a]	0.3	NP	NP	1.2	0.9	0.5	0.5	0.5 J	0.4 J	0.7
PCB-180 (2,2',3,4,4',5,5')[a]	0.3	NP	NP	2	1.9	0.7	0.8	0.7	0.7	0.9
PCB-183	0.08	NP	NP	0.4 J	0.4 J	0.2 J	0.2 J	0.2 J	0.5 U	0.3 J
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2',3,4',5,5',6)[a]	0.2	NP	NP	1.8	1.8	0.7	0.7	0.7	0.7	1
PCB-189	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-195 (2,2',3,3',4,4',5,6)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-206 (2,2',3,3',4,4',5,5',6)[a]	0.07	NP	NP	0.7	1.4	0.2 J	0.2 J	0.2	0.2 J	0.5 U
PCB-209[a] (Decachlorobiphenyl)	0.08	NP	NP	0.7	0.5 U	0.3 J	0.3 J	0.6	0.5 UJ	0.5
Total PCBs	NA	22.7	180	57.47	59.15	20.16	25.07	20.83	16.42	26.61

Notes:
[a] the 18 NOAA congeners are shown in **boldface**
[b] total PCBs are equal to 2 times the sum of the congeners; nondetects were included at one-half the MDL
[c] shaded cell indicates concentration exceeds ERL

Acronyms/Abbreviations:
ERL – effects-range low
ERM – effects-range median
MDL – method detection limit
NOAA – National Oceanic and Atmospheric Administration
NP – not published
PCB – polychlorinated biphenyl

Review Qualifiers:
J – estimated value
U – compound not detected at or above the sample quantitation limit
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value

Table 5-7
Results of Pesticide Analyses of Surface Sediment
(results reported in micrograms per kilogram)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER												STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER			
				S1S1/ C001SS03	S1S1/ C001SS32	S1S2/ C001SS01	S1S2/ C001SS34	S1S3/ C001SS02	S1S4/ C001SS19	S1S5/ C001SS20	S1S6/ C001SS18	S1S7/ C001SS04	S1S8/ C001SS13	S1S9/ C001SS14	S1S10/ C001SS05	S2S1/ C001SS06	S2S2/ C001SS12	S2S3/ C001SS08	S2S3/ C001SS33
4,4'-DDD	0.2	NP	NP	50 J	64	27	24	17	120 J	34 J	120 J	76	29	52	170	3	6	3	26
4,4'-DDE	0.4	2.2	27	11 J	12	12	8	4	32	17	31	16	13	25	22	2 J	5	2	13
4,4'-DDT	0.2	NP	NP	4 J	7	3	3	2 J	14	100	8	2 J	4	6	82	26	4	1 J	2 U
Total DDTs[c]	NA	1.58	46.1	65	83	42	35	23	166	151	159	94	46	81	274	31	15	6	39.1
alpha-Chlordane	0.4	NP	NP	3 J	3	2	2 J	0.9 J	4 U	3	9	4	3 J	4 J	6	2 U	0.7 J	2 U	2 J
gamma-Chlordane	0.2	NP	NP	4 J	5	4	4	1 J	21	6	17	7	5	9	9	0.5 J	1 J	0.7 J	5
Total chlordane[c]	NA	0.5	6	7	8	6	6	1.9	21.2	9	26	11	8	13	15	0.7	1.7	0.9	7
Aldrin	0.2	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
alpha-BHC	0.2	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 UJ	2 UJ	2 UJ	2 U	2 UJ	0.2 J	2 U	2 U	2 UJ	2 UJ	2 UJ
beta-BHC	0.4	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
delta-BHC	0.4	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 UJ	2 UJ	2 UJ	2 U	2 UJ	2 UJ	2 U	2 U	2 UJ	2 UJ	2 UJ
Dieldrin	0.4	0.02	8	9 UJ	2 UJ	4 UJ	2 UJ	2 UJ	2 U	2 U	2 U	10 UJ	2 U	2 U	14 UJ	2 UJ	2 U	2 U	2 U
Endosulfan I	0.2	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 UJ	2 UJ	2 UJ	2 U	2 UJ	2 UJ	2 U	2 U	2 U	2 U	2 U
Endosulfan II	0.2	NP	NP	2 UJ	2 U	3 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 UJ	4 U	2 U	2 U	2 U	2 U
Endosulfan sulfate	0.4	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 UJ	2 U	2 U	2 U	2 U	2 U
Endrin	0.4	0.02	45	2 UJ	2 U	2 U	2 U	2 U	2 UJ	2 UJ	2 UJ	2 U	2 UJ	2 UJ	2 U	2 U	2 U	2 U	2 U
Endrin aldehyde	0.2	NP	NP	2 UJ	2 U	2 U	2 U	2 U	10 J	6 J	9 J	2 U	5 UJ	9 J	2 U	2 U	6	2	7
Endrin ketone	0.4	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.9 J	0.5 J	2 U	2 U	6
gamma-BHC (lindane)	0.2	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Heptachlor	0.2	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor epoxide	0.4	NP	NP	3 UJ	2 UJ	2 UJ	4 UJ	2 UJ	2 U	2 U	2 U	2 UJ	2 U	2 U	5 UJ	2 UJ	2 U	2 U	2 U
Methoxychlor	1	NP	NP	4 UJ	4 UJ	4 U	4 UJ	4 UJ	4 U	4 U	4 U	4 UJ	4 U	4 U	4 UJ	4 UJ	4 UJ	4 UJ	4 UJ
Toxaphene	5	NP	NP	30 UJ	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 UJ	30 UJ	30 U	30 U	30 U	30 U	30 U

(table continues)

Table 5-7 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER													
				S2S4/ C001SS07	S2S5/ C001SS09	S2S6/ C001SS15	S2S7/ C001SS16	S2S8/ C001SS17	S2S9/ C001SS10	S2S10/ C001SS21	S2S11/ C001SS26	S2S12/ C001SS22	S2S12/ C001SS35	S2S13/ C001SS23	S2S14/ C001SS11	S2S15/ C001SS24	S2S16/ C001SS25
4,4'-DDD	0.2	NP	NP	42	8	9	20	9	3	6	1 J	5	5	4	5	4	4
4,4'-DDE	0.4	2.2	27	19	4	5	13	5	3	5	3 J	6	6	4	3	5	3
4,4'-DDT	0.2	NP	NP	27	3	7	11	2	1 J	40	2 J	4	3	11	6	2 J	2
Total DDTs[c]	NA	1.58	46.1	88	15	21	44	16	7	51	6	15	14	19	14	11	9
alpha-Chlordane	0.4	NP	NP	3	0.7 J	0.9 J	2 J	1 J	0.5 J	2 U	0.4 J	0.8 J	0.6 J	2 U	2 U	0.7 J	2 U
gamma-Chlordane	0.2	NP	NP	5	1 J	2 J	5	2 J	0.8 J	1 J	0.9 J	2 J	2	1 J	1 J	1 J	0.8 J
Total chlordane[c]	NA	0.5	6	8	1.7	2.9	7	3	1.3	1.2	1.3	2.8	2.6	1.2	1.2	1.7	1
Aldrin	0.2	NP	NP	1 J	2 U	1.6 J	1 J	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
alpha-BHC	0.2	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	20 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
beta-BHC	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	0.5 J	2 U	2 U
delta-BHC	0.4	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	20 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Dieldrin	0.4	0.02	8	2 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan I	0.2	NP	NP	2 U	2 U	2 UJ	2 UJ	2 UJ	2 U	2 UJ	20 U	2 UJ	2 UJ	2 UJ	2 U	2 UJ	2 UJ
Endosulfan II	0.2	NP	NP	2 U	2 U	2 UJ	2 UJ	2 UJ	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan sulfate	0.4	NP	NP	2 U	2 U	2 UJ	2 UJ	2 UJ	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin	0.4	0.02	45	2 U	2 U	2 UJ	2 UJ	2 UJ	2 U	2 UJ	20 U	2 UJ	2 UJ	2 UJ	2 U	2 UJ	2 UJ
Endrin aldehyde	0.2	NP	NP	9	3	4 J	7 J	5 J	3	6 J	5 J	7 J	7 J	5 J	5	6 J	5 J
Endrin ketone	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-BHC (lindane)	0.2	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	20 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Heptachlor	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor epoxide	0.4	NP	NP	0.9 J	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U
Methoxychlor	1	NP	NP	4 UJ	4 UJ	4 U	4 U	4 U	4 UJ	4 U	40 U	4 U	4 U	4 U	4 UJ	4 U	4 U
Toxaphene	5	NP	NP	30 U	30 U	30 UJ	30 UJ	30 UJ	30 U	30 U	300 U	30 U	30 U	30 U	30 U	30 U	30 U

(table continues)

Table 5-7 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER S3S1/ C001SS30	S3S2/ C001SS29	S3S3/ C001SS31	S3S4/ C001SS27	S3S5/ C001SS28
4,4'-DDD	0.2	NP	NP	20 U	20 U	20 U	0.2 J	20 U
4,4'-DDE	0.4	2.2	27	1 J	0.9 J	1 J	1 J	2 J
4,4'-DDT	0.2	NP	NP	20 UJ	20 UJ	20 UJ	2 UJ	2 J
Total DDTs[c]	NA	1.58	46.1	1.2	1.1	1.2	1.3	4.1
alpha-Chlordane	0.4	NP	NP	20 U	20 U	20 U	2 U	20 U
gamma-Chlordane	0.2	NP	NP	20 U	20 U	20 U	2 U	0.5 J
Total chlordane[c]	NA	0.5	6	0.3	0.3	0.3	0.3	0.7
Aldrin	0.2	NP	NP	20 U	20 U	20 U	2 U	20 U
alpha-BHC	0.2	NP	NP	20 UJ	20 UJ	20 UJ	2 U	20 UJ
beta-BHC	0.4	NP	NP	20 U	20 U	20 U	2 U	20 U
delta-BHC	0.4	NP	NP	20 UJ	20 UJ	20 UJ	2 U	20 UJ
Dieldrin	0.4	0.02	8	20 U	20 U	20 U	2 UJ	20 U
Endosulfan I	0.2	NP	NP	20 U	20 U	20 U	2 U	20 U
Endosulfan II	0.2	NP	NP	20 U	20 U	20 U	2 U	20 U
Endosulfan sulfate	0.4	NP	NP	20 U	20 U	20 U	2 U	20 U
Endrin	0.4	0.02	45	20 U	20 U	20 U	2 U	20 U
Endrin aldehyde	0.2	NP	NP	2 J	20 U	2 J	2 U	3 J
Endrin ketone	0.4	NP	NP	20 U	20 U	20 U	2 U	20 U
gamma-BHC (lindane)	0.2	NP	NP	20 UJ	20 UJ	20 UJ	2 U	20 UJ
Heptachlor	0.2	NP	NP	20 U	20 U	20 U	2 UJ	20 U
Heptachlor epoxide	0.4	NP	NP	20 U	20 U	20 U	2 UJ	20 U
Methoxychlor	1	NP	NP	40 U	40 U	40 U	4 U	40 U
Toxaphene	5	NP	NP	300 U	300 U	300 U	30 U	300 U

Notes:
[a] shaded cells indicate value exceeds ERL
[b] outline indicates value exceeds ERM
[c] nondetects are included in summations at one-half the method detection limit

Acronyms/Abbreviations:
BHC – benzene hexachloride
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethene
DDT – dichlorodiphenyltrichloroethane
ERL – effects-range low
ERM – effects-range median
MDL – method detection limit
NA – not applicable
NP – not published

Review Qualifiers:
J – estimated value
U – compound not detected at or above the sample quantitation limit
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value

Table 5-8
Results of PAH Analyses of Surface Sediment
(results reported in micrograms per kilogram)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER											STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER			
				S1S1/ C001SS03	S1S1/ C001SS32	S1S2/ C001SS01	S1S2/ C001SS34	S1S3/ C001SS02	S1S4/ C001SS19	S1S5/ C001SS20	S1S6/ C001SS18	S1S7/ C001SS04	S1S8/ C001SS13	S1S9/ C001SS14	S1S10/ C001SS05	S2S1/ C001SS06	S2S2/ C001SS12	S2S3/ C001SS08	S2S3/ C001SS33
Acenaphthene	2	16	500	100 U	100 U	100 U	100 U	50 U	3 J	4 J	3 J	100 U	4 J	10 U	100 U	50 U	100 U	100 U	100 U
Acenaphthylene	2	44	640	20 J	20 J	100 U	20 J	50 U	11	24	13	100 U	64	16	100 U	10 J	100 U	100 U	100 U
Anthracene	1	85.3	1,100	40 J	40 J	20 J	40 J	8 J	27	56	30	30 J	150	23	51	10 J	20 J	30 J	30 J
Fluorene	2	19	540	100 U	100 U	100 U	100 U	50 U	3 J	7 J	2 J	100 U	10 J	2 J	100 U	50 U	100 U	100 U	100 U
Naphthalene	1	160	2,100	50 U	50 U	50 U	50 U	25 U	4 J	3 J	3 J	50 U	3 J	2 J	50 U	25 U	50 U	50 U	50 U
Phenanthrene	2	240	1,500	70 J	70 J	100 U	53 J	20 J	70	72	54	70 J	140	38	150	20 J	30 J	170	110
Total LPAHs[b]	NA	552	3,160	130	132.5	132.5	115.5	24.5	31.5	166	105	103.5	371	82	204.5	42.5	53.5	203.5	143.5
Benz(a)anthracene	2	261	1,600	130	130	100	100	30 J	110	160	96	110	350	75	140	53	70 J	100	90 J
Benzo(a)pyrene	2	430	1,600	280	290	210	240	51	200	300	200	230	1,000	130	210	110	120	180	170
Benzo(b)fluoranthene	2	NP	NP	350	380	230	240	67	330	450	250	300	900	180	250	110	150	230	210
Benzo(g,h,i)perylene	1	NP	NP	220	220	130	170	51	130	110	110	170	210	74	130	74	120	130	130
Benzo(k)fluoranthene	2	NP	NP	290	320	200	250	56	200	220	180	250	550	120	220	110	140	200	180
Chrysene	3	384	2,800	190	220	150	170	40 J	140	210	130	170	580	110	190	93	120	150	140
Dibenz(a,h)anthracene	1	63.4	260	50 J	56	40 J	30 J	10 J	57	67	41	40 J	85	25	30 J	9 J	20 J	30 J	30 J
Fluoranthene	2	600	5,100	270	290	170	230	68	260	270	210	260	490	160	380	76	130	320	280
Indeno(1,2,3-c,d)pyrene	1	NP	NP	320	310	300	230	64	210	220	190	240	370	130	210	100	170	190	190
Pyrene	3	240	2,600	300	330	170	240	70	260	270	220	300	530	150	390	89	140	300	270
Total HPAHs[b]	NA	1,700	9,600	2,400	2,546	1,700	1,900	507	1,897	2,277	1,627	2,070	5,065	1,154	2,350	824	1,180	1,830	1,690
Total PAHs[b]	NA	4,022	44,792	2,532.5	2,678.5	1,724.5	2,015.5	538.5	2,015	2,443	1,732	2,173.5	5,436	1,236	2,354.5	866.5	1,233.5	2,033.5	1,833.5

(table continues)

Table 5-8 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER													
				S2S4/ C001SS07	S2S5/ C001SS09	S2S6/ C001SS15	S2S7/ C001SS16	S2S8/ C001SS17	S2S9/ C001SS10	S2S10/ C001SS21	S2S11/ C001SS26	S2S12/ C001SS22	S2S12/ C001SS35	S2S13/ C001SS23	S2S14/ C001SS11	S2S15/ C001SS24	S2S16/ C001SS25
Acenaphthene	2	16	500	100 U	50 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U
Acenaphthylene	2	44	640	100 U	50 U	6 J	2 J	4 J	100 U	8 J	13	9 J	10 J	6 J	100 U	10 J	7 J
Anthracene	1	85.3	1,100	30 J	10 J	11	5	9	10 J	15	13	20	22	16	30 J	21	18
Fluorene	2	19	540	100 U	50 U	10 U	10 U	10 U	100 U	10 U	10 U	2 J	10 U	2 J	100 U	3 J	3 J
Naphthalene	1	160	2,100	50 U	25 U	2 J	5 U	1 J	50 U	2 J	1 J	2 J	3 J	2 J	50 U	2 J	1 J
Phenanthrene	2	240	1,500	60 J	40 J	18	9 J	31	100 U	22	19	24	27	22	30 J	25	19
Total LPAHs[b]	NA	552	3,160	93.5	53.5	39	18.5	47	14.5	49	48	58	64	49	63.5	62	49
Benz(a)anthracene	2	261	1,600	90 J	40 J	39	19	34	40 J	52	57	71	75	60	80 J	79	69
Benzo(a)pyrene	2	430	1,600	170	68	72	35	57	80 J	100	100	120	130	110	160	150	130
Benzo(b)fluoranthene	2	NP	NP	210	93	96	52	80	100 J	130	130	160	170	130	170	190	170
Benzo(g,h,i)perylene	1	NP	NP	140	60	53	26	41	60	68	68	78	83	67	120	84	65
Benzo(k)fluoranthene	2	NP	NP	200	85	64	32	53	80 J	85	66	100	110	90	160	120	110
Chrysene	3	384	2,800	160	60	57	26	49	60 J	74	69	99	110	96	140	120	110
Dibenz(a,h)anthracene	1	63.4	260	30 J	10 J	15	8	14	10 J	21	24	23	27	23	20 J	30	25
Fluoranthene	2	600	5,100	270	120	81	42	99	70 J	95	75	100	110	85	140	110	87
Indeno(1,2,3-c,d)pyrene	1	NP	NP	200	88	90	45	71	94	120	230	140	150	120	150	150	120
Pyrene	3	240	2,600	260	120	89	45	93	80 J	100	90	120	120	95	160	130	98
Total HPAHs[b]	NA	1,700	9,600	1,730	744	656	330	591	674	845	909	1,011	1,085	876	1,300	1,163	984
Total PAHs[b]	NA	4,022	44,792	1,823.5	797.5	695	348.5	638	688.5	894	957	1,069	1,149	925	1,363.5	1,225	1,033

(table continues)

Table 5-8 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER S3S1/ C001SS30	S3S2/ C001SS29	S3S3/ C001SS31	S3S4/ C001SS27	S3S5/ C001SS28
Acenaphthene	2	16	500	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	2	44	640	4 J	5 J	5 J	9 J	4 J
Anthracene	1	85.3	1,100	9	10	12	22	21
Fluorene	2	19	540	10 U	3 J	3 J	3 J	3 J
Naphthalene	1	160	2,100	5 U	1 J	5 U	2 J	1 J
Phenanthrene	2	240	1,500	12	12	15	32	24
Total LPAHs[b]	NA	552	3,160	27.5	32	36.5	69	54
Benz(a)anthracene	2	261	1,600	42	40	48	85	98
Benzo(a)pyrene	2	430	1,600	54	55	61	110	130
Benzo(b)fluoranthene	2	NP	NP	73	78	78	130	140
Benzo(g,h,i)perylene	1	NP	NP	26	25	30	47	55
Benzo(k)fluoranthene	2	NP	NP	39	40	43	79	80
Chrysene	3	384	2,800	49	54	59	110	110
Dibenz(a,h)anthracene	1	63.4	260	12	12	14	16 J	25
Fluoranthene	2	600	5,100	49	45	42	130	110
Indeno(1,2,3-c,d)pyrene	1	NP	NP	100	100	120	180 J	210
Pyrene	3	240	2,600	54	49	48	140	120
Total HPAHs[b]	NA	1,700	9,600	498	498	543	1,027	1,078
Total PAHs[b]	NA	4,022	44,792	525.5	530	579.5	1,096	1,132

Notes:
[a] shaded cells indicate value exceeds ERL
[b] nondetects are included in summations at one-half the MDL

Acronyms/Abbreviations:
ERL – effects-range low
ERM – effects-range median
HPAH – high-molecular-weight polynuclear aromatic hydrocarbon
LPAH – low-molecular-weight polynuclear aromatic hydrocarbon
MDL – method detection limit
NA – not applicable
NP – not published
PAH – polynuclear aromatic hydrocarbon

Review Qualifiers:
J – estimated value
U – compound not detected at or above the sample quantitation limit

Table 5-9
Results of Metals Analyses of Subsurface Sediment
(results reported in milligrams per kilogram)

Analyte	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH														
			S1S1/ C001SC34/ (0.5–3 ft)	S1S1/ C001SC35/ (3–7 ft)	S1S2/ C001SC36/ (0.5–2.5 ft)	S1S2/ C001SC37/ (2.5–7 ft)	S1S2/ C001SC38/ (0.5–2.5 ft)	S1S3/ C001SC39/ (0.5– 3.5 ft)	S1S3/ C001SC40/ (3.5–7 ft)	S1S4/ C001SC47/ (0.5–3 ft)	S1S4/ C001SC48/ (3–7 ft)	S1S5/ C001SC43/ (0.5–2.3 ft)	S1S5/ C001SC44/ (2.3–7 ft)	S1S6/ C001SC45/ (0.5–2.4 ft)	S1S6/ C001SC46/ (2.4–7 ft)	S1S7/ C001SC49 (0.5–4 ft)	S1S7 C001SC50 (4–7 ft)	S1S8 C001SC51 (0.5–3.8 ft)
Aluminum	NP	NP	32,800	4,700	26,900	3,890	32,600	5,640	15,400	34,200	3,450	18,900	15,100	23,400	2,100	22,600	7,760	41,600
Antimony	2	25	0.08 J	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 J	0.04 UJ	0.06 J	0.04 UJ	0.05 J	0.04 UJ	0.06 J	0.04 UJ	0.04 UJ	0.04 UJ	0.26 J
Arsenic	8.2	70	7	0.6	5	1	5	2	3	5	1	5	3	4	0.3	4	2	6
Barium	NP	NP	177	31.9	114	22	118	41.6	67.6	127	30.3	87.6	89.9	131	12.9	119	54.7	159
Beryllium	NP	NP	0.9	0.04	0.53	0.13	0.54	0.13	0.32	0.54	0.08	0.43	0.33	0.53	0.04 U	0.47	0.04 U	0.74
Cadmium	1.2	9.6	0.95	0.04 U	0.13	0.04 U	0.16	0.25	0.15	0.93	0.05	0.26	0.04 U	1.22*	0.05	0.45	0.06	1.12
Chromium	81	370	67.5	8.9	32.8	11.4	34.7	16.5	23.3	55.9	9.5	30.2	33.2	55.1	4.8	36.9	12.8	62.2
Cobalt	NP	NP	12.5	2.08	7.64	2.25	8.09	2.8	4.89	8.14	2.84	6.46	7.48	8.33	1.09	7.43	4	9.95
Copper	34	270	41.8	4.1	18.5	4.6	19.8	9.2	12.1	28.4	5.2	22.4	16.7	35.9	2.1	23	7.2	45.7
Iron	NP	NP	41,700	5,810	31,500	5,760	35,400	8,300	17,200	37,500	5,170	21,700	25,800	33,000	2,970	28,100	13,100	43,300
Lead	46.7	218	56.2	1.4	9.48	1.61	10.1	17.1	8.9	41.5	2.19	32.4	3.91	62	0.72	35.3	1.38	77
Manganese	NP	NP	304	43	220	40	235	54	108	260	39	130	181	261	18	199	116	274
Mercury	0.15	0.71	0.3	0.2 U	0.07	0.2 U	0.08	0.06	0.06	0.5	0.2 U	0.3	0.2 U	0.4	0.2 U	0.2	0.2 U	0.4
Nickel	20.9	51.6	18	3.4	10.6	4	11	3.9	7	12.2	3.3	9.9	9.1	13.2	1.5	10.5	3.8	15.9
Selenium	NP	NP	3	0.8	1	0.6	2	0.6	1	2	0.6	2	1	2	2 U	2	2 U	0.7
Silver	1	3.7	1.22	0.03	0.1	0.02	0.11	0.21	0.07	0.9	0.04 U	0.17	0.04 U	1.53	0.04 U	0.41	0.04 U	1.23
Thallium	NP	NP	0.7	0.08	0.48	0.09	0.51	0.13	0.27	0.48	0.1	0.37	0.41	0.48	0.04	0.44	0.17	0.62
Vanadium	NP	NP	101	16.4	65.3	24.5	69.7	24.2	43.5	67.5	19.3	56.9	73.3	66.9	10.7	61.5	29.2	81.6
Zinc	150	410	139	13	58	14	63	33	40	103	17	79	53	128	6	85	25	149

(table continues)

Table 5-9 (continued)

Analyte	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH					STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH										
			S1S8/ C001SC52/ (3.8–6.8 ft)	S1S9/ C001SC53/ (0.5–3.8 ft)	S1S9/ C001SC54/ (3.8–6.5 ft)	S1S10/ C001SC55/ (0.5–3 ft)	S1S10/ C001SC56/ (3–7 ft)	S2S1/ C001SC16/ (0.5–4 ft)	S2S1/ C001SC17/ (4–7 ft)	S2S2/ C001SC26/ 0.5–4 ft)	S2S2/ C001SC27/ (4–7 ft)	S2S3/ C001SC57/ (0.5–3.8 ft)	S2S3/ C001SC58/ (3.8–7 ft)	S2S4/ C001SC59/ (0.5–3.5 ft)	S2S4/ C001SC60/ (3.5–7 ft)	S2S5/ C001SC61/ (0.5–3 ft)	S2S5/ C001SC62/ (3–7 ft)	S2S6/ C001SC63/ (0.5–3 ft)
Aluminum	NP	NP	6,560	30,000	9,660	44,100	14,000	35,200	16,400	28,200	7,090	35,100	5,340	21,200	3,630	48,500	50,400	20,900
Antimony	2	25	0.04 UJ	0.11 J	0.04 UJ	0.04 UJ	0.04 J	0.04 UJ	0.04 UJ	R	R	0.11 J	0.04 UJ	0.08 J	0.04 UJ	0.1 J	0.1 J	0.07 J
Arsenic	8.2	70	1	4	2	7	2	7	5	7	1	4	2	4	0.8	6	4	5
Barium	NP	NP	34	116	45	151	63	145	123	151	58.9	134	48	101	22	116	127	115
Beryllium	NP	NP	0.14	0.59	0.14	0.8	0.23	0.8	0.42	0.7	0.16	0.59	0.17	0.43	0.07	0.79	0.79	0.54
Cadmium	1.2	9.6	0.04 U	0.23	0.04 U	0.47	0.04 U	0.3	0.12	0.3	0.04 U	0.19	0.04 U	0.21	0.04 U	0.21	0.2	0.18
Chromium	81	370	7.8	32.5	11.1	52.8	17.9	52	30.7	47	14.4	35.7	12.6	29.5	8.7	38	37.5	32.8
Cobalt	NP	NP	2.54	8.22	3.57	12.2	4.87	12.7	8.59	12	5.53	9.17	4.09	6.82	1.86	9.51	10.5	8.65
Copper	34	270	4.4	17.6	5.4	32.6	8.8	29.9	18.1	27.8	20.9	19.6	6.7	15.5	2.8	17.6	21.4	18.1
Iron	NP	NP	8,620	33,900	13,000	44,500	19,300	43,400	24,800	37,000	10,200	37,700	8,910	25,300	6,940	47,900	49,600	27,800
Lead	46.7	218	1.86	13.3	1.39	26.5	2.21	13.8	5.96	13.5	2.79	10.3	2.54	8.93	1.85	10.6	10.3	8.09
Manganese	NP	NP	45	217	89	284	126	314	212	281	81	253	60	176	44	337	347	209
Mercury	0.15	0.71	0.2 U	0.2	0.2 U	0.2	0.2 U	0.2	0.04	0.2	0.03	0.09	0.2 U	0.07	0.2 U	0.07	0.08	0.07
Nickel	20.9	51.6	3	10.1	3.6	16.8	5.8	16	9.6	15	4.8	11.6	4.1	8.5	3	14	13.8	10.5
Selenium	NP	NP	2 U	2 U	2 U	4 U	2 U	4 U	2 U	4 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Silver	1	3.7	0.04 U	0.26	0.01 U	0.3	0.02 U	0.18	0.06	0.27	0.1	0.13	0.04 U	0.16	0.04 U	0.08 U	0.1 U	0.12
Thallium	NP	NP	0.09	0.5	0.14	0.63	0.22	0.7	0.47	0.7	0.18	0.55	0.16	0.37	0.07	0.59	0.55	0.46
Vanadium	NP	NP	19.4	59.4	27.1	97.6	43.3	98	66.1	89	31.5	66.9	30.2	52.9	16.1	64.8	70.1	61.6
Zinc	150	410	13	58	19	104	34.5	90	54	89	24	60	22	49	10	64	66	54

(table continues)

Table 5-9 (continued)

Analyte	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH															
			S2S6/ C001SC64/ (3–7 ft)	S2S7/ C001SC65/ (0.5–3 ft)	S2S7/ C001SC66/ (3–7 ft)	S2S8/ C001SC32/ (0.5–5.5 ft)	S2S8/ C001SC33/ (5.5–7 ft)	S2S9/ C001SC30/ (0.5–3 ft)	S2S9/ C001SC31/ (3–7 ft)	S2S10/ C001SC28/ (0.5–3 ft)	S2S10/ C001SC29/ (3–7 ft)	S2S11/ C001SC24/ (0.5–3.5 ft)	S2S11/ C001SC25/ (3.5–7 ft)	S2S12/ C001SC22/ (0.5–3.5 ft)	S2S12/ C001SC23/ (3–7 ft)	S2S13/ C001SC20/ (0.5–3.5 ft)	S2S13/ C001SC21/ (3.5–7 ft)	S2S14/ C001SC18/ (0.5–4 ft)
Aluminum	NP	NP	20,900	17,300	37,700	26,200	2,680	15,900	9,580	28,400	10,900	13,800	23,100	8,560	27,600	12,200	15,200	33,600
Antimony	2	25	0.04 UJ	0.16 J	0.09 J	R	R	0.04 J	R	R	R	R	R	R	R	R	R	0.03 J
Arsenic	8.2	70	3	4	5	7	0.9	5	3	7	3	3	6	3	6	3	4	6
Barium	NP	NP	4,050	112	151	142	17.1	90.1	65.4	145	68.2	113	100	88.7	148	99.4	127	131
Beryllium	NP	NP	0.11	0.38	0.66	0.69	0.06	0.35	0.23	0.7	0.24	0.2	0.7	0.18	0.51	0.2	0.27	0.58
Cadmium	1.2	9.6	0.04 U	0.75	0.34	0.28	0.04 U	0.78	0.21	0.2	0.06	0.25	0.2	0.05	0.16	0.36	0.34	0.38
Chromium	81	370	9.5	47.7	45.6	44	5.3	46.6	21.6	45	17.4	30.5	16	15	36	31.1	34.6	44.8
Cobalt	NP	NP	4.3	6.5	9.86	12.7	2.67	5.92	4.37	12	5.02	6.63	31.1	5.1	9.91	5.96	7.77	10.1
Copper	34	270	4.4	31.2	22.6	26.9	4.7	33.1	11.1	27.1	9.4	14.8	19	8.5	20.8	17.3	15.5	25.8
Iron	NP	NP	7,150	23,500	40,700	35,600	4,550	21,400	13,700	36,200	15,000	18,600	30,900	12,200	34,600	17,700	22,100	39,700
Lead	46.7	218	1.61	32.9	12.9	12.1	1.15	32.5	6.4	12.4	3.15	7	10.6	2.72	9.83	10.5	5.76	15.6
Manganese	NP	NP	62	162	272	306	39	150	115	273	120	167	301	112	272	153	194	278
Mercury	0.15	0.71	0.2 U	0.3	0.1	0.1	0.2 U	0.3	0.09	0.1	0.03	0.08	0.2	0.04	0.1	0.2	0.07	0.2
Nickel	20.9	51.6	4.3	10.4	12.7	14	2.2	9.4	4.9	14	5.6	6.9	11	4.9	10.9	6.5	7.6	11.9
Selenium	NP	NP	2 U	2 U	2 U	4 U	2 U	2 U	2 U	4 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U	2 U
Silver	1	3.7	0.04 U	2.99	0.4	0.24	0.02	1.87	0.36	0.19	0.03	0.22	0.1	0.08	0.11	0.43	0.16	0.29
Thallium	NP	NP	0.12	0.44	0.63	0.6	0.06	0.42	0.25	0.7	0.26	0.37	0.6	0.27	0.64	0.35	0.42	0.63
Vanadium	NP	NP	20.7	49	74.5	90	15.6	47.5	34.7	91	37.5	42.8	66	33.5	73.1	38	51.2	77.8
Zinc	150	410	16	100	72	76	9	102	36	83	31	52	62	29	65	58	52	75

(table continues)

Table 5-9 (continued)

Analyte	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH						STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER/DEPTH									
			S2S14/ C001SC19/ (4–7 ft)	S2S15/ C001SC14/ (0.5–3 ft)	S2S15/ C001SC15/ (3–7 ft)	S2S16/ C001SC11/ (0.5–3 ft)	S2S16/ C001SC12/ (3–7 ft)	S2S16/ C001SC13/ (3–7 ft)	S3S1/ C001SC07/ (0.5–2.5 ft)	S3S1/ C001SC08/ (2.5–7 ft)	S3S2/ C001SC05/ (0.5–4 ft)	S3S2/ C001SC06/ (4–7 ft)	S3S3/ C001SC09/ (0.5–4 ft)	S3S3/ C001SC10/ (4–7 ft)	S3S4/ C001SC03/ (0.5–3 ft)	S3S4/ C001SC04/ (3–7 ft)	S3S5/ C001SC01/ (0.5–3 ft)	S3S5/ C001SC02/ (3–8 ft)
Aluminum	NP	NP	10,900	26,100	7,640	8,710	8,650	8,040	14,900	4,750	5,220	6,540	3,780	2,330	11,100	4,980	10,900	6,310
Antimony	2	25	R	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ	0.04 UJ
Arsenic	8.2	70	5	7	2	3	3	4	2	2	3	2	1	1	4	0.4	3	1
Barium	NP	NP	75.9	148	51.3	64.8	55.5	62	97	49.4	45.6	67	40	38.8	74.6	51.2	63.6	29.4
Beryllium	NP	NP	0.25	0.7	0.16	0.31	0.25	0.22	0.35	0.15	0.16	0.22	0.12	0.16	0.3	0.12	0.25	0.19
Cadmium	1.2	9.6	0.07	0.3	0.04	0.18	0.04 U	0.04 U	0.02	0.04 U	0.21	0.04 U	0.09	0.04 U	0.38	0.23	0.25	0.04 U
Chromium	81	370	18.3	48	13	22.2	16.6	17.6	24.9	12.8	16.1	16.4	11	8.1	27.2	6.5	22.1	6.5
Cobalt	NP	NP	6.88	12.2	3.4	5.19	6.33	7.57	6.68	3.62	3.49	3.97	2.93	2.85	5.35	2.61	5.06	2.77
Copper	34	270	10.2	31.3	6.1	16.1	10	9.9	14.4	6.8	13.9	8.1	9.9	5	19.8	13.4	15.9	4.4
Iron	NP	NP	14,500	36,200	11,100	13,700	13,800	16,400	22,200	9,580	8,930	10,900	6,690	3,050	16,900	6,360	15,400	6,950
Lead	46.7	218	4.04	13	1.88	9.51	2.51	2.53	4.33	1.32	7.38	2.56	3.83	0.91	11.5	1.59	9.71	1.63
Manganese	NP	NP	120	284	95	109	102	112	156	57	76	75	52	26	133	60	113	70
Mercury	0.15	0.71	0.04	0.1	0.2 U	0.07	0.2 U	0.2 U	0.02	0.2 U	0.2	0.2 U	0.04	0.2 U	0.2	0.2 U	0.2	0.2 U
Nickel	20.9	51.6	6.4	15	4.1	6.5	5.6	6.4	7	3.8	4.4	5.1	3.5	3.1	7	2.8	6.1	2.6
Selenium	NP	NP	2 U	4 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Silver	1	3.7	0.05	0.31	0.016	0.31	0.07	0.013	0.013	0.04 U	0.21	0.07	0.02	0.09	0.31	0.04 U	0.29	0.04 U
Thallium	NP	NP	0.3	0.6	0.22	0.31	0.22	0.25	0.34	0.14 U	0.23	0.18	0.12 U	0.15 U	0.37	0.08 U	0.29	0.13 U
Vanadium	NP	NP	40.4	91	27.5	40.9	45	55.9	56.7	40.1	25.7	42.9	26.3	22.4	41.6	14.9	37.9	19.9
Zinc	150	410	35	91	25	50	28	29	40	19	46	26	21	22	58	11	49	20

Note:
* shading indicates value exceeds ERL

Acronyms/Abbreviations:
ERL – effects-range low
ERM – effects-range median
ft – foot
NP – not published

Review Qualifiers:
J – estimated value
R – data deemed unusable during validation process
U – compound not detected at or above the sample quantitation limit
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value

Table 5-10
Results of Organotin Analyses of Subsurface Sediment
(results reported in micrograms per kilogram)

Analyte	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH								
	S1S1/ C001SC34/ (0.5–3 ft)	S1S1/ C001SC35/ (3–7 ft)	S1S2/ C001SC36/ (0.5–2.5 ft)	S1S2/ C001SC38/ (0.5–2.5 ft)	S1S2/ C001SC37/ (2.5–7 ft)	S1S3/ C001SC39/ (0.5–3.5 ft)	S1S3/ C001SC40/ (3.5–7 ft)	S1S4/ C001SC47/ (0.5–3 ft)	S1S4/ C001SC48/ (3–7 ft)
Dibutyltin	4	0.9 J	1 U	0.6 J	1 U	5	1 U	1	1 U
Tetrabutyltin	3 U	3 U	5 U	3 U	3 U	3 U	3 U	3 U	3 U
Tributyltin	2	0.6 J	1 U	1 U	1 U	0.9 J	0.5 J	1	1 U

Analyte	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH								
	S1S5/ C001SC43/ (0.5–2.3 ft)	S1S5/ C001SC44/ (2.3–7 ft)	S1S6/ C001SC45/ (0.5–2.4 ft)	S1S6/ C001SC46/ (2.4–7 ft)	S1S7/ C001SC49/ (0.5–4 ft)	S1S7/ C001SC50/ (4–7 ft)	S1S8/ C001SC51/ (0.5–3.8 ft)	S1S8/ C001SC52/ (3.8–6.8 ft)	S1S9/ C001SC53/ (0.5–3.8 ft)
Dibutyltin	1	2	1	1 U	2	1 U	4	1 U	2
Tetrabutyltin	1	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Tributyltin	1 U	1 U	1	1 U	1	1 U	3	1 U	0.7 J

Analyte	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER/DEPTH			STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH					
	S1S9/ C001SC54/ (3.8–6.5 ft)	S1S10/ C001SC55/ (0.5–3 ft)	S1S10/ C001SC56/ (3–7 ft)	S2S1/ C001SC16/ (0.5– 4 ft)	S2S1/ C001SC17/ (4–7 ft)	S2S2/ C001SC26/ (0.5–4 ft)	S2S2/ C001SC27/ (4–7 ft)	S2S3/ C001SC57/ (0.5–3.8 ft)	S2S3/ C001SC58/ (3.8–7 ft)
Dibutyltin	1 U	1	1 U	1	1 U	2	0.5 J	1 U	1 U
Tetrabutyltin	3 U	3 U	3 U	1 J	3 U	3 U	3 U	3 U	3 U
Tributyltin	1 U	0.9 J	1 U	1 U	1 U	0.7 J	0.4 J	1 U	1 U

(table continues)

Table 5-10 (continued)

Analyte	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH								
	S2S4/ C001SC59/ (0.5–3.5 ft)	S2S4/ C001SC60/ (3.5–7 ft)	S2S5/ C001SC61/ (0.5–3 ft)	S2S5/ C001SC62/ (3–7 ft)	S2S6/ C001SC63/ (0.5–3 ft)	S2S6/ C001SC64/ (3–7 ft)	S2S7/ C001SC65/ (0.5–3 ft)	S2S7/ C001SC66/ (3–7 ft)	S2S8/ C001SC32/ (0.5–5.5 ft)
Dibutyltin	0.6 J	1 U	1 U	1 U	1 U	1 U	2	1 U	0.4 J
Tetrabutyltin	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Tributyltin	1 U	1 U	1 U	1 U	0.5 J	1 U	0.5 J	1 U	0.5 J

Analyte	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH								
	S2S8/ C001SC33/ (5.5–7 ft)	S2S9/ C001SC30/ (0.5–3 ft)	S2S9/ C001SC31/ (3–7 ft)	S2S10/ C001SC28/ (0.5–3 ft)	S2S10/ C001SC29/ (3–7 ft)	S2S11/ C001SC24/ (0.5–3.5 ft)	S2S11/ C001SC25/ (3.5–7 ft)	S2S12/ C001SC22/ (0.5–3.5 ft)	S2S12/ C001SC23/ (3–7 ft)
Dibutyltin	1 U	9	1 U	0.6 J	1 U	1	1 U	1 U	0.4 J
Tetrabutyltin	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Tributyltin	1 U	0.7 J	1 U	0.5 J	1 U	0.7J	1 U	1 U	0.4 J

Analyte	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH								
	S2S13/ C001SC20/ (0.5–3.5 ft)	S2S13/ C001SC21/ (3.5–7 ft)	S2S14/ C001SC18/ (0.5–4 ft)	S2S14/ C001SC19/ (4–7 ft)	S2S15/ C001SC14/ (0.5–3 ft)	S2S15/ C001SC15/ (3–7 ft)	S2S16/ C001SC11/ (0.5–3 ft)	S2S16/ C001SC12/ (3–7 ft)	S2S16/ C001SC13/ (3–7 ft)
Dibutyltin	2	1 U	3	1 U	1 J	1 U	2	1 U	1 U
Tetrabutyltin	3 U	3 U	3 U	3 U	.5 J	3 U	3 U	0.8 J	3 U
Tributyltin	1 U	1 U	0.6 J	1 U	1 U	1 U	0.7 J	1 U	1 U

(table continues)

Table 5-10 (continued)

Analyte	STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER/DEPTH									
	S3S1/ C001SC07/ (0.5–2.5 ft)	S3S1/ C001SC08/ (2.5–7 ft)	S3S2/ C001SC05/ (0.5–4 ft)	S3S2/ C001SC06/ (4–7 ft)	S3S3/ C001SC09/ (0.5–4 ft)	S3S3/ C001SC10/ (4–7 ft)	S3S4/ C001SC03/ (0.5–3 ft)	S3S4/ C001SC04/ (3–7 ft)	S3S5/ C001SC01/ (0.5–3 ft)	S3S5/ C001SC02/ (3–8 ft)
Dibutyltin	1 U	1 U	3	1 U	6	1 U	2	0.7 J	2	1 U
Tetrabutyltin	2 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U	3 U
Tributyltin	0.5 J	1 U	0.6 J	1 U	2	1 U	0.7 J	0.9 J	0.4 J	1 U

Acronym/Abbreviation:
ft – foot

Review Qualifiers:
J – estimated value
U – compound not detected at or above the sample quantitation limit

Table 5-11
Results of Sulfide Analyses of Subsurface Sediment
(results reported in milligrams per kilogram as dry weight)

UPPER INTERVAL				LOWER INTERVAL			
Station	Sample ID	Depth Interval (feet)	Sulfide	Station	Sample ID	Depth Interval (feet)	Sulfide
Stratum 1, Upper Boat Channel							
S1S1	C001SC34	0.5–3	176 J	S1S1	C001SC35	3–7	29.9
S1S2	C001SC36	0.5–2.5	32.4 J	S1S2	C001SC37	2.5–7	1.6 J
S1S2	C001SC38	0.5–2.5	5.8 J	—	—	—	—
S1S3	C001SC39	0.5–3.5	4.3 J	S1S3	C001SC40	3.5–7	4.9 J
S1S4	C001SC47	0.5–3	R	S1S4	C001SC48	3–7	1.4 J
S1S5	C001SC43	0.5–2.3	64.6 J	S1S5	C001SC44	2.3–7	2.3 J
S1S6	C001SC45	0.5–2.4	141 J	S1S6	C001SC46	2.4–7	2.9 J
S1S7	C001SC49	0.5–4	22.4 J	S1S7	C001SC50	4–7	2.4 J
S1S8	C001SC51	0.5–3.8	249	S1S8	C001SC52	3.8–6.8	2.1
S1S9	C001SC53	0.5–3.8	7.7 J	S1S9	C001SC54	3.8–6.5	1.5
S1S10	C001SC55	0.5–3	25	S1S10	C001SC57	3–7	4.8
Stratum 2, Lower Boat Channel							
S2S1	C001SC16	0.5–4	33.3	S2S1	C001SC17	4–7	5.8
S2S2	C001SC26	0.5–4	10.3	S2S2	C001SC27	4–7	2
S2S3	C001SC57	0.5–3.8	33.1	S2S3	C001SC58	3.8–7	1.4
S2S4	C001SC59	0.5–3.5	4.7	S2S4	C001SC60	3.5–7	6.8
S2S5	C001SC61	0.5–3	10.6	S2S5	C001SC62	3–7	8.1
S2S6	C001SC63	0.5–3	5.5	S2S6	C001SC64	3–7	1.6
S2S7	C001SC65	0.5–3	83.8	S2S7	C001SC66	3–7	22.8
S2S8	C001SC32	0.5–5.5	0.5 U	S2S8	C001SC33	5.5–7	17.8
S2S9	C001SC30	0.5–3	41.4	S2S9	C001SC31	3–7	156
S2S10	C001SC28	0.5–3	22.4	S2S10	C001SC29	3–7	1
S2S11	C001SC24	0.5–3.5	27.8	S2S11	C001SC25	3.5–7	38.3
S2S12	C001SC22	0.5–3.5	18.9	S2S12	C001SC23	3.5–7	0.9
S2S13	C001SC20	0.5–3.5	62.9	S2S13	C001SC21	3.5–7	48.7
S2S14	C001SC18	0.5–4	33	S2S14	C001SC19	4–7	35
S2S15	C001SC14	0.5–3	12.1	S2S15	C001SC15	3–7	3.7
S2S16	C001SC11	0.5–3	13.1	S2S16	C001SC12	3–7	1.7
—	—	—	—	S2S16	C001SC13	3–7	1.1

(table continues)

Table 5-11 (continued)

UPPER INTERVAL				LOWER INTERVAL			
Station	Sample ID	Depth Interval (feet)	Sulfide	Station	Sample ID	Depth Interval (feet)	Sulfide
Stratum 3, Reference Area							
S3S1	C001SC07	0.5–2.5	0.5	S3S1	C001SC08	2.5–7	0.6
S3S2	C001SC05	0.5–4	33.4	S3S2	C001SC09	4–7	0.6
S3S3	C001SC09	0.5–4	25.4	S3S3	C001SC10	4–7	0.5 U
S3S4	C001SC03	0.5–3	54.4	S3S4	C001SC04	3–7	4.7
S3S5	C001SC01	0.5–3	75.9	S3S5	C001SC02	3–8	1

Review Qualifiers:
J – estimated value
R – data rejected during validation process
U – compound or element was analyzed for but not detected at or above the sample quantitation limit

The 4,4′-DDE concentrations exceeding the ERL of 2.2 µg/kg were reported in the upper subsurface sediment sample interval at stations S1S1, S1S6, S1S7, S1S8, S1S10, S2S9, and S2S10. The total DDT concentrations exceeding the ERL of 1.58 µg/kg were reported in the upper subsurface sediment sample interval at stations S1S1, S1S3, S1S4, S1S5, S1S6, S1S7, S1S8, S1S9, S1S10, S2S7, S2S9, S2S10, and S2S13.

The total chlordane concentrations exceeding the ERL of 0.5 µg/kg were reported in all subsurface sediment sample intervals.

The ERM for 4,4′-DDE of 27 µg/kg was exceeded in the upper subsurface sediment sample interval at stations S2S9 and S2S10.

The ERM for total DDTs of 46.1 µg/kg was exceeded in the upper subsurface sediment sample interval from stations S1S1, S1S6, S1S7, S1S10, S2S9, and S2S10 and the lower subsurface sediment sample interval at station S2S11. Concentrations of total chlordane exceeded the ERM in the upper subsurface sediment sample interval at station S1S1.

5.5.6 Semivolatile Organic Compounds

The ERL values for pyrene and total HPAHs were exceeded in the upper subsurface sediment interval at station S1S8. The results of the PAH analyses are presented in Table 5-14.

5.6 SURFACE WATER CHEMISTRY

During low tide, surface water samples were collected with a Valscon sampler from nine stations at 1 foot below the water surface. This section describes the results of the chemical analyses of surface water samples. At the stations where duplicate samples were collected, both results are presented in tables; however, only the highest reported concentration is discussed in the text. Analytical results are included in Appendix G.

Table 5-12
Results of PCB Analyses of Subsurface Sediment
(results reported in micrograms per kilogram)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S1S1/ C001SC34/ (0.5–3 ft)	S1S1/ C001SC35/ (3–7 ft)	S1S2/ C001SC36/ (0.5–2.5 ft)	S1S2/ C001SC38/ (0.5–2.5 ft)	S1S2/ C001SC37/ (2.5–7 ft)	S1S3/ C001SC39/ (0.5–3.5 ft)	S1S3/ C001SC40/ (3.5–7 ft)	S1S4/ C001SC47/ (0.5–3 ft)
PCB-8 (2,4′)[a]	0.4	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
PCB-18 (2,2′,5)[a]	0.2	NP	NP	1 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
PCB-28 (2,4,4′)[a]	0.09	NP	NP	1	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U
PCB-44 (2,2′,3,5′)[a]	0.07	NP	NP	2.7	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	1.2
PCB-52 (2,2′,5,5′)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	0.5 U	1.7
PCB-60	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6 U	0.5 U	2 U
PCB-66 (2,3′,4,4′)[a]	0.09	NP	NP	7.3	0.5 U	0.5 U	0.5 U	0.5 U	1.1	0.5 U	3.4
PCB-77 (3,3′,4,4′)	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-81	0.06	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	3 U
PCB-87	0.07	NP	NP	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5
PCB-90	0.2	NP	NP	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-101 (2,2′,4,5,5′)[a]	0.2	NP	NP	6.6	0.5 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	3.3
PCB-105 (2,3,3′,4,4′)[a]	0.4	NP	NP	2.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1
PCB-114	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-118 (2,3′,4,4′,5)[a]	0.07	NP	NP	0.7 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	0.5 U	2.5
PCB-123	0.07	NP	NP	0.9 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J
PCB-126 (3,3′,4,4′,5)	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-128 (2,2′,3,3′,4,4′)[a]	0.2	NP	NP	1.6	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.7
PCB-138 (2,2′,3,4,4′,5′)[a]	0.3	NP	NP	9.8	0.5 U	0.5 U	0.5 U	0.5 U	1.3	0.5 U	5.3
PCB-153 (2,2′,4,4′,5,5′)[a]	0.2	NP	NP	6.4	0.5 U	0.5 U	0.5 U	0.5 U	1	0.5 U	3.7
PCB-156	0.09	NP	NP	0.7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5
PCB-157	0.07	NP	NP	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J
PCB-158	0.07	NP	NP	1	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5
PCB-166	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S1S1/ C001SC34/ (0.5 – 3 ft)	S1S1/ C001SC35/ (3 – 7 ft)	S1S2/ C001SC36/ (0.5 – 2.5 ft)	S1S2/ C001SC38/ (0.5 – 2.5 ft)	S1S2/ C001SC37/ (2.5 – 7 ft)	S1S3/ C001SC39/ (0.5 – 3.5 ft)	S1S3/ C001SC40/ (3.5 – 7 ft)	S1S4/ C001SC47/ (0.5 – 3 ft)
PCB-167	0.2	NP	NP	1.1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-169	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-170 (2,2′,3,3′,4,4′,5)[a]	0.3	NP	NP	2.3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5
PCB-180 (2,2′,3,4,4′,5,5′)[a]	0.3	NP	NP	3.7	0.5 U	0.5 U	0.5 U	0.5 U	0.7	0.5 U	3
PCB-183	0.08	NP	NP	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.9
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2′,3,4′,5,5′,6)[a]	0.2	NP	NP	2.5	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	1.7
PCB-189	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J
PCB-195 (2,2′,3,3′,4,4′,5,6)[a]	0.07	NP	NP	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J
PCB-206 (2,2′,3,3′,4,4′,5,5′,6)[a]	0.07	NP	NP	0.9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.6
PCB-209 (decachlorobiphenyl)[a]	0.08	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total PCBs[b]	NA	22.7	180	95.82[c]	3.31	3.31	3.31	3.31	16.12	3.31	60.77

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S1S4/ C001SC48/ (3–7 ft)	S1S5/ C001SC43/ (0.5–2.3 ft)	S1S5/ C001SC44/ (2.3–7 ft)	S1S6/ C001SC45/ (0.5–2.4 ft)	S1S6/ C001SC46/ (2.4–7 ft)	S1S7/ C001SC49/ (0.5–4 ft)	S1S7/ C001SC50/ (4–7 ft)	S1S8/ C001SC51/ (0.5–3.8 ft)
PCB-8 (2,4')[a]	0.4	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.8 U
PCB-18 (2,2',5)[a]	0.2	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.7 U
PCB-28 (2,4,4')[a]	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.4 J	0.5 U	0.8 U
PCB-44 (2,2',3,5')[a]	0.07	NP	NP	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	1	0.5 U	1.6
PCB-52 (2,2',5,5')[a]	0.07	NP	NP	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	1.5	0.5 U	2 U
PCB-60	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.1 U	0.5 U	2.3 U
PCB-66 (2,3',4,4')[a]	0.09	NP	NP	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	2.5	0.5 U	4.1
PCB-77 (3,3',4,4')	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	7.4 U
PCB-81	0.06	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	1.2	0.5 U	4 U
PCB-90	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U
PCB-101 (2,2',4,5,5')[a]	0.2	NP	NP	0.5 U	0.4 J	0.5 U	3.7	0.5 U	2.5	0.5 U	4.5
PCB-105 (2,3,3',4,4')[a]	0.4	NP	NP	0.5 U	0.5 U	0.5 U	1.3	0.5 U	0.8	0.5 U	1.7
PCB-114	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8 U
PCB-118 (2,3',4,4',5)[a]	0.07	NP	NP	0.5 U	0.1 J	0.5 U	0.6	0.5 U	1.8	0.5 U	3.2
PCB-123	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U
PCB-126 (3,3',4,4',5)	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
PCB-128 (2,2',3,3',4,4')[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	1	0.5 U	0.6	0.5 U	0.8
PCB-138 (2,2',3,4,4',5')[a]	0.3	NP	NP	0.5 U	0.4 J	0.5 U	6.4	0.5 U	3.7	0.5 U	7.6
PCB-153 (2,2',4,4',5,5')[a]	0.2	NP	NP	0.5 U	0.3 J	0.5 U	3	0.5 U	2.4	0.5 U	4
PCB-156	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.4 J	0.5 U	1
PCB-157	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.6	0.5 U	0.4 J	0.5 U	0.6
PCB-166	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S1S4/ C001SC48/ (3–7 ft)	S1S5/ C001SC43/ (0.5–2.3 ft)	S1S5/ C001SC44/ (2.3–7 ft)	S1S6/ C001SC45/ (0.5–2.4 ft)	S1S6/ C001SC46/ (2.4–7 ft)	S1S7/ C001SC49/ (0.5–4 ft)	S1S7/ C001SC50/ (4–7 ft)	S1S8/ C001SC51/ (0.5–3.8 ft)
PCB-167	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.8
PCB-169	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-170 (2,2',3,3',4,4',5)[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	1.2 U	0.5 U	0.8	0.5 U	1
PCB-180 (2,2',3,4,4',5,5')[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	1.7	0.5 U	1.5	0.5 U	2.4
PCB-183	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.4 J	0.5 U	0.4 J
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2',3,4',5,5',6)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	1.1	0.5 U	1	0.5 U	1.9
PCB-189	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-195 (2,2',3,3',4,4',5,6)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-206 (2,2',3,3',4,4',5,5',6)[a]	0.07	NP	NP	0.5 U	0.07 J	0.5 U	0.7	0.5 U	0.4 J	0.5 U	0.7 U
PCB-209 (decachlorobiphenyl)[a]	0.08	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total PCBs[b]	NA	22.7	180	3.31	5.78	3.31	41.21	3.31	42.55	3.31	66.58

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH					STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER/DEPTH		
				S1S8/ C001SC52/ (3.8–6.8 ft)	S1S9/ C001SC53/ (0.5–3.8 ft)	S1S9/ C001SC54/ (3.8–6.5 ft)	S1S10/ C001SC55/ (0.5–3 ft)	S1S10/ C001SC56/ (3–7 ft)	S2S1/ C001SC16/ (0.5–4 ft)	S2S1/ C001SC17/ (4–7 ft)	S2S2/ C001SC26/ (0.5–4 ft)
PCB-8 (2,4')[a]	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.6	0.5 U	0.5 UJ
PCB-18 (2,2',5)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 UJ
PCB-28 (2,4,4')[a]	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.15 J	0.5 U	0.2 J
PCB-44 (2,2',3,5')[a]	0.07	NP	NP	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5	0.5 U	0.2 J
PCB-52 (2,2',5,5')[a]	0.07	NP	NP	0.5 U	0.08 J	0.5 U	0.5 J	0.5 U	0.3 J	0.5 U	0.3 J
PCB-60	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.6 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-66 (2,3',4,4')[a]	0.09	NP	NP	0.5 U	0.6	0.5 U	1.1	0.5 U	1.5	0.5 U	0.8
PCB-77 (3,3',4,4')	0.3	NP	NP	0.5 U	1.2	0.5 U	1.6 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U
PCB-81	0.06	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	0.5 U	0.2 J	0.5 U	0.9	0.5 U	0.43 J	0.5 U	0.4 J
PCB-90	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-101 (2,2',4,5,5')[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	1.1	0.5 U	1.3	0.5 U	0.7
PCB-105 (2,3,3',4,4')[a]	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.2 J
PCB-114	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J
PCB-118 (2,3',4,4',5)[a]	0.07	NP	NP	0.5 U	0.4 J	0.5 U	0.7	0.5 U	0.9	0.5 U	0.6
PCB-123	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-126 (3,3',4,4',5)	0.2	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
PCB-128 (2,2',3,3',4,4')[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.3 J	0.5 U	0.5 U
PCB-138 (2,2',3,4,4',5')[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	1.5 U	0.5 U	1.7	0.5 U	1
PCB-153 (2,2',4,4',5,5')[a]	0.2	NP	NP	0.5 U	0.4 J	0.5 U	0.9	0.5 U	1.6	0.5 U	0.8 J
PCB-156	0.09	NP	NP	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.14 J	0.5 U	0.5 U
PCB-157	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.16 J	0.5 U	0.5 U
PCB-166	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH					STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER/DEPTH		
				S1S8/ C001SC52/ (3.8–6.8 ft)	S1S9/ C001SC53/ (0.5–3.8 ft)	S1S9/ C001SC54/ (3.8–6.5 ft)	S1S10/ C001SC55/ (0.5–3 ft)	S1S10/ C001SC56/ (3–7 ft)	S2S1/ C001SC16/ (0.5–4 ft)	S2S1/ C001SC17/ (4–7 ft)	S2S2/ C001SC26/ (0.5–4 ft)
PCB-167	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-169	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-170 (2,2′,3,3′,4,4′,5)[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.44 J	0.5 U	0.5 U
PCB-180 (2,2′,3,4,4′,5,5′)[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.6	0.5 U	0.8	0.5 U	0.6
PCB-183	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.11 J	0.5 U	0.1 J
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2′,3,4′,5,5′,6)[a]	0.2	NP	NP	0.5 U	0.4 J	0.5 U	0.6	0.5 U	0.8	0.5 U	0.4 J
PCB-189	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-195 (2,2′,3,3′,4,4′,5,6)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.13 J	0.5 U	0.5 U
PCB-206 (2,2′,3,3′,4,4′,5,5′,6)[a]	0.07	NP	NP	0.3 J	0.2 J	0.5 U	0.5 U	0.5 U	0.5	0.21 J	0.2 J
PCB-209[a] (decachlorobiphenyl)	0.08	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ
Total PCBs[b]	NA	22.7	180	3.84	7.1	3.31	13.98	3.31	23.72	3.66	13.25

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S2S2/ C001SC27/ (4–7 ft)	S2S3/ C001SC57/ (0.5–3.8 ft)	S2S3/ C001SC58/ (3.8–7 ft)	S2S4/ C001SC59/ (0.5–3.5 ft)	S2S4/ C001SC60/ (3.5–7 ft)	S2S5/ C001SC61/ (0.5–3 ft)	S2S5/ C001SC62/ (3–7 ft)	S2S6/ C001SC63/ (0.5–3 ft)
PCB-8 (2,4′)[a]	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
PCB-18 (2,2′,5)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
PCB-28 (2,4,4′)[a]	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-44 (2,2′,3,5′)[a]	0.07	NP	NP	0.5 U	0.09 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-52 (2,2′,5,5′)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-60	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-66 (2,3′,4,4′)[a]	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.1 J
PCB-77 (3,3′,4,4′)	0.3	NP	NP	0.5 UJ	0.5 U	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 U
PCB-81	0.06	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.1 J
PCB-90	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-101 (2,2′,4,5,5′)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-105 (2,3,3′,4,4′)[a]	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-114	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-118 (2,3′,4,4′,5)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.09 J
PCB-123	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-126 (3,3′,4,4′,5)	0.2	NP	NP	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
PCB-128 (2,2′,3,3′,4,4′)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-138 (2,2′,3,4,4′,5′)[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-153 (2,2′,4,4′,5,5′)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
PCB-156	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-157	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-166	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S2S2/ C001SC27/ (4–7 ft)	S2S3/ C001SC57/ (0.5–3.8 ft)	S2S3/ C001SC58/ (3.8–7 ft)	S2S4/ C001SC59/ (0.5–3.5 ft)	S2S4/ C001SC60/ (3.5–7 ft)	S2S5/ C001SC61/ (0.5–3 ft)	S2S5/ C001SC62/ (3–7 ft)	S2S6/ C001SC63/ (0.5–3 ft)
PCB-167	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U
PCB-169	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
PCB-170 (2,2′,3,3′,4,4′,5)[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
PCB-180 (2,2′,3,4,4′,5,5′)[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
PCB-183	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2′,3,4′,5,5′,6)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-189	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-195 (2,2′,3,3′,4,4′,5,6)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-206 (2,2′,3,3′,4,4′,5,5′,6)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U
PCB-209[a] **(decachlorobiphenyl)**	0.08	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total PCBs[b]	NA	22.7	180	3.31	3.42	3.31	3.91	3.31	3.42	3.44	3.53

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S2S6/ C001SC64/ (3–7 ft)	S2S7/ C001SC65/ (0.5–3 ft)	S2S7/ C001SC66/ (3–7 ft)	S2S8/ C001SC32/ (0.5–5.5 ft)	S2S8/ C001SC33/ (5.5–7 ft)	S2S9/ C001SC30/ (0.5–3 ft)	S2S9/ C001SC31/ (3–7 ft)	S2S10/ C001SC28/ (0.5–3 ft)
PCB-8 (2,4')[a]	0.4	NP	NP	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.6	0.5 U	0.5 U	0.5 U
PCB-18 (2,2',5)[a]	0.2	NP	NP	0.3 J	0.5 UJ	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-28 (2,4,4')[a]	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U
PCB-44 (2,2',3,5')[a]	0.07	NP	NP	0.5 U	0.8	0.2 J	0.1 J	0.5 U	0.7	0.1 J	0.5 U
PCB-52 (2,2',5,5')[a]	0.07	NP	NP	0.5 U	1.3	0.1 J	0.5 U	0.5 U	0.8	0.5 U	0.5 U
PCB-60	0.3	NP	NP	0.5 U	1.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-66 (2,3',4,4')[a]	0.09	NP	NP	0.5 U	2.9	0.3 J	0.1 J	0.5 U	2.4	0.3 J	0.1 J
PCB-77 (3,3',4,4')	0.3	NP	NP	0.5 U	1.5 U	0.5 U	0.5 U	0.5 U	1.1 U	0.5 U	0.5 UJ
PCB-81	0.06	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	0.5 U	0.9	0.2 J	0.5 U	0.5 U	0.6	0.1 J	0.1 J
PCB-90	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-101 (2,2',4,5,5')[a]	0.2	NP	NP	0.5 U	2.4	0.3 J	0.5 U	0.5 U	2.2	0.4 J	0.5 U
PCB-105 (2,3,3',4,4')[a]	0.4	NP	NP	0.5 U	0.8	0.5 U	0.5 U	0.5 U	0.6	0.5 U	0.5 U
PCB-114	0.1	NP	NP	0.5 U	0.5	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U
PCB-118 (2,3',4,4',5)[a]	0.07	NP	NP	0.5 U	1.9	0.2 J	0.1 J	0.5 U	1.7	0.2 J	0.1 J
PCB-123	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-126 (3,3',4,4',5)	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U
PCB-128 (2,2',3,3',4,4')[a]	0.2	NP	NP	0.5 U	0.6	0.5 U	0.5 U	0.5 U	0.5 J	0.5 U	0.5 U
PCB-138 (2,2',3,4,4',5')[a]	0.3	NP	NP	0.5 U	3.6	0.5 U	0.3 J	0.5 U	3.1	0.5	0.5 U
PCB-153 (2,2',4,4',5,5')[a]	0.2	NP	NP	0.5 UJ	2.8	0.5 U	0.2 J	0.5 U	2.6	0.5 J	0.3 J
PCB-156	0.09	NP	NP	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U
PCB-157	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U
PCB-166	0.1	NP	NP	0.5 UJ	0.5 U	0.1 J	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S2S6/ C001SC64/ (3–7 ft)	S2S7/ C001SC65/ (0.5–3 ft)	S2S7/ C001SC66/ (3–7 ft)	S2S8/ C001SC32/ (0.5–5.5 ft)	S2S8/ C001SC33/ (5.5–7 ft)	S2S9/ C001SC30/ (0.5–3 ft)	S2S9/ C001SC31/ (3–7 ft)	S2S10/ C001SC28/ (0.5–3 ft)
PCB-167	0.2	NP	NP	0.2 J	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U
PCB-169	0.09	NP	NP	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-170 (2,2′,3,3′,4,4′,5)[a]	0.3	NP	NP	0.5 UJ	0.9 U	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.5 U
PCB-180 (2,2′,3,4,4′,5,5′)[a]	0.3	NP	NP	0.5 UJ	1.6	0.5 U	0.5 U	0.5 U	1.6	0.4 J	0.5 U
PCB-183	0.08	NP	NP	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2′,3,4′,5,5′,6)[a]	0.2	NP	NP	0.5 U	1.2	0.5 U	0.5 U	0.5 U	1.3	0.2 J	0.5 U
PCB-189	0.08	NP	NP	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-195 (2,2′,3,3′,4,4′,5,6)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-206 (2,2′,3,3′,4,4′,5,5′,6)[a]	0.07	NP	NP	0.5 U	0.5	0.2 J	0.3 J	0.5 U	0.6	0.4 J	0.1 J
PCB-209[a] (decachlorobiphenyl)	0.08	NP	NP	2 U	2 U	2 U	2 UJ	2 UJ	200 U	2 UJ	200 U
Total PCBs[b]	NA	22.7	180	3.71	41.94	5.54	4.71	4.11	39.35	7.81	4.08

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S2S10/ C001SC29/ (3–7 ft)	S2S11/ C001SC24/ (0.5–3.5 ft)	S2S11/ C001SC25/ (3.5–7 ft)	S2S12/ C001SC22/ (0.5–3.5 ft)	S2S12/ C001SC23/ (3–7 ft)	S2S13/ C001SC20/ (0.5–3.5 ft)	S2S13/ C001SC21/ (3.5–7 ft)	S2S14/ C001SC18/ (0.5–4 ft)
PCB-8 (2,4')[a]	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-18 (2,2',5)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-28 (2,4,4')[a]	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-44 (2,2',3,5')[a]	0.07	NP	NP	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J
PCB-52 (2,2',5,5')[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	0.5 U	0.5 U
PCB-60	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U
PCB-66 (2,3',4,4')[a]	0.09	NP	NP	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	1.4	0.5 U	0.8
PCB-77 (3,3',4,4')	0.3	NP	NP	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-81	0.06	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U	0.5 J	0.5 U	0.2 J
PCB-90	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-101 (2,2',4,5,5')[a]	0.2	NP	NP	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	1.3	0.5 U	0.4 J
PCB-105 (2,3,3',4,4')[a]	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J
PCB-114	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U
PCB-118 (2,3',4,4',5)[a]	0.07	NP	NP	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.7
PCB-123	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-126 (3,3',4,4',5)	0.2	NP	NP	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 UJ
PCB-128 (2,2',3,3',4,4')[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.2 J
PCB-138 (2,2',3,4,4',5')[a]	0.3	NP	NP	0.5 U	0.6	0.5 U	0.5 U	0.5 U	1.6	0.5 U	1.2
PCB-153 (2,2',4,4',5,5')[a]	0.2	NP	NP	0.5 U	0.5 J	0.5 U	0.5 U	0.5 U	1.4	0.5 U	0.8
PCB-156	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U
PCB-157	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.1 J
PCB-166	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S2S10/ C001SC29/ (3–7 ft)	S2S11/ C001SC24/ (0.5–3.5 ft)	S2S11/ C001SC25/ (3.5–7 ft)	S2S12/ C001SC22/ (0.5–3.5 ft)	S2S12/ C001SC23/ (3–7 ft)	S2S13/ C001SC20/ (0.5–3.5 ft)	S2S13/ C001SC21/ (3.5–7 ft)	S2S14/ C001SC18/ (0.5–4 ft)
PCB-167	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-169	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-170 (2,2',3,3',4,4',5)[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U
PCB-180 (2,2',3,4,4',5,5')[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	0.5 U	0.5 J
PCB-183	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2',3,4',5,5',6)[a]	0.2	NP	NP	0.5 U	0.2 J	0.5 U	0.5 U	0.5 U	0.7	0.5 U	0.8
PCB-189	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-195 (2,2',3,3',4,4',5,6)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U
PCB-206 (2,2',3,3',4,4',5,5',6)[a]	0.07	NP	NP	0.5 U	0.1 J	0.1 J	0.5 U	0.5 U	0.3 J	0.2 J	0.2 J
PCB-209[a] (decachlorobiphenyl)	0.08	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Total PCBs[b]	NA	22.7	180	3.31	7.11	3.44	3.31	3.31	20.44	3.64	13.41

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH						STRATUM 3, REFERENCE AREA SAMPLING LOCATION/ SAMPLE NUMBER/ DEPTH	
				S2S14/ C001SC19/ (4–7 ft)	S2S15/ C001SC14/ (0.5–3 ft)	S2S15/ C001SC15/ (3–7 ft)	S2S16/ C001SC11/ (0.5–3 ft)	S2S16/ C001SC12/ (3–7 ft)	S2S16/ C001SC13/ (3–7 ft)	S3S1/ C001SC07/ (0.5–2.5 ft)	S3S1/ C001SC08/ (2.5–7 ft)
PCB-8 (2,4′)[a]	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-18 (2,2′,5)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-28 (2,4,4′)[a]	0.09	NP	NP	0.5 U	0.29 J	0.5 U	0.16 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-44 (2,2′,3,5′)[a]	0.07	NP	NP	0.5 U	0.2 J	0.5 U	0.45 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-52 (2,2′,5,5′)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.58	0.5 U	0.5 U	0.5 U	0.5 U
PCB-60	0.3	NP	NP	0.5 U	0.33 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-66 (2,3′,4,4′)[a]	0.09	NP	NP	0.5 U	0.26 J	0.5 U	1.6	0.5 U	0.5 U	0.5 U	0.5 U
PCB-77 (3,3′,4,4′)	0.3	NP	NP	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ
PCB-81	0.06	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	0.5 U	0.19 J	0.5 U	0.44 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-90	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-101 (2,2′,4,5,5′)[a]	0.2	NP	NP	0.5 U	0.5	0.5 U	1.3	0.5 U	0.5 U	0.5 U	0.5 U
PCB-105 (2,3,3′,4,4′)[a]	0.4	NP	NP	0.5 U	0.17 J	0.5 U	0.45 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-114	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-118 (2,3′,4,4′,5)[a]	0.07	NP	NP	0.5 U	0.38 J	0.5 U	0.99	0.5 U	0.5 U	0.5 U	0.5 U
PCB-123	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-126 (3,3′,4,4′,5)	0.2	NP	NP	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-128 (2,2′,3,3′,4,4′)[a]	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.3 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-138 (2,2′,3,4,4′,5′)[a]	0.3	NP	NP	0.5 U	0.7	0.5 U	1.8	0.5 U	0.5 U	0.5 U	0.5 U
PCB-153 (2,2′,4,4′,5,5′)[a]	0.2	NP	NP	0.5 U	0.6	0.5 U	1.5	0.5 U	0.5 U	0.5 U	0.5 U
PCB-156	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.17 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-157	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.16 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-166	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH						STRATUM 3, REFERENCE AREA SAMPLING LOCATION/ SAMPLE NUMBER/ DEPTH	
				S2S14/ C001SC19/ (4–7 ft)	S2S15/ C001SC14/ (0.5–3 ft)	S2S15/ C001SC15/ (3–7 ft)	S2S16/ C001SC11/ (0.5–3 ft)	S2S16/ C001SC12/ (3–7 ft)	S2S16/ C001SC13/ (3–7 ft)	S3S1/ C001SC07/ (0.5–2.5 ft)	S3S1/ C001SC08/ (2.5–7 ft)
PCB-167	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-169	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-170 (2,2′,3,3′,4,4′,5)[a]	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.4 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-180 (2,2′,3,4,4′,5,5′)[a]	0.3	NP	NP	0.5 U	0.32 J	0.5 U	0.8	0.5 U	0.5 U	0.5 U	0.5 U
PCB-183	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.14 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2′,3,4′,5,5′,6)[a]	0.2	NP	NP	0.5 U	0.31 J	0.5 U	0.67	0.5 U	0.5 U	0.5 U	0.5 U
PCB-189	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-195 (2,2′,3,3′,4,4′,5,6)[a]	0.07	NP	NP	0.5 U	0.5 U	0.5 U	0.12 J	0.5 U	0.5 U	0.5 U	0.5 U
PCB-206 (2,2′,3,3′,4,4′,5,5′,6)[a]	0.07	NP	NP	0.5 U	0.28 J	0.41 J	0.27 J	0.2 J	0.5 U	0.5 U	0.5 U
PCB-209[a] **(decachlorobiphenyl)**	0.08	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total PCBs[b]	NA	22.7	180	3.31	9.34	4.06	23.46	3.64	3.31	3.31	3.31

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S3S2/ C001SC05/ (0.5–4 ft)	S3S2/ C001SC06/ (4–7 ft)	S3S3/ C001SC09/ (0.5–4 ft)	S3S3/ C001SC10/ (4–7 ft)	S3S4/ C001SC03/ (0.5–3 ft)	S3S4/ C001SC04/ (3–7 ft)	S3S5/ C001SC01/ (0.5–3 ft)	S3S5/ C001SC02/ (3–8 ft)
PCB-8 (2,4')[a]	0.4	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-18 (2,2',5)[a]	0.2	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-28 (2,4,4')[a]	0.09	NP	NP	0.5	0.5 U	0.11 J	0.5 U	0.2 J	0.11 J	0.5 U	0.5 U
PCB-44 (2,2',3,5')[a]	0.07	NP	NP	0.44 J	0.5 U	0.5 U	0.5 U	0.8	0.5 U	0.5	0.5 U
PCB-52 (2,2',5,5')[a]	0.07	NP	NP	0.6	0.5 U	0.5 U	0.5 U	0.9	0.5 U	0.38 J	0.5 U
PCB-60	0.3	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5	0.5 U
PCB-66 (2,3',4,4')[a]	0.09	NP	NP	0.8	0.5 U	0.13 J	0.5 U	2.3	0.5 U	1.3	0.5 U
PCB-77 (3,3',4,4')	0.3	NP	NP	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U
PCB-81	0.06	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-87	0.07	NP	NP	0.37 J	0.5 UJ	0.1 J	0.5 U	0.6	0.5 U	0.36 J	0.5 U
PCB-90	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-101 (2,2',4,5,5')[a]	0.2	NP	NP	1.1	0.5 U	0.27 J	0.5 U	2	0.5 U	0.7	0.5 U
PCB-105 (2,3,3',4,4')[a]	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.6	0.5 U	0.33 J	0.5 U
PCB-114	0.1	NP	NP	0.25 J	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.23 J	0.5 U
PCB-118 (2,3',4,4',5)[a]	0.07	NP	NP	0.9	0.5 U	0.24 J	0.5 U	1.6	0.5 U	0.8	0.5 U
PCB-123	0.07	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-126 (3,3',4,4',5)	0.2	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-128 (2,2',3,3',4,4')[a]	0.2	NP	NP	0.24 J	0.5 U	0.5 U	0.5 U	0.45 J	0.5 U	0.26 J	0.5 U
PCB-138 (2,2',3,4,4',5')[a]	0.3	NP	NP	1.6 J	0.5 UJ	0.6	0.5 U	2.7	0.5 U	1.5	0.5 U
PCB-153 (2,2',4,4',5,5')[a]	0.2	NP	NP	1.3	0.5 U	0.48 J	0.5 U	2.4	0.5 U	1.3	0.5 U
PCB-156	0.09	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.23 J	0.5 U	0.13 J	0.5 U
PCB-157	0.07	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-158	0.07	NP	NP	0.08 J	0.5 U	0.5 U	0.5 U	0.29 J	0.5 U	0.16 J	0.5 U
PCB-166	0.1	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J	0.5 U	0.5 U	0.5 U

(table continues)

Table 5-12 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S3S2/ C001SC05/ (0.5–4 ft)	S3S2/ C001SC06/ (4–7 ft)	S3S3/ C001SC09/ (0.5–4 ft)	S3S3/ C001SC10/ (4–7 ft)	S3S4/ C001SC03/ (0.5–3 ft)	S3S4/ C001SC04/ (3–7 ft)	S3S5/ C001SC01/ (0.5–3 ft)	S3S5/ C001SC02/ (3–8 ft)
PCB-167	0.2	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-169	0.09	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-170 (2,2',3,3',4,4',5)[a]	0.3	NP	NP	0.4 J	0.5 U	0.5 U	0.5 U	0.8	0.5 U	0.35 J	0.5 U
PCB-180 (2,2',3,4,4',5,5')[a]	0.3	NP	NP	0.8	0.5 U	0.3 J	0.5 U	1.4	0.5 U	0.6	0.5 U
PCB-183	0.08	NP	NP	0.21 J	0.5 UJ	0.5 U	0.5 U	0.35 J	0.5 U	0.5 U	0.5 U
PCB-184	0.08	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-187 (2,2',3,4',5,5',6)[a]	0.2	NP	NP	0.6	0.5 U	0.2 J	0.5 U	1.1	0.5 U	0.6	0.5 U
PCB-189	0.08	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
PCB-195 (2,2',3,3',4,4',5,6)[a]	0.07	NP	NP	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.17 J	0.5 U	0.5 U	0.5 U
PCB-206 (2,2',3,3',4,4',5,5',6)[a]	0.07	NP	NP	0.18 J	0.5 U	0.5 U	0.5 U	0.5	0.5 U	0.29 J	0.18 J
PCB-209[a] **(decachlorobiphenyl)**	0.08	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total PCBs[b]	NA	22.7	180	20.07	3.31	6.52	3.31	36.52[c]	3.44	18.66	3.6

Notes:
[a] **boldface** indicates the NOAA 18 PCB congeners
[b] total PCBs are equal to 2 times the sum of the NOAA 18 congeners; nondetects were included in the summation at one-half the method detection limit
[c] shading indicates value exceeds the ERL

Acronyms/Abbreviations:
ERL – effects-range low
ERM – effects-range median
MDL – method detection limit
NOAA – National Oceanic and Atmospheric Administration
NP – not published
PCB – polychlorinated biphenyl

Review Qualifiers:
J – estimated value
U – compound not detected at or above the sample quantitation limit
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value

Table 5-13
Results of Pesticide Analyses of Subsurface Sediment
(results reported in micrograms per kilogram)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S1S1/ C001SC34/ (0.5–3 ft)	S1S1/ C001SC35/ (3–7 ft)	S1S2/ C001SC36/ (0.5–2.5 ft)	S1S2/ C001SC37/ (2.5–7 ft)	S1S2/ C001SC38/ (0.5–2.5 ft)	S1S3/ C001SC39/ (0.5–3.5 ft)	S1S3/ C001SC40/ (3.5–7 ft)	S1S4/ C001SC47/ (0.5–3 ft)
4,4′-DDD	0.2	NP	NP	227	0.9 J	1 J	2 U	0.5 J	1 J	2 U	4
4,4′-DDE	0.4	2.2	27	26	2 U	0.4 J	2 U	2 U	0.5 J	2 U	0.9 J
4,4′-DDT	0.2	NP	NP	40	2 U	2 U	2 U	0.4 J	1 J	2 U	2 U
Total DDTs[b]	NA	1.58	46.1	293[c]	1.2	1.3	0.4	1.3	2.5	0.4	5.3
alpha-Chlordane	0.4	NP	NP	7	2 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-Chlordane	0.2	NP	NP	11	2 U	0.2 J	2 U	2 U	0.2 J	2 U	0.4 J
Total chlordane[b]	NA	0.5	6	18	0.3	0.4	0.3	0.3	0.4	0.3	0.6
Aldrin	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
alpha-BHC	0.2	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
beta-BHC	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
delta-BHC	0.4	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Dieldrin	0.4	0.02	8	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Endosulfan I	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan II	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan sulfate	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin	0.4	0.02	45	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin aldehyde	0.2	NP	NP	4	2 U	0.3 J	2 U	2 U	0.4 J	2 U	0.2 J
Endrin ketone	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-BHC (lindane)	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor epoxide	0.4	NP	NP	1.2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.8
Methoxychlor	1	NP	NP	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Toxaphene	5	NP	NP	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U

(table continues)

Table 5-13 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH S1S4/ C001SC48/ (3–7 ft)	S1S5/ C001SC43/ (0.5–2.3 ft)	S1S5/ C001SC44/ (2.3–7 ft)	S1S6/ C001SC45/ (0.5–2.4 ft)	S1S6/ C001SC46/ (2.4–7 ft)	S1S7/ C001SC49/ (0.5–4 ft)	S1S7/ C001SC50/ (4–7 ft)	S1S8/ C001SC51/ (0.5–3.8 ft)
4,4'-DDD	0.2	NP	NP	2 U	2 J	2 U	90	0.3 J	170	2 U	34
4,4'-DDE	0.4	2.2	27	2 U	0.6 J	2 U	17	2 U	16	2 U	11
4,4'-DDT	0.2	NP	NP	2 U	0.5 J	2 U	2 U	2 U	2	2 U	2 U
Total DDTs[b]	NA	1.58	46.1	0.4	3.1	0.4	108	0.6	188	0.4	45.1
alpha-Chlordane	0.4	NP	NP	2 U	2 U	2 U	1 J	2 U	6	2 U	2 J
gamma-Chlordane	0.2	NP	NP	2 U	2 U	2 U	2	2 U	10	2 U	3
Total chlordane[b]	NA	0.5	6	0.3	0.3	0.3	3	0.3	16	0.3	5
Aldrin	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
alpha-BHC	0.2	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
beta-BHC	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
delta-BHC	0.4	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Dieldrin	0.4	0.02	8	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Endosulfan I	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan II	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan sulfate	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin	0.4	0.02	45	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin aldehyde	0.2	NP	NP	2 U	0.7 J	2 U	3	2 U	3	2 U	4 U
Endrin ketone	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.8 J
gamma-BHC (lindane)	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	1 J	2 U	0.5 J
Heptachlor epoxide	0.4	NP	NP	0.5 U	0.1 J	0.5 U	0.8	0.5 U	0.4 J	0.5 U	1.2 U
Methoxychlor	1	NP	NP	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Toxaphene	5	NP	NP	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U

(table continues)

Table 5-13 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH					STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER/DEPTH		
				S1S8/ C001SC52/ (3.8–6.8 ft)	S1S9/ C001SC53/ (0.5–3.8 ft)	S1S9/ C001SC54/ (3.8–6.5 ft)	S1S10/ C001SC55/ (0.5–3 ft)	S1S10/ C001SC56/ (3–7 ft)	S2S1/ C001SC16/ (0.5–4 ft)	S2S1/ C001SC17/ (4–7 ft)	S2S2/ C001SC26/ (0.5–4 ft)
4,4′-DDD	0.2	NP	NP	2 U	0.9 J	2 U	43	2 U	2 U	2 U	2 U
4,4′-DDE	0.4	2.2	27	2 U	0.5 J	2 U	5	2 U	2 U	2 U	2 U
4,4′-DDT	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total DDTs[b]	NA	1.58	46.1	0.4	2.4	0.4	48.1	0.4	0.4	0.4	0.4
alpha-Chlordane	0.4	NP	NP	2 U	2 U	2 U	1 J	2 U	2 U	2 U	2 U
gamma-Chlordane	0.2	NP	NP	2 U	2 U	2 U	2	2 U	2 U	2 U	2 U
Total chlordane[b]	NA	0.5	6	0.3	0.3	0.3	3	0.3	0.3	0.3	0.3
Aldrin	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
alpha-BHC	0.2	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 U
beta-BHC	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
delta-BHC	0.4	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 U
Dieldrin	0.4	0.02	8	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 U
Endosulfan I	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan II	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan sulfate	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin	0.4	0.02	45	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin aldehyde	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	0.3 J	2 U	2 U
Endrin ketone	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-BHC (lindane)	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ
Heptachlor	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ
Heptachlor epoxide	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7	0.5 U	0.4 J
Methoxychlor	1	NP	NP	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Toxaphene	5	NP	NP	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U

(table continues)

Table 5-13 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S2S2/ C001SC27/ (4–7 ft)	S2S3/ C001SC57/ (0.5–3.8 ft)	S2S3/ C001SC58/ (3.8–7 ft)	S2S4/ C001SC59/ (0.5–3.5 ft)	S2S4/ C001SC60/ (3.5–7 ft)	S2S5/ C001SC61/ (0.5–3 ft)	S2S5/ C001SC62/ (3–7 ft)	S2S6/ C001SC63/ (0.5–3 ft)
4,4'-DDD	0.2	NP	NP	2 U	2 U	2 U	0.4 J	2 U	2 U	2 U	2 U
4,4'-DDE	0.4	2.2	27	2 U	2 U	2 U	0.4 J	2 U	2 U	2 U	2 U
4,4'-DDT	0.2	NP	NP	2 U	2 U	2 U	0.3 J	2 U	2 U	2 U	2 U
Total DDTs[b]	NA	1.58	46.1	0.3	0.3	0.3	1.1	0.4	0.4	0.4	0.4
alpha-Chlordane	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-Chlordane	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total chlordane[b]	NA	0.5	6	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4
Aldrin	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
alpha-BHC	0.2	NP	NP	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
beta-BHC	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
delta-BHC	0.4	NP	NP	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Dieldrin	0.4	0.02	8	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Endosulfan I	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan II	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan sulfate	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin	0.4	0.02	45	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin aldehyde	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin ketone	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-BHC (lindane)	0.2	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor	0.2	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor epoxide	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.1 J
Methoxychlor	1	NP	NP	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Toxaphene	5	NP	NP	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U

(table continues)

Table 5-13 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S2S6/ C001SC64/ (3–7 ft)	S2S7/ C001SC65/ (0.5–3 ft)	S2S7/ C001SC66/ (3–7 ft)	S2S8/ C001SC32/ (0.5–5.5 ft)	S2S8/ C001SC33/ (5.5–7 ft)	S2S9/ C001SC30/ (0.5–3 ft)	S2S9/ C001SC31/ (3–7 ft)	S2S10/ C001SC28/ (0.5–3 ft)
4,4′-DDD	0.2	NP	NP	2 U	0.8 J	2 U	2 U	2 U	200 U	2 U	200 U
4,4′-DDE	0.4	2.2	27	2 U	1 J	2 U	2 U	2 U	40 J	2 U	90 J
4,4′-DDT	0.2	NP	NP	2 U	1 J	2 U	2 U	2 U	7,000	2 U	17,400
Total DDTs[b]	NA	1.58	46.1	0.4	2.8	0.4	0.4	0.4	7,040.1	0.4	17,490.1
alpha-Chlordane	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	200 U	2 U	200 U
gamma-Chlordane	0.2	NP	NP	2 U	0.2 J	2 U	2 U	2 U	200 U	2 U	200 U
Total chlordane[b]	NA	0.5	6	0.3	2.2	0.3	0.3	0.3	0.3	0.3	0.3
Aldrin	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	200 U	2 U	200 U
alpha-BHC	0.2	NP	NP	2 UJ	2 UJ	2 UJ	2 U	2 U	200 U	2 U	200 U
beta-BHC	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	200 U	2 U	200 U
delta-BHC	0.4	NP	NP	2 UJ	2 UJ	2 UJ	2 U	2 U	200 U	2 U	200 U
Dieldrin	0.4	0.02	.8	2 UJ	2 UJ	2 UJ	2 U	2 U	200 U	2 U	200 U
Endosulfan I	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	200 U	2 U	200 U
Endosulfan II	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	200 U	2 U	200 U
Endosulfan sulfate	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	200 U	2 U	200 U
Endrin	0.4	0.02	45	2 U	2 U	2 U	2 U	2 U	200 U	2 U	200 U
Endrin aldehyde	0.2	NP	NP	2 U	0.5 J	2 U	2 U	2 U	200 U	2 U	200 U
Endrin ketone	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	200 U	2 U	200 U
gamma-BHC (lindane)	0.2	NP	NP	2 U	2 U	2 U	2 UJ	2 UJ	200 U	2 UJ	200 U
Heptachlor	0.2	NP	NP	2 U	2 U	2 U	2 UJ	2 UJ	200 U	2 UJ	200 U
Heptachlor epoxide	0.4	NP	NP	0.5 U	0.9	0.2 J	0.5 U	0.5 U	0.8	0.5 U	0.5 U
Methoxychlor	1	NP	NP	4 U	4 U	4 U	4 U	4 U	400 U	4 U	400 U
Toxaphene	5	NP	NP	30 U	30 U	30 U	30 U	30 U	3,000 U	30 U	3,000 U

(table continues)

Table 5-13 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S2S10/ C001SC29/ (3–7 ft)	S2S11/ C001SC24/ (0.5–3.5 ft)	S2S11/ C001SC25/ (3.5–7 ft)	S2S12/ C001SC22/ (0.5–3.5 ft)	S2S12/ C001SC23/ (3–7 ft)	S2S13/ C001SC20/ (0.5–3.5 ft)	S2S13/ C001SC21/ (3.5–7 ft)	S2S14/ C001SC18/ (0.5–4 ft)
4,4′-DDD	0.2	NP	NP	2 U	2 U	10	2 U	2 U	0.6	2 U	2 U
4,4′-DDE	0.4	2.2	27	2 U	2 U	0.9 J	2 U	2 U	0.6	2 U	2 U
4,4′-DDT	0.2	NP	NP	0.3 J	2 U	260	2 U	0.2 J	10	2	1
Total DDTs[b]	NA	1.58	46.1	0.6	0.4	270.9	0.4	0.5	11.2	2.3	1.3
alpha-Chlordane	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-Chlordane	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total chlordane[b]	NA	0.5	6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Aldrin	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
alpha-BHC	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
beta-BHC	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
delta-BHC	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dieldrin	0.4	0.02	8	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan I	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan II	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan sulfate	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin	0.4	0.02	45	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin aldehyde	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin ketone	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	0.4	2 U	2 U
gamma-BHC (lindane)	0.2	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
heptachlor	0.2	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Heptachlor epoxide	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	0.5 U	0.5 U
Methoxychlor	1	NP	NP	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Toxaphene	5	NP	NP	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U

(table continues)

Table 5-13 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH						STRATUM 3, REFERENCE AREA SAMPLING LOCATION/ SAMPLE NUMBER/ DEPTH	
				S2S14/ C001SC19/ (4–7 ft)	S2S15/ C001SC14/ (0.5–3 ft)	S2S15/ C001SC15/ (3–7 ft)	S2S16/ C001SC11/ (0.5–3 ft)	S2S16/ C001SC12/ (3–7 ft)	S2S16/ C001SC13/ (3–7 ft)	S3S1/ C001SC07/ (0.5–2.5 ft)	S3S1/ C001SC08/ (2.5–7 ft)
4,4′-DDD	0.2	NP	NP	2 U	2 U	2 U	0.8 J	2 U	2 U	2 U	2 U
4,4′-DDE	0.4	2.2	27	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4,4′-DDT	0.2	NP	NP	2	2 U	0.2 J	11	2 U	2 U	2 U	2 U
Total DDTs[b]	NA	1.58	46.1	2.3	0.4	0.5	12	0.4	0.4	0.4	0.4
alpha-Chlordane	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-Chlordane	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total chlordane[b]	NA	0.5	6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Aldrin	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
alpha-BHC	0.2	NP	NP	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
beta-BHC	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
delta-BHC	0.4	NP	NP	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Dieldrin	0.4	0.02	8	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Endosulfan I	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan II	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan sulfate	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin	0.4	0.02	45	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin aldehyde	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin ketone	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-BHC (lindane)	0.2	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor	0.2	NP	NP	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor epoxide	0.4	NP	NP	0.5 U	0.5 U	0.5 U	0.12 J	0.5 U	0.5 U	0.5 U	0.5 U
Methoxychlor	1	NP	NP	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Toxaphene	5	NP	NP	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U

(table continues)

Table 5-13 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER/DEPTH							
				S3S2/ C001SC05/ (0.5–4 ft)	S3S2/ C001SC06/ (4–7 ft)	S3S3/ C001SC09/ (0.5–4 ft)	S3S3/ C001SC10/ (4–7 ft)	S3S4/ C001SC03/ (0.5–3 ft)	S3S4/ C001SC04/ (3–7 ft)	S3S5/ C001SC01/ (0.5–3 ft)	S3S5/ C001SC02/ (3–8 ft)
4,4'-DDD	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
4,4'-DDE	0.4	2.2	27	2 U	2 U	2 U	2 U	0.6 J	2 U	2 U	2 U
4,4'-DDT	0.2	NP	NP	0.7 J	2 U	2 U	2 U	5	2 U	0.5 J	2 U
Total DDTs[b]	NA	1.58	46.1	1.0	0.4	0.4	0.4	5.7	0.4	0.8	0.4
alpha-Chlordane	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-Chlordane	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total chlordane[b]	NA	0.5	6	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Aldrin	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
alpha-BHC	0.2	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
beta-BHC	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
delta-BHC	0.4	NP	NP	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Dieldrin	0.4	0.02	8	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ	2 UJ
Endosulfan I	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan II	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endosulfan sulfate	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin	0.4	0.02	45	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Endrin aldehyde	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	0.4 J	2 U
Endrin ketone	0.4	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
gamma-BHC (lindane)	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor	0.2	NP	NP	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Heptachlor epoxide	0.4	NP	NP	0.28 J	0.5 U	0.5 U	0.5 U	0.6	0.5 U	1.2	0.5 U
Methoxychlor	1	NP	NP	4 U	4 U	4 U	4 U	4 U	4 U	4 U	4 U
Toxaphene	5	NP	NP	30 U	30 U	30 U	30 U	30 U	30 U	30 U	30 U

(table continues)

Table 5-13 (continued)

Notes:
[a] shading indicates value exceeds ERL
[b] nondetects are included in summations at one-half the MDL
[c] outline indicates value exceeds ERM

Acronyms/Abbreviations:
BHC – benzene hexachloride
DDD – dichlorodiphenyldichloroethane
DDE – dichlorodiphenyldichloroethene
DDT – dichlorodiphenyltrichloroethane
ERL – effects-range low
ERM – effects-range median
MDL – method detection limit
NP – not published

Review Qualifiers:
J – estimated value
U – compound not detected at or above the sample quantitation limit
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value

Table 5-14
Results of PAH Analyses of Subsurface Sediment
(results reported in micrograms per kilogram)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH					
				S1S1/ C001SC34/ (0.5–3 ft)	S1S1/ C001SC35/ (3–7 ft)	S1S2/ C001SC36/ (0.5–2.5 ft)	S1S2/ C001SC37/ (2.5–7 ft)	S1S2/ C001SC38/ (0.5–2.5 ft)	S1S3/ C001SC39/ (0.5–3.5 ft)
Acenaphthene	2	16	500	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	2	44	640	5 J	10 U	10 U	10 U	10 U	10 U
Anthracene	1	85.3	1,100	11	5 U	5 U	5 U	5 U	3 J
Fluorene	2	19	540	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	1	160	2,100	2 J	5 U	5 U	5 U	5 U	5 U
Phenanthrene	2	240	1,500	18	10 U	2 J	10 U	3 J	9 J
Total LPAHs[a]	NA	552	3,160	38	5	6	5	7	15.5
Benz(a)anthracene	2	261	1,600	36	10 U	2 J	10 U	3 J	5 J
Benzo(a)pyrene	2	430	1,600	74	10 U	6 J	10 U	6 J	13
Benzo(b)fluoranthene	2	NP	NP	120	10 U	5 J	10 U	6 J	15
Benzo(g,h,i)perylene	1	NP	NP	50	5 U	5 J	5 U	6	11
Benzo(k)fluoranthene	2	NP	NP	50	10 U	4 J	10 U	4 J	11
Chrysene	3	384	2,800	30	10 U	3 J	10 U	3 J	8 J
Dibenz(a,h)anthracene	1	63.4	260	16 J	5 U	5 U	5 U	5 U	2 J
Fluoranthene	2	600	5,100	54	10 U	6 J	10 U	7 J	18
Indeno(1,2,3-c,d)pyrene	1	NP	NP	150 J	2 J	10	5 U	12	22
Pyrene	3	240	2,600	230	10 U	7 J	10 U	9 J	18
Total HPAHs[b]	NA	1,700	9,600	810	11.5	48.5	9.5	56.5	123
Total PAHs[c]	NA	4,022	44,792	848	16.5	54.5	14.5	63.5	138.5

(table continues)

Table 5-14 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH					
				S1S3/ C001SC40/ (3.5–7 ft)	S1S4/ C001SC47/ (0.5–3 ft)	S1S4/ C001SC48/ (3–7 ft)	S1S5/ C001SC43/ (0.5–2.3 ft)	S1S5/ C001SC44/ (2.3–7 ft)	S1S6/ C001SC45/ (0.5–2.4 ft)
Acenaphthene	2	16	500	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	2	44	640	10 U	3 J	10 U	6 J	10 U	8 J
Anthracene	1	85.3	1,100	2 J	4 J	5 U	6	5 U	12
Fluorene	2	19	540	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	1	160	2,100	5 U	1 J	5 U	2 J	5 U	3 J
Phenanthrene	2	240	1,500	8 J	9 J	10 U	26	10 U	17
Total LPAHs[a]	NA	552	3,160	13.5	19	5	42	5	42
Benz(a)anthracene	2	261	1,600	6 J	12	10 U	27	10 U	30
Benzo(a)pyrene	2	430	1,600	8 J	32	10 U	73	10 U	67
Benzo(b)fluoranthene	2	NP	NP	7 J	36	10 U	62	10 U	120
Benzo(g,h,i)perylene	1	NP	NP	6	21	1 J	61	5 U	46
Benzo(k)fluoranthene	2	NP	NP	6 J	24	10 U	43	10 U	43
Chrysene	3	384	2,800	6 J	13	10 U	38	10 U	26
Dibenz(a,h)anthracene	1	63.4	260	5 U	5 J	5 U	9	5 U	15 J
Fluoranthene	2	600	5,100	11	24	2 J	67	10 U	43
Indeno(1,2,3-c,d)pyrene	1	NP	NP	12	49	3 J	130	5 U	150 J
Pyrene	3	240	2,600	15	66	10 U	93	10 U	230
Total HPAHs[b]	NA	1,700	9,600	77.5	282	13.5	603	9.5	770
Total PAHs[c]	NA	4,022	44,792	91	301	18.5	645	14.5	812

(table continues)

Table 5-14 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH S1S6/ C001SC46/ (2.4–7 ft)	S1S7/ C001SC49/ (0.5–4 ft)	S1S7/ C001SC50/ (4–7 ft)	S1S8/ C001SC51/ (0.5–3.8 ft)	S1S8/ C001SC52/ (3.8–6.8 ft)	S1S9/ C001SC53/ (0.5–3.8 ft)
Acenaphthene	2	16	500	10 U	10 U	10 U	5 J	10 UJ	10 UJ
Acenaphthylene	2	44	640	10 U	3 J	10 U	11	10 U	10 U
Anthracene	1	85.3	1,100	5 U	6	5 U	21	5 U	5 U
Fluorene	2	19	540	10 U	10 U	10 U	3 J	10 U	10 U
Naphthalene	1	160	2,100	5 U	1 J	5 U	2 J	5 U	1 J
Phenanthrene	2	240	1,500	10 U	11	10 U	45	10 U	10 U
Total LPAHs[a]	NA	552	3,160	5	23	5	87	5	5.5
Benz(a)anthracene	2	261	1,600	10 U	15	10 U	160	2 J	4 J
Benzo(a)pyrene	2	430	1,600	10 U	32	10 U	200	10 U	10 U
Benzo(b)fluoranthene	2	NP	NP	10 U	34	10 U	320	10 U	10 U
Benzo(g,h,i)perylene	1	NP	NP	5 U	21	5 U	140	5 U	11 U
Benzo(k)fluoranthene	2	NP	NP	10 U	24	10 U	210	10 U	10 U
Chrysene	3	384	2,800	10 U	18	10 U	200	10 U	5 J
Dibenz(a,h)anthracene	1	63.4	260	5 U	5 J	5 U	37	5 U	5 U
Fluoranthene	2	600	5,100	10 U	31	10 U	180	10 U	10 U
Indeno(1,2,3-c,d)pyrene	1	NP	NP	5 U	47	5 U	250	6 U	20 U
Pyrene	3	240	2,600	10 U	86	10 U	1,200 D[d]	4 J	12
Total HPAHs[b]	NA	1,700	9,600	9.5	313	9.5	2,897	13	26.5
Total PAHs[c]	NA	4,022	44,792	14.5	336	14.5	2,984	18	32

(table continues)

Table 5-14 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 1, UPPER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH			STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/ SAMPLE NUMBER/ DEPTH		
				S1S9/ C001SC54/ (3.8–6.5 ft)	S1S10/ C001SC55/ (0.5–3 ft)	S1S10/ C001SC56/ (3–7 ft)	S2S1/ C001SC16/ (0.5–4 ft)	S2S1/ C001SC17/ (4–7 ft)	S2S2/ C001SC26/ (0.5–4 ft)
Acenaphthene	2	16	500	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Acenaphthylene	2	44	640	10 UJ	10 U	10 U	3 J	10 U	10 U
Anthracene	1	85.3	1,100	5 UJ	5 U	5 U	4 J	5 U	1 J
Fluorene	2	19	540	10 UJ	10 U	10 U	10 U	10 U	10 U
Naphthalene	1	160	2,100	5 UJ	1 J	5 U	2 J	5 U	5 U
Phenanthrene	2	240	1,500	10 UJ	10 U	10 U	12	10 U	5 J
Total LPAHs[a]	NA	552	3,160	5	5.5	5	23	5	9.5
Benz(a)anthracene	2	261	1,600	10 UJ	4 J	10 U	16	2 J	6 J
Benzo(a)pyrene	2	430	1,600	10 UJ	10 U	10 U	47	3 J	10 J
Benzo(b)fluoranthene	2	NP	NP	10 UJ	10 U	10 U	49	2 J	10
Benzo(g,h,i)perylene	1	NP	NP	5 UJ	10 U	5 U	47	4 J	13
Benzo(k)fluoranthene	2	NP	NP	10 UJ	10 U	10 U	32	10 U	7 J
Chrysene	3	384	2,800	10 UJ	4 J	10 U	23	10 U	7 J
Dibenz(a,h)anthracene	1	63.4	260	5 UJ	5 U	5 U	7	5 U	2 J
Fluoranthene	2	600	5,100	10 UJ	10 U	10 U	26	4 J	15
Indeno(1,2,3-c,d)pyrene	1	NP	NP	5 UJ	18 U	5 U	83 J	6 J	35 J
Pyrene	3	240	2,600	10 UJ	15	10 U	35	5 J	19
Total HPAHs[b]	NA	1,700	9,600	9.5	28.5	9.5	365	29	124
Total PAHs[c]	NA	4,022	44,792	14.5	34	14.5	388	34	133.5

(table continues)

Table 5-14 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH S2S2/ C001SC27/ (4–7 ft)	S2S3/ C001SC57/ (0.5–3.8 ft)	S2S3/ C001SC58/ (3.8–7 ft)	S2S4/ C001SC59/ (0.5–3.5 ft)	S2S4/ C001SC60/ (3.5–7 ft)	S2S5/ C001SC61/ (0.5–3 ft)
Acenaphthene	2	16	500	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Acenaphthylene	2	44	640	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	1	85.3	1,100	5 U	5 U	5 U	5 U	5 U	5 U
Fluorene	2	19	540	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	1	160	2,100	5 U	1 J	5 U	5 U	5 U	5 U
Phenanthrene	2	240	1,500	10 U	10 U	10 U	10 U	10 U	10 U
Total LPAHs[a]	NA	552	3,160	5	5.5	5	5	5	5
Benz(a)anthracene	2	261	1,600	10 U	3 J	10 U	2 J	10 U	10 U
Benzo(a)pyrene	2	430	1,600	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	2	NP	NP	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	1	NP	NP	5 U	8 U	5 U	9 U	5 U	8 U
Benzo(k)fluoranthene	2	NP	NP	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	3	384	2,800	10 U	3 J	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	1	63.4	260	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	2	600	5,100	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-c,d)pyrene	1	NP	NP	1 J	13 U	5 U	20 U	10 U	12 U
Pyrene	3	240	2,600	10 U	9 J	10 U	5 J	10 U	6 J
Total HPAHs[b]	NA	1,700	9,600	10	20.5	9.5	14	9.5	14
Total PAHs[c]	NA	4,022	44,792	15	25.5	14.5	19	14.5	19

(table continues)

Table 5-14 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH					
				S2S5/ C001SC62/ (3–7 ft)	S2S6/ C001SC63/ (0.5–3 ft)	S2S6/ C001SC64/ (3–7 ft)	S2S7/ C001SC65/ (0.5–3 ft)	S2S7/ C001SC66/ (3–7 ft)	S2S8/ C001SC32/ (0.5–5.5 ft)
Acenaphthene	2	16	500	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Acenaphthylene	2	44	640	10 U	10 U	10 U	2 J	10 U	10 U
Anthracene	1	85.3	1,100	5 U	5 U	5 U	5 U	5 U	5 U
Fluorene	2	19	540	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	1	160	2,100	5 U	5 U	5 U	2 J	1 J	5 U
Phenanthrene	2	240	1,500	10 U	10 U	10 U	10 U	10 U	4 J
Total LPAHs[a]	NA	552	3,160	5	5	5	7.5	5.5	8
Benz(a)anthracene	2	261	1,600	10 U	10 U	10 U	12	4 J	4 J
Benzo(a)pyrene	2	430	1,600	10 UJ	10 U	10 U	27	10 U	9 J
Benzo(b)fluoranthene	2	NP	NP	10 UJ	10 U	10 U	36	10 U	8 J
Benzo(g,h,i)perylene	1	NP	NP	13 UJ	5 U	5 U	28 U	13 U	7
Benzo(k)fluoranthene	2	NP	NP	10 UJ	10 U	10 U	26 U	10 U	5 J
Chrysene	3	384	2,800	10 U	10 U	10 U	13	5 J	4 J
Dibenz(a,h)anthracene	1	63.4	260	5 UJ	5 U	5 U	5 U	5 U	1 J
Fluoranthene	2	600	5,100	10 U	10 U	10 U	17	11	10 J
Indeno(1,2,3-c,d)pyrene	1	NP	NP	20 UJ	7 U	5 U	51	22 U	20 J
Pyrene	3	240	2,600	7 J	7 J	10 U	22	15	10 J
Total HPAHs[b]	NA	1,700	9,600	15	15	9.5	180	39.5	78
Total PAHs[c]	NA	4,022	44,792	20	20	14.5	187.5	45	86

(table continues)

Table 5-14 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH					
				S2S8/ C001SC33/ (5.5–7 ft)	S2S9/ C001SC30/ (0.5–3 ft)	S2S9/ C001SC31/ (3–7 ft)	S2S10/ C001SC28/ (0.5–3 ft)	S2S10/ C001SC29/ (3–7 ft)	S2S11/ C001SC24/ (0.5–3.5 ft)
Acenaphthene	2	16	500	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	2	44	640	10 U	3 J	10 U	10 U	10 U	10 U
Anthracene	1	85.3	1,100	5 U	5	1 J	5 U	5 U	5 U
Fluorene	2	19	540	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	1	160	2,100	5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene	2	240	1,500	10 U	11	3 J	4 J	10 U	10 U
Total LPAHs[a]	NA	552	3,160	5	21.5	7.5	8	5	5
Benz(a)anthracene	2	261	1,600	10 U	16	3 J	5 J	10 U	10 U
Benzo(a)pyrene	2	430	1,600	10 U	43	7 J	9 J	10 U	3 J
Benzo(b)fluoranthene	2	NP	NP	10 U	56	9 J	8 J	10 U	5 J
Benzo(g,h,i)perylene	1	NP	NP	5 U	33	6	11	1 J	3 J
Benzo(k)fluoranthene	2	NP	NP	10 U	30	5 J	5 J	10 U	3 J
Chrysene	3	384	2,800	10 U	17	10 U	6 J	10 U	10 U
Dibenz(a,h)anthracene	1	63.4	260	5 U	8 J	1 J	1 J	5 U	5 U
Fluoranthene	2	600	5,100	10 U	22	5 J	13	10 U	3 J
Indeno(1,2,3-c,d)pyrene	1	NP	NP	2 J	110 J	22 J	31 J	3 J	11 J
Pyrene	3	240	2,600	10 U	31	7 J	16	10 U	4 J
Total HPAHs[b]	NA	1,700	9,600	11	366	66.5	105	12.5	35
Total PAHs[c]	NA	4,022	44,792	16	387.5	74	113	17.5	40

(table continues)

Table 5-14 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH					
				S2S11/ C001SC25/ (3.5–7 ft)	S2S12/ C001SC22/ (0.5–3.5 ft)	S2S12/ C001SC23/ (3–7 ft)	S2S13/ C001SC20/ (0.5–3.5 ft)	S2S13/ C001SC21/ (3.5–7 ft)	S2S14/ C001SC18/ (0.5–4 ft)
Acenaphthene	2	16	500	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	2	44	640	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	1	85.3	1,100	2 J	5 U	2 J	2 J	5 U	2 J
Fluorene	2	19	540	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	1	160	2,100	5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene	2	240	1,500	5 J	10 U	4 J	4 J	2 J	7 J
Total LPAHs[a]	NA	552	3,160	10.5	5	9.5	9.5	6	12.5
Benz(a)anthracene	2	261	1,600	6 J	10 U	5 J	8 J	2 J	11
Benzo(a)pyrene	2	430	1,600	14	10 U	10	21	3 J	28
Benzo(b)fluoranthene	2	NP	NP	12	10 U	9 J	27	3 J	32
Benzo(g,h,i)perylene	1	NP	NP	12	2 J	10	14	3 J	18
Benzo(k)fluoranthene	2	NP	NP	7 J	10 U	6 J	15	4 J	16
Chrysene	3	384	2,800	7 J	10 U	6 J	8 J	10 U	14
Dibenz(a,h)anthracene	1	63.4	260	1 J	5 U	1 J	4 J	5 U	4 J
Fluoranthene	2	600	5,100	17	3 J	13	12	5 J	24
Indeno(1,2,3-c,d)pyrene	1	NP	NP	39 J	5 J	31 J	52 J	7 J	65 J
Pyrene	3	240	2,600	23	3 J	16	15	7 J	30
Total HPAHs[b]	NA	1,700	9,600	138	19	107	176	36	242
Total PAHs[c]	NA	4,022	44,792	148.5	24	116.5	185.5	42	254.5

(table continues)

Table 5-14 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 2, LOWER BOAT CHANNEL SAMPLING LOCATION/SAMPLE NUMBER/DEPTH S2S14/ C001SC19/ (4–7 ft)	S2S15/ C001SC14/ (0.5–3 ft)	S2S15/ C001SC15/ (3–7 ft)	S2S16/ C001SC11/ (0.5–3 ft)	S2S16/ C001SC12/ (3–7 ft)	S2S16/ C001SC13/ (3–7 ft)
Acenaphthene	2	16	500	10 U	10 U	10 U	5 J	10 U	10 U
Acenaphthylene	2	44	640	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	1	85.3	1,100	5 U	1 J	5 U	19	5 U	5 U
Fluorene	2	19	540	10 U	10 U	10 U	5 J	10 U	10 U
Naphthalene	1	160	2,100	5 U	1 J	5 U	1 J	5 U	5 U
Phenanthrene	2	240	1,500	10 U	7 J	10 U	47	10 U	10 U
Total LPAHs[a]	NA	552	3,160	5	12	5	78	5	5
Benz(a)anthracene	2	261	1,600	10 U	7 J	10 U	52	10 U	10 U
Benzo(a)pyrene	2	430	1,600	3 J	15	10 U	47	10 U	10 U
Benzo(b)fluoranthene	2	NP	NP	3 J	14	10 U	36	10 U	10 U
Benzo(g,h,i)perylene	1	NP	NP	2 J	16	5 U	24	5 U	5 U
Benzo(k)fluoranthene	2	NP	NP	10 U	9 J	10 U	35	10 U	10 U
Chrysene	3	384	2,800	10 U	9 J	10 U	55	10 U	10 U
Dibenz(a,h)anthracene	1	63.4	260	5 U	2 J	5 U	4 J	5 U	5 U
Fluoranthene	2	600	5,100	4 J	16	10 U	97	10 U	10 U
Indeno(1,2,3-c,d)pyrene	1	NP	NP	8 J	29 J	1 J	51 J	5 UJ	1 J
Pyrene	3	240	2,600	5 J	21	10 U	99	10 U	10 U
Total HPAHs[b]	NA	1,700	9,600	29	138	10	500	9.5	10
Total PAHs[c]	NA	4,022	44,792	34	150	15	578	14.5	15

(table continues)

Table 5-14 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER/DEPTH S3S1/ C001SC07/ (0.5–2.5 ft)	S3S1/ C001SC08/ (2.5–7 ft)	S3S2/ C001SC05/ (0.5–4 ft)	S3S2/ C001SC06/ (4–7 ft)	S3S3/ C001SC09/ (0.5–4 ft)	S3S3/ C001SC10/ (4–7 ft)
Acenaphthene	2	16	500	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	2	44	640	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	1	85.3	1,100	5 U	5 U	2 J	5 U	2 J	5 U
Fluorene	2	19	540	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	1	160	2,100	5 U	5 U	5 U	5 U	5 U	5 U
Phenanthrene	2	240	1,500	10 U	10 U	4 J	10 U	4 J	10 U
Total LPAHs[a]	NA	552	3,160	5	5	9.5	5	9.5	5
Benz(a)anthracene	2	261	1,600	10 U	10 U	6 J	10 U	9 J	10 U
Benzo(a)pyrene	2	430	1,600	10 U	10 U	13	10 U	13	10 U
Benzo(b)fluoranthene	2	NP	NP	10 U	10 U	15	10 U	17	10 U
Benzo(g,h,i)perylene	1	NP	NP	5 U	5 U	13	1 J	12	5 U
Benzo(k)fluoranthene	2	NP	NP	10 U	10 U	11	10 U	15	10 U
Chrysene	3	384	2,800	10 U	10 U	7 J	10 U	11	10 U
Dibenz(a,h)anthracene	1	63.4	260	5 U	5 U	2 J	5 U	3 J	5 U
Fluoranthene	2	600	5,100	10 U	10 U	9 J	10 U	11	10 U
Indeno(1,2,3-c,d)pyrene	1	NP	NP	1 J	5 U	24	2 J	25	5 UJ
Pyrene	3	240	2,600	10 U	10 U	13	10 U	13	10 U
Total HPAHs[b]	NA	1,700	9,600	10	9.5	113	11.5	129	9.5
Total PAHs[c]	NA	4,022	44,792	15	14.5	122.5	16.5	138.5	14.5

(table continues)

Table 5-14 (continued)

Analyte	MDL	ERL Values	ERM Values	STRATUM 3, REFERENCE AREA SAMPLING LOCATION/SAMPLE NUMBER/DEPTH S3S4/ C001SC03/ (0.5–3 ft)	S3S4/ C001SC04/ (3–7 ft)	S3S5/ C001SC01/ (0.5–3 ft)	S3S5/ C001SC02/ (3–8 ft)
Acenaphthene	2	16	500	10 U	10 U	10 U	10 U
Acenaphthylene	2	44	640	3 J	10 U	10 U	10 U
Anthracene	1	85.3	1,100	3 J	5 U	2 J	5 U
Fluorene	2	19	540	10 U	10 U	10 U	10 U
Naphthalene	1	160	2,100	1 J	5 U	1 J	5 U
Phenanthrene	2	240	1,500	7 J	10 U	6 J	10 U
Total LPAHs[a]	NA	552	3,160	16	5	12	5
Benz(a)anthracene	2	261	1,600	17	10 U	12	10 U
Benzo(a)pyrene	2	430	1,600	38	10 U	27	10 U
Benzo(b)fluoranthene	2	NP	NP	34	10 U	25	10 U
Benzo(g,h,i)perylene	1	NP	NP	31	5 U	21	5 U
Benzo(k)fluoranthene	2	NP	NP	24	10 U	18	10 U
Chrysene	3	384	2,800	19	10 U	14	10 U
Dibenz(a,h)anthracene	1	63.4	260	5 J	5 U	3 J	5 U
Fluoranthene	2	600	5,100	19	10 U	18	10 U
Indeno(1,2,3-c,d)pyrene	1	NP	NP	58 J	5 U	40	5 UJ
Pyrene	3	240	2,600	25	10 U	24	10 U
Total HPAHs[b]	NA	1,700	9,600	270	9.5	202	9.5
Total PAHs[c]	NA	4,022	44,792	286	14.5	214	14.5

Notes:

[a] total LPAHs equal to sum of acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, and phenanthrene; all nondetects included in summation as one-half MDL

[b] total HPAHs equal to sum of benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, indeno(1,2,3-c,d)pyrene, and pyrene; all nondetects are included in summations as one-half the MDL

[c] total PAHs equal to sum of LPAHs and HPAHs

[d] shading indicates reported concentration above ERL

(table continues)

Table 5-14 (continued)

Acronyms/Abbreviations:
ERL – effects-range low
ERM – effects-range median
ft – foot
HPAH – high-molecular-weight polynuclear aromatic hydrocarbon
LPAH – low-molecular-weight polynuclear aromatic hydrocarbon
MDL – method detection limit
NP – not published
PAH – polynuclear aromatic hydrocarbon

Laboratory Flag:
D – dilution

Review Qualifiers:
J – estimated value
U – compound or element was analyzed for but not detected above the sample quantitation limit
UJ – analyzed for but not detected above the sample quantitation limit and the quantitation limit is an estimated value