Appendix A. Data Tables

Acronyms and Abbreviations	
BHC	hexachlorocyclohexane
CSL	cleanup screening level
DMMP	Dredged Material Management Program
dw	dry weight
HPAH	high-molecular-weight polycyclic aromatic hydrocarbon
ID	identification
LAET	lowest apparent effects threshold

Acronyms and Abbreviations	
2LAET	second lowest apparent effects threshold
LDW	Lower Duwamish Waterway
LPAH	low-molecular-weight polycyclic aromatic hydrocarbon
ML	maximum level
na	not analyzed
nv	no value
OC	organic carbon
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
pcf	pounds per cubic foot
SL	screening level
SMS	Washington State Sediment Management Standards
SQS	sediment quality standard
SVOC	semivolatile organic compound
TOC	total organic carbon
VOC	volatile organic compound
dw	dry weight

Data Qualifiers	
J	not detected at reporting limit shown
U	estimated concentration
UJ	not detected at estimated reporting limit shown

Atterberg Classifications	
CH	Inorganic clays of high plasticity, fat clays
CL	Inorganic clays of low to medium plasticity; gravelly clays, silty clays, sandy clays, lean clays
MH	Inorganic silts, micaceous or diatomaceous fine sands or silt, elastic silts
ML	Inorganic silts, very fine sands, rock flour, silty or clayey fine sands
OH	Organic clays of medium plasticity
OL	Organic silts and organic silt-clays of low plasticity

A-1. CONCENTRATIONS OF ALL ANALYTES AND RESULTS FOR GEOTECHNICAL ANALYSES IN LDW SUBSURFACE SEDIMENT SAMPLES, 1- AND 2-FT SAMPLE INTERVALS

Table A-1a. 1- and 2-ft intervals, samples SC1 through SC5

1- AND 2-FT INTERVALS		LDW-SC1			LDW-SC2				LDW-SC3		LDW-SC4				LDW-SC5		
ANALYTE	UNIT	LDW-SC1-0-2	LDW-SC1-2-4	LDW-SC1-4-6	LDW-SC2-0-2	LDW-SC2-2-4	LDW-SC2-4-6	LDW-SC2-10.7-12	LDW-SC3-0-2	LDW-SC3-2-4	LDW-SC4-0-1	LDW-SC4-1-2	LDW-SC4-2-4	LDW-SC4-4-6	LDW-SC5-0-1	LDW-SC5-1-2.2	LDW-SC5-2.2-4
Metals and trace elements																	
Antimony	mg/kg dw	9 UJ	6 UJ	na	40 J	40 UJ	30 J	6 UJ	*6 UJ*	7 UJ	*8 UJ*	9 UJ	7 UJ	na	*7 UJ*	8 UJ	6 UJ
Arsenic	mg/kg dw	22	10	na	190	210	270	6 U	*6 U*	7 U	*18*	63	14	na	*17*	14	6 U
Cadmium	mg/kg dw	2.0	0.4	na	3.4	5	3.9	0.2 U	*0.3 U*	0.3 U	*0.7*	2.0	1.0	na	*0.6*	0.5	0.3 U
Chromium	mg/kg dw	74.3	21.1	na	43	52	22	10.7	*12.4*	10.4	*27.8*	40.2	25.9	na	*28.2*	21.3	11.0
Cobalt	mg/kg dw	10	5.3	na	9	9	9.0	3.6	*4.4*	3.8	*7.7*	10.2	5.6	na	*6.9*	6.4	4.0
Copper	mg/kg dw	111	25.9	na	126 J	134 J	123	10.5	*15.1*	15.2	*90.2 J*	146 J	37.1 J	na	*78.5*	77.1	29.3
Lead	mg/kg dw	149 J	23 J	na	569	1,050	1,210	2 U	*3 U*	3 U	*92*	320	123	na	*86*	74	13
Mercury	mg/kg dw	0.61	0.21	na	0.21 J	0.28 J	na	na	*0.07 U*	0.06 U	*0.53 J*	0.43 J	0.22 J	na	*0.27*	0.51	0.10
Molybdenum	mg/kg dw	3.4	0.7	na	6	11	6	0.6 U	*0.6 U*	0.7 U	*2.1*	6.8	1.6	na	*3.2*	2.5	0.7
Nickel	mg/kg dw	32	10	na	23	17	13	7	*9*	7	*20*	23	12	na	*18*	16	9
Selenium	mg/kg dw	9 U	6 U	na	20 U	40 U	10 U	6 U	*6 U*	7 U	*8 U*	9 U	7 U	na	*7 U*	8 U	6 U
Silver	mg/kg dw	3.3	0.7	na	2	5	4.1	0.4 U	*0.4 U*	0.4 U	*0.5 U*	1.6	0.9	na	*0.4 U*	0.5 U	0.4 U
Thallium	mg/kg dw	9 U	6 U	na	20 U	40 U	10 U	6 U	*6 U*	7 U	*8 U*	9 U	7 U	na	*7 U*	8 U	6 U
Vanadium	mg/kg dw	74.1	44.2	na	37	26	39.8	37.2	*46.2*	35.7	*55.2*	65.2	54.8	na	*53.6*	58.1	38.0
Zinc	mg/kg dw	212 J	56.4 J	na	748	604	1,430	21.5	*22.9*	20.9	*120*	288	89.0	na	*145*	100	37.1
Organometals																	
Monobutyltin as ion	µg/kg dw	10	4.0 U	na	na	na	na	na	3.9 U	4.0 U	3.9 U	6.1	2.6 U	na	na	na	na
Dibutyltin as ion	µg/kg dw	34	5.6 U	na	na	na	na	na	5.5 U	5.6 U	18	31	3.7 U	na	na	na	na
Tributyltin as ion	µg/kg dw	64	3.8 U	na	na	na	na	na	3.7 U	3.8 U	190	190	10	na	na	na	na
PAHs																	
1-Methylnaphthalene	µg/kg dw	60 U	20 U	na	25	37	66 U	66 U	20 U	20 U	20 U	22 U	200	na	20 U	44	20 U
2-Chloronaphthalene	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC1			LDW-SC2				LDW-SC3		LDW-SC4				LDW-SC5		
ANALYTE	UNIT	LDW-SC1-0-2	LDW-SC1-2-4	LDW-SC1-4-6	LDW-SC2-0-2	LDW-SC2-2-4	LDW-SC2-4-6	LDW-SC2-10.7-12	LDW-SC3-0-2	LDW-SC3-2-4	LDW-SC4-0-1	LDW-SC4-1-2	LDW-SC4-2-4	LDW-SC4-4-6	LDW-SC5-0-1	LDW-SC5-1-2.2	LDW-SC5-2.2-4
2-Methylnaphthalene	µg/kg dw	60 U	20 U	na	42	62	66 U	66 U	20 U	20 U	21	24	200	na	23	55	20 U
Acenaphthene	µg/kg dw	60 U	20 U	na	140	78	66 U	66 U	20 U	20 U	18 J	36	190	na	26	150	20 U
Acenaphthylene	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	14 J	15 J	20 U	na	61	140	18 J
Anthracene	µg/kg dw	69	14 J	na	84	86	66 U	66 U	20 U	20 U	59	78	26	na	330	560	62
Benzo(a)anthracene	µg/kg dw	190	20	na	85	120	66 U	66 U	20 U	20 U	180	200	48	na	500	1,200	160
Benzo(a)pyrene	µg/kg dw	350	52	na	40	62 J	66 U	66 U	20 U	20 U	200	250	46	na	640	1,400	240
Benzo(b)fluoranthene	µg/kg dw	630	85	na	82	140 J	66 U	66 U	20 U	20 U	400	400	72	na	810	1,500	290
Benzo(g,h,i)perylene	µg/kg dw	60 J	11 J	na	22 U	15 J	66 U	66 U	20 U	20 U	39	48	20 U	na	160	320	96
Benzo(k)fluoranthene	µg/kg dw	490	74	na	63	120 J	66 U	66 U	20 U	20 U	290	360	65	na	680	1,300	210
Total benzofluoranthenes	µg/kg dw	1,120	159	na	145	260 J	66 U	66 U	20 U	20 U	690	760	137	na	1,490	2,800	500
Chrysene	µg/kg dw	310	33	na	95	170	66 U	66 U	20 U	20 U	260	310	64	na	670	1,300	270
Dibenzo(a,h)anthracene	µg/kg dw	60 U	20 U	na	22 U	23 UJ	6.6 U	6.6 U	20 U	20 U	12 J	15 J	20 U	na	40	84	24
Dibenzofuran	µg/kg dw	60 U	20 U	na	67	58	66 U	66 U	20 U	20 U	20	26	34	na	29	70	20 U
Fluoranthene	µg/kg dw	270	40	na	510	490	70	66 U	20 U	20 U	340	560	150	na	990	3,100	140
Fluorene	µg/kg dw	60 U	20 U	na	88	110	66 U	66 U	20 U	20 U	24	42	48	na	89	160	22
Indeno(1,2,3-cd)pyrene	µg/kg dw	68	10 J	na	22 U	13 J	66 U	66 U	20 U	20 U	43	55	20 U	na	190	390	100
Naphthalene	µg/kg dw	60 U	20 U	na	47	43	60 J	66 U	20 U	20 U	79	190	1,500	na	25	140	16 J
Phenanthrene	µg/kg dw	110	25	na	290	360	81	66 U	20 U	20 U	130	250	81	na	500	1,300	100
Pyrene	µg/kg dw	790	160	na	330	370	70	66 U	20 U	20 U	360	500	160	na	1,000	2,500	820
Total HPAH	µg/kg dw	3,160 J	490 J	na	1,210	1,500 J	140	66 U	20 U	20 U	2,120 J	2,700 J	610	na	5,700	13,100	2,350
Total LPAH	µg/kg dw	180	39 J	na	650	680	141 J	66 U	20 U	20 U	320 J	610 J	1,800	na	1,030	2,500	220 J
Carcinogenic PAHs	µg/kg dw	500	75 J	na	69	110 J	48 U	48 U	18 U	18 U	300 J	360 J	70	na	880	1,900	330
Total PAH	µg/kg dw	3,340 J	520 J	na	1,850	2,180 J	281 J	66 U	20 U	20 U	2,450 J	3,310 J	2,500	na	6,700	15,500	2,570 J
Phthalates																	
Bis(2-ethylhexyl)phthalate	µg/kg dw	1,800	95	na	900	1,800	92	66 U	42 U	20 U	420	830	330	na	390	20 U	20 U
Butyl benzyl phthalate	µg/kg dw	71	16	na	6.7 U	7.0 U	6.6 U	6.6 U	6.0 U	5.9 U	20	34	6.0 U	na	35	31	6.0 U
Diethyl phthalate	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
Dimethyl phthalate	µg/kg dw	60 U	20 U	na	22 U	23 U	6.6 U	6.6 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC1			LDW-SC2				LDW-SC3		LDW-SC4				LDW-SC5		
ANALYTE	UNIT	LDW-SC1-0-2	LDW-SC1-2-4	LDW-SC1-4-6	LDW-SC2-0-2	LDW-SC2-2-4	LDW-SC2-4-6	LDW-SC2-10.7-12	LDW-SC3-0-2	LDW-SC3-2-4	LDW-SC4-0-1	LDW-SC4-1-2	LDW-SC4-2-4	LDW-SC4-4-6	LDW-SC5-0-1	LDW-SC5-1-2.2	LDW-SC5-2.2-4
Di-n-butyl phthalate	µg/kg dw	45 J	21	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	32 U	20 U	na	30 U	21 U	20 U
Di-n-octyl phthalate	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
Other SVOCs																	
1,2,4-Trichlorobenzene	µg/kg dw	6.0 U	6.0 U	na	6.7 U	22 UJ	6.6 U	6.6 U	6.0 U	5.9 U	5.9 U	6.7 U	6.0 UJ	na	6.0 U	5.9 UJ	6.0 U
1,2-Dichlorobenzene	µg/kg dw	6.0 U	6.0 U	na	6.7 U	12	6.6 U	6.6 U	6.0 U	5.9 U	5.9 U	6.7 U	6.0 U	na	6.0 U	5.9 U	6.0 U
1,3-Dichlorobenzene	µg/kg dw	60 U	20 U	na	22 U	23 U	6.6 U	6.6 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
1,4-Dichlorobenzene	µg/kg dw	6.0 U	6.0 U	na	6.7 U	5.6 J	6.6 U	6.6 U	6.0 U	5.9 U	5.9 U	4.7 J	6.0 U	na	6.0 U	5.9 U	6.0 U
2,4,5-Trichlorophenol	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 U	98 U	99 U	110 U	100 U	na	100 U	98 U	100 U
2,4,6-Trichlorophenol	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 U	98 U	99 U	110 U	100 U	na	100 U	98 U	100 U
2,4-Dichlorophenol	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 U	98 U	99 U	110 U	100 U	na	100 U	98 U	100 U
2,4-Dimethylphenol	µg/kg dw	6.0 U	6.0 U	na	18 U	6.3 J	9.2	6.6 U	6.0 U	5.9 U	18 U	17 U	46	na	18 UJ	9.5 J	17 UJ
2,4-Dinitrophenol	µg/kg dw	600 U	200 U	na	220 U	230 U	660 U	660 U	200 UJ	200 UJ	200 U	220 U	200 U	na	200 U	200 U	200 U
2,4-Dinitrotoluene	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 U	98 U	99 U	110 U	100 U	na	100 U	98 U	100 U
2,6-Dinitrotoluene	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 U	98 U	99 U	110 U	100 U	na	100 U	98 U	100 U
2-Chlorophenol	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
2-Methylphenol	µg/kg dw	6.0 U	6.0 U	na	6.7 U	4.2 J	6.6 U	6.6 U	6.0 U	5.9 U	5.9 U	6.7 U	6.0 U	na	6.0 U	10 J	6.0 U
2-Nitroaniline	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 U	98 U	99 U	110 U	100 U	na	100 U	98 U	100 U
2-Nitrophenol	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 U	98 U	99 U	110 U	100 U	na	100 U	98 U	100 U
3,3'-Dichlorobenzidine	µg/kg dw	300 UJ	99 UJ	na	110 UJ	120 UJ	330 U	330 U	99 UJ	98 UJ	99 UJ	110 UJ	100 UJ	na	100 UJ	98 UJ	100 UJ
3-Nitroaniline	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 U	98 U	99 U	110 U	100 U	na	100 UJ	98 UJ	100 UJ
4,6-Dinitro-o-cresol	µg/kg dw	600 U	200 U	na	220 UJ	230 UJ	660 U	660 U	200 U	200 U	200 UJ	220 UJ	200 UJ	na	200 U	200 U	200 U
4-Bromophenyl phenyl ether	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
4-Chloro-3-methylphenol	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 U	98 U	99 U	110 U	100 U	na	100 U	98 U	100 U
4-Chloroaniline	µg/kg dw	300 UJ	99 UJ	na	110 UJ	120 UJ	330 U	330 U	99 UJ	98 UJ	99 UJ	110 UJ	100 UJ	na	100 UJ	98 UJ	100 UJ
4-Chlorophenyl phenyl ether	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
4-Methylphenol	µg/kg dw	60 U	20 U	na	13 J	41	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	24	20 U
4-Nitroaniline	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 U	98 U	99 U	110 U	100 U	na	100 U	98 U	100 U
4-Nitrophenol	µg/kg dw	300 U	99 U	na	110 U	120 U	330 U	330 U	99 UJ	98 UJ	99 U	110 U	100 U	na	100 U	98 U	100 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC1			LDW-SC2				LDW-SC3		LDW-SC4				LDW-SC5		
ANALYTE	UNIT	LDW-SC1-0-2	LDW-SC1-2-4	LDW-SC1-4-6	LDW-SC2-0-2	LDW-SC2-2-4	LDW-SC2-4-6	LDW-SC2-10.7-12	LDW-SC3-0-2	LDW-SC3-2-4	LDW-SC4-0-1	LDW-SC4-1-2	LDW-SC4-2-4	LDW-SC4-4-6	LDW-SC5-0-1	LDW-SC5-1-2.2	LDW-SC5-2.2-4
Aniline	µg/kg dw	60 UJ	20 UJ	na	22 UJ	23 UJ	66 U	66 U	20 UJ	20 UJ	20 UJ	22 UJ	20 UJ	na	20 UJ	20 UJ	20 UJ
Benzoic acid	µg/kg dw	100	72	na	290 UJ	420 J	590 U	590 U	58 J	59 U	400 J	400 J	280 UJ	na	82 U	150 U	60 U
Benzyl alcohol	µg/kg dw	30 U	30 U	na	44	35 UJ	33 U	33 U	30 U	29 U	30 U	34 U	30 U	na	30 U	30 U	30 U
bis(2-chloroethoxy) methane	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
bis(2-chloroethyl)ether	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
bis(2-chloroisopropyl) ether	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
Hexachlorobenzene	µg/kg dw	6.0 U	6.0 U	na	6.7 U	7.0 U	6.6 U	6.6 U	6.0 U	5.9 U	5.9 U	6.7 U	6.0 U	na	6.0 U	5.9 U	6.0 U
Hexachlorobutadiene	µg/kg dw	6.0 U	6.0 U	na	6.7 U	7.0 U	6.6 U	6.6 U	6.0 U	5.9 U	5.9 U	6.7 U	6.0 U	na	6.0 U	5.9 U	6.0 U
Hexachlorocyclopenta-diene	µg/kg dw	300 UJ	99 UJ	na	110 UJ	120 UJ	330 U	330 U	99 U	98 U	99 UJ	110 UJ	100 UJ	na	100 U	98 U	100 U
Hexachloroethane	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
Isophorone	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
Nitrobenzene	µg/kg dw	60 U	20 U	na	22 U	23 U	66 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
N-Nitrosodimethylamine	µg/kg dw	30 U	30 U	na	34 U	35 U	33 U	33 U	30 U	29 U	30 U	34 U	30 U	na	30 U	30 U	30 U
N-Nitroso-di-n-propylamine	µg/kg dw	32	30 U	na	34 U	35 U	33 U	33 U	30 U	29 U	30 U	34 U	30 U	na	30 UJ	30 UJ	30 UJ
N-Nitrosodiphenylamine	µg/kg dw	31 U	13 U	na	270 U	580 U	83 U	6.6 U	6.0 U	5.9 U	26 U	170 U	59 U	na	27 U	69 U	9.0 U
Pentachlorophenol	µg/kg dw	30 U	30 U	na	34 U	24 J	46	33 U	30 U	29 U	30 U	21 J	30 U	na	30 U	30 U	30 U
Phenol	µg/kg dw	60 U	20 U	na	36 U	26 U	73 U	66 U	20 U	20 U	39 U	43 U	24 U	na	170	33	20 U
Polychlorinated biphenyls																	
Aroclor-1016	µg/kg dw	200 U	29 U	3.8 U	200 U	390 U	3.9 U	3.8 U	4.0 U	3.9 U	39 U	39 U	39 U	3.9 U	40 U	19 U	3.9 U
Aroclor-1221	µg/kg dw	200 U	29 U	3.8 U	200 U	390 U	3.9 U	3.8 U	4.0 U	3.9 U	39 U	39 U	39 U	3.9 U	40 U	19 U	3.9 U
Aroclor-1232	µg/kg dw	200 U	29 U	3.8 U	200 U	390 U	3.9 U	3.8 U	4.0 U	3.9 U	58 U	39 U	39 U	3.9 U	40 U	19 U	3.9 U
Aroclor-1242	µg/kg dw	630	40	3.8 U	330	1,100	38	3.8 U	4.0 U	3.9 U	39 U	110	130	3.9 U	40 U	19 U	3.9 U
Aroclor-1248	µg/kg dw	200 U	29 U	3.8 U	200 U	390 U	3.9 U	3.8 U	4.0 U	3.9 U	58 U	39 U	39 U	3.9 U	120	19 U	3.9 U
Aroclor-1254	µg/kg dw	1,900	210	3.8 U	760	1,300	90	3.8 U	4.0 U	3.9 U	85	240	320	3.9 U	210	66	3.9 U
Aroclor-1260	µg/kg dw	840	190	3.8 U	290	530	81	3.8 U	4.0 U	3.9 U	58	140	150	3.9 U	180	19 U	3.9 U
Total PCBs	µg/kg dw	3,400	440	3.8 U	1,380	2,900	209	3.8 U	4.0 U	3.9 U	143	490	600	3.9 U	510	66	3.9 U
Pesticides																	

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC1			LDW-SC2				LDW-SC3		LDW-SC4				LDW-SC5		
ANALYTE	UNIT	LDW-SC1-0-2	LDW-SC1-2-4	LDW-SC1-4-6	LDW-SC2-0-2	LDW-SC2-2-4	LDW-SC2-4-6	LDW-SC2-10.7-12	LDW-SC3-0-2	LDW-SC3-2-4	LDW-SC4-0-1	LDW-SC4-1-2	LDW-SC4-2-4	LDW-SC4-4-6	LDW-SC5-0-1	LDW-SC5-1-2.2	LDW-SC5-2.2-4
2,4'-DDD	µg/kg dw	na	na	na	15 U	29 U	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDE	µg/kg dw	na	na	na	70 U	29 U	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDT	µg/kg dw	na	na	na	15 U	29 U	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg dw	na	na	na	15 U	29 U	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg dw	na	na	na	83 U	81 U	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg dw	na	na	na	110 U	140 U	na	na	na	na	na	na	na	na	na	na	na
Total DDTs	µg/kg dw	na	na	na	110 U	140 U	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	na	na	na	7.5 U	14 U	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	na	na	na	15 U	29 U	na	na	na	na	na	na	na	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	na	na	na	15 U	29 U	na	na	na	na	na	na	na	na	na	na	na
alpha-BHC	µg/kg dw	na	na	na	7.5 U	14 U	na	na	na	na	na	na	na	na	na	na	na
beta-BHC	µg/kg dw	na	na	na	7.5 U	14 U	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	na	na	na	7.5 U	14 U	na	na	na	na	na	na	na	na	na	na	na
delta-BHC	µg/kg dw	na	na	na	7.5 U	14 U	na	na	na	na	na	na	na	na	na	na	na
alpha-Chlordane	µg/kg dw	na	na	na	7.5 U	14 U	na	na	na	na	na	na	na	na	na	na	na
gamma-Chlordane	µg/kg dw	na	na	na	37 U	82 U	na	na	na	na	na	na	na	na	na	na	na
alpha-Endosulfan	µg/kg dw	na	na	na	7.5 U	14 U	na	na	na	na	na	na	na	na	na	na	na
beta-Endosulfan	µg/kg dw	na	na	na	15 U	29 U	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg dw	na	na	na	25 U	29 U	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg dw	na	na	na	150 U	29 U	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg dw	na	na	na	15 UJ	29 UJ	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg dw	na	na	na	15 U	29 U	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	na	na	na	7.5 U	14 U	na	na	na	na	na	na	na	na	na	na	na
Heptachlor epoxide	µg/kg dw	na	na	na	57 U	120 U	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg dw	na	na	na	75 U	140 U	na	na	na	na	na	na	na	na	na	na	na
Mirex	µg/kg dw	na	na	na	15 U	29 U	na	na	na	na	na	na	na	na	na	na	na
cis-Nonachlor	µg/kg dw	na	na	na	15 U	29 U	na	na	na	na	na	na	na	na	na	na	na
Oxychlordane	µg/kg dw	na	na	na	53 U	100 U	na	na	na	na	na	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC1			LDW-SC2				LDW-SC3		LDW-SC4				LDW-SC5		
ANALYTE	UNIT	LDW-SC1-0-2	LDW-SC1-2-4	LDW-SC1-4-6	LDW-SC2-0-2	LDW-SC2-2-4	LDW-SC2-4-6	LDW-SC2-10.7-12	LDW-SC3-0-2	LDW-SC3-2-4	LDW-SC4-0-1	LDW-SC4-1-2	LDW-SC4-2-4	LDW-SC4-4-6	LDW-SC5-0-1	LDW-SC5-1-2.2	LDW-SC5-2.2-4
Toxaphene	µg/kg dw	na	na	na	750 U	1,400 U	na	na	na	na	na	na	na	na	na	na	na
trans-Nonachlor	µg/kg dw	na	na	na	15 U	29 U	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	na	na	na	53 U	100 U	na	na	na	na	na	na	na	na	na	na	na
Grain size																	
Fractional % phi >-1 (>2000 µm)	% dw	2.5	1.5	na	8.4	na	na	na	1.6	0.1	22.8	44.4	24.3	na	*4*	4.3	1.9
Fractional % phi -1-0 (1000-2000 µm)	% dw	1.8	1.8	na	1.8	0.2	na	na	1.0	0.3	7.5	2.5	1.9	na	*1.9*	3.7	3.9
Fractional % phi 0-1 (500-1000 µm)	% dw	2.3	12.4	na	4.3	0.4	na	na	1.9	0.3	5.3	2.6	4.4	na	*13.8*	11.7	23.2
Fractional % phi 1-2 (250-500 µm)	% dw	7.5	35.2	na	10.3	0.8	na	na	15.6	4.1	8.4	4.2	19.0	na	*27.2*	22.1	45.2
Fractional % phi 2-3 (125-250 µm)	% dw	11.6	22.4	na	11.1	2.7	na	na	28.6	17.3	7.9	6.4	24.4	na	*11.9*	9.7	14.2
Fractional % phi 3-4 (62.5-125 µm)	% dw	6.9	4.1	na	9.6	11.6	na	na	24.5	23.0	5.8	6.4	8.0	na	*5.9*	4.7	2.1
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	6.8	2.8	na	13.9	19.6	na	na	12.4	19.8	4.3	3.4	0.7	na	*3.6*	4.8	2.0
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	8.7	3.3	na	13.7	22.9	na	na	5.8	14.0	8.6	6.9	4.3	na	*5.7*	7.9	1.5
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	18.2	5.5	na	10.2	17.6	na	na	2.7	7.7	10.5	9.0	4.2	na	*7.3*	8.5	1.5
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	10.3	3.7	na	5.4	8.1	na	na	1.8	4.7	5.9	5.1	3.2	na	*5.8*	7.3	1.5
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	6.6	2.3	na	3.8	6.0	na	na	1.0	2.7	3.9	3.3	1.8	na	*4.0*	4.7	1.0
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	5.4	1.7	na	3.1	4.1	na	na	1.0	2.0	3.1	2.5	1.4	na	*2.7*	3.9	0.7
Fractional % phi 10+ (<0.98 µm)	% dw	11.5	3.5	na	4.4	6.2	na	na	2.2	4.0	6.1	3.2	2.5	na	*6.3*	6.7	1.3
Rocks (total calc'd)	% dw	2.5	1.5	na	8.4	na	na	na	1.6	0.1	22.8	44.4	24.3	na	*4*	4.3	1.9
Sand (total calc'd)	% dw	30.1	75.9	na	37.1	15.7	na	na	71.6	45.0	34.9	22.1	57.7	na	*60.7*	51.9	88.6
Silt (total calc'd)	% dw	44.0	15.3	na	43.2	68.2	na	na	22.7	46.2	29.3	24.4	12.4	na	*22.4*	28.5	6.5
Clay (total calc'd)	% dw	23.5	7.5	na	11.3	16.3	na	na	4.2	8.7	13.1	9.0	5.7	na	*13.0*	15.3	3.0
Fines (percent silt+clay)	% dw	67.5	22.8	na	54.5	84.5	na	na	26.9	54.9	42.4	33.4	18.1	na	*35.4*	43.8	9.5

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC1			LDW-SC2				LDW-SC3		LDW-SC4				LDW-SC5		
ANALYTE	UNIT	LDW-SC1-0-2	LDW-SC1-2-4	LDW-SC1-4-6	LDW-SC2-0-2	LDW-SC2-2-4	LDW-SC2-4-6	LDW-SC2-10.7-12	LDW-SC3-0-2	LDW-SC3-2-4	LDW-SC4-0-1	LDW-SC4-1-2	LDW-SC4-2-4	LDW-SC4-4-6	LDW-SC5-0-1	LDW-SC5-1-2.2	LDW-SC5-2.2-4
Conventional parameters																	
Total organic carbon (TOC)	% dw	2.10	1.60	0.092	0.897	6.29	0.310	0.749	*2.10*	0.669	1.54	1.97	1.73	0.808	1.68	3.93	1.28
Total solids	% ww	54.10	76.30	82.00	64.10	66.40	47.60	76.80	*68.35*	74.40	65.50	58.20	68.70	79.20	66.40	59.40	78.80
Geotechnical																	
Bulk density (dry)	pcf	43.7	96.1	na	na	62.4	na	na	86.9	88.2	52.7	68.5	na	na	68.5	na	103.2
Bulk density (wet)	pcf	93.8	125.3	na	na	104.7	na	na	116.8	118.2	93.1	101.3	na	na	111.2	na	126.5
Moisture	% dw	114.6	30.44	na	na	67.78	na	na	34.37	33.99	76.54	47.87	na	na	62.44	na	22.60
Specific gravity	g/cc	2.61	2.70	na	na	2.71	na	na	2.64	2.68	2.67	2.59	na	na	2.66	na	2.72
Atterberg limits classification	none	MH	non-plastic	na	na	OL	na	na	non-plastic	non-plastic	OH	non-plastic	na	na	CL	na	non-plastic
Liquid limit	% dw	62.5	na	na	na	36.2	na	na	na	na	66.8	na	na	na	37.8	na	na
Plastic limit	% dw	35.7	na	na	na	26.2	na	na	na	na	32.5	na	na	na	23.3	na	na
Plasticity index	% dw	26.8	na	na	na	10	na	na	na	na	34.3	na	na	na	14.5	na	na
Porosity	S.U.	0.73	0.43	na	na	0.63	na	na	0.47	0.47	0.68	0.58	na	na	0.59	na	0.39

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1b. 1- and 2-ft intervals, samples SC6 through SC9

1- AND 2-FT INTERVALS		LDW-SC6			LDW-SC7			LDW-SC8						LDW-SC9		
ANALYTE	UNIT	LDW-SC6-0-2	LDW-SC6-2.4-5	LDW-SC6-6-8	LDW-SC7-0-1	LDW-SC7-1-1.7	LDW-SC7-1.7-4	LDW-SC8-0-1	LDW-SC8-1-2	LDW-SC8-2-4	LDW-SC8-4-6	LDW-SC8-6-8	LDW-SC8-8-10	LDW-SC9-0-1	LDW-SC9-1-2.6	LDW-SC9-2.6-4
Metals and trace elements																
Antimony	mg/kg dw	*9 UJ*	8 UJ	6 UJ	7 UJ	6 UJ	6 UJ	8 UJ	8 UJ	10 J	14 J	na	*9 UJ*	7 UJ	9 UJ	8 UJ
Arsenic	mg/kg dw	*21*	41	20	17	11	6 U	19	20	40	62	na	*21*	17	30	16
Cadmium	mg/kg dw	*0.4 U*	1.8	0.3 U	0.9	0.6	0.2 U	0.5	1.0	2.8	4.0	na	*1.9*	2.0	5.9	0.8
Chromium	mg/kg dw	*37.1*	61.0	13.0	39.6	35.5	28.1	32.9	46.4	59.4	81.6	na	*54.7*	51.3	119	23.2
Cobalt	mg/kg dw	*10*	11.3	5.5	9.7	7.6	5.9	9.1	11.0	8.6	8.2	na	*9.6*	9.8	11.6	8.1
Copper	mg/kg dw	*99.2*	123	23.2	90.4	37.0	11.0	98.0	84.9	87.6	129	na	*89.4*	79.3	121	37.9
Lead	mg/kg dw	*67*	141	42	137	60	5	110	137	149	209	na	*89*	99 J	133 J	37 J
Mercury	mg/kg dw	*0.29*	0.44	0.05 U	0.47	0.17	0.04 U	0.32	0.48	0.45	0.77	na	*0.89*	0.42	1.28	0.17
Molybdenum	mg/kg dw	*1.4*	2.8	1.0	1.9	0.6	0.6 U	1.7	1.1	2.6	4.7	na	*2.3*	1.3	1.6	1.5
Nickel	mg/kg dw	*28*	45	10	26	37	37	23	37	32	23	na	*24*	22	29	15
Selenium	mg/kg dw	*9 U*	8 U	6 U	7 U	6 U	6 U	8 U	8 U	7 U	7 U	na	*9 U*	7 U	9 U	8 U
Silver	mg/kg dw	*0.5 U*	1.6	0.4 U	1.0	0.5	0.4 U	0.6	0.8	2.5	3.6	na	*2.3*	2.3	7.5	0.5 U
Thallium	mg/kg dw	*9 U*	8 U	6 U	7 U	6 U	6 U	8 U	8 U	7 U	7 U	na	*9 U*	7 U	9 U	8 U
Vanadium	mg/kg dw	*73.7*	67.7	41.0	66.1	45.0	34.4	65.7	69.7	56.6	59.2	na	*75.4*	63.4	84.9	71.5
Zinc	mg/kg dw	*209*	359	88.4	175	91.9	27.8	166	193	317	527	na	*186*	168	263	69
Organometals																
Monobutyltin as ion	µg/kg dw	na	na	na	6.1	3.8 U	3.8 U	na	na	na	na	na	na	na	na	na
Dibutyltin as ion	µg/kg dw	na	na	na	19	5.4 U	5.4 U	na	na	na	na	na	na	na	na	na
Tributyltin as ion	µg/kg dw	na	na	na	91	21	3.6 U	na	na	na	na	na	na	na	na	na
PAHs																
1-Methylnaphthalene	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20	22 UJ	20 U
2-Chloronaphthalene	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
2-Methylnaphthalene	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	63 J	65 U	62 U	38	27 J	20 U
Acenaphthene	µg/kg dw	17 J	16 J	65 U	21	20 U	20 U	21	24	47	190	51 J	62 U	14 J	12 J	20 U
Acenaphthylene	µg/kg dw	28	17 J	65 U	14 J	20 U	20 U	24	19 J	15 J	65 U	65 U	62 U	14 J	15 J	20 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC6			LDW-SC7			LDW-SC8						LDW-SC9		
ANALYTE	UNIT	LDW-SC6-0-2	LDW-SC6-2.4-5	LDW-SC6-6-8	LDW-SC7-0-1	LDW-SC7-1-1.7	LDW-SC7-1.7-4	LDW-SC8-0-1	LDW-SC8-1-2	LDW-SC8-2-4	LDW-SC8-4-6	LDW-SC8-6-8	LDW-SC8-8-10	LDW-SC9-0-1	LDW-SC9-1-2.6	LDW-SC9-2.6-4
Anthracene	µg/kg dw	110	97	65 U	69	11 J	20 U	97	98	120	260	140	63	59	63 J	14 J
Benzo(a)anthracene	µg/kg dw	260	200	65 U	180	24	20 U	220	450	200	330	250	140	97	72 J	20
Benzo(a)pyrene	µg/kg dw	380 J	350	65 U	300 J	46	20 U	380	360	170 J	210	200	200	130	170 J	36 J
Benzo(b)fluoranthene	µg/kg dw	810 J	590	65 U	480 J	74	20 U	680	680	180 J	310	290	210	220	220 J	57 J
Benzo(g,h,i)perylene	µg/kg dw	82 J	61	65 U	80 J	12 J	20 U	80	60	38 J	76	76	100	26	39 J	20 UJ
Benzo(k)fluoranthene	µg/kg dw	490 J	420 J	65 U	400 J	60	20 U	490	480	270 J	150	160	230	190	200 J	32 J
Total benzofluoranthenes	µg/kg dw	1,300 J	1,010 J	65 U	880 J	134	20 U	1,170	1,160	450 J	460	450	440	410	420 J	89 J
Chrysene	µg/kg dw	530	340 J	65 U	260	33	20 U	370	540	260	370	310	190	180	160 J	30
Dibenzo(a,h)anthracene	µg/kg dw	27 J	18 J	6.5	21 J	20 U	20 U	25	20	11 J	48	54	50	20 U	22 UJ	20 UJ
Dibenzofuran	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	28	100	65 U	62 U	20 U	22 UJ	20 U
Fluoranthene	µg/kg dw	530	320	65 U	460	62	20 U	500	590	680	1,300	730	350	250	200 J	58
Fluorene	µg/kg dw	25	26	65 U	19 J	20 U	20 U	22	29	71	240	120	62 U	21	21 J	20 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	95 J	68	65 U	77 J	13 J	20 U	93	66	38 J	68	70	97	24	30 J	20 UJ
Naphthalene	µg/kg dw	13 J	14 J	65 U	14 J	20 U	20 U	16 J	15 J	19 J	73	65 U	62 U	29	24 J	20 U
Phenanthrene	µg/kg dw	200	170 J	65 U	200	32	20 U	210	170	200	910	460	110	130	90 J	29
Pyrene	µg/kg dw	760	830	53 J	600	120	20 U	680	690	530	930	700	470	350	560 J	90
Total HPAH	µg/kg dw	3,960 J	3,200 J	60 J	2,860 J	440 J	20 U	3,520	3,940	2,380 J	3,800	2,840	2,040	1,470	1,650 J	323 J
Total LPAH	µg/kg dw	390 J	340 J	65 U	340 J	43 J	20 U	390 J	360 J	470 J	1,670	770 J	170	270 J	225 J	43 J
Carcinogenic PAHs	µg/kg dw	560 J	490 J	48	420 J	67 J	18 U	540	540	250 J	320	300	290	190	230 J	52 J
Total PAH	µg/kg dw	4,360 J	3,540 J	60 J	3,200 J	490 J	20 U	3,910 J	4,290 J	2,850 J	5,500	3,610 J	2,210	1,730 J	1,880 J	366 J
Phthalates																
Bis(2-ethylhexyl)phthalate	µg/kg dw	480	1,100	65 U	1,200	240	13 J	630	470	1,600	2,200	1,400	260	1,700	1,200 J	20 U
Butyl benzyl phthalate	µg/kg dw	54	52	6.5 U	73	18 J	5.9 UJ	42 J	24 J	20 U	36 U	35 J	6.2 U	28	16	7.7
Diethyl phthalate	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
Dimethyl phthalate	µg/kg dw	9.9 J	20 U	6.5 U	20 U	20 U	20 U	20 U	20 U	20 U	6.5 U	6.5 U	62 U	20 U	22 UJ	20 U
Di-n-butyl phthalate	µg/kg dw	33 U	40 U	65 U	32 U	20 U	20 U	32 U	23 U	31 U	65 U	65 U	42 J	35 U	38 UJ	25 U
Di-n-octyl phthalate	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	14 J	65 U	65 U	62 U	20 U	22 UJ	20 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC6			LDW-SC7			LDW-SC8						LDW-SC9		
ANALYTE	UNIT	LDW-SC6-0-2	LDW-SC6-2.4-5	LDW-SC6-6-8	LDW-SC7-0-1	LDW-SC7-1-1.7	LDW-SC7-1.7-4	LDW-SC8-0-1	LDW-SC8-1-2	LDW-SC8-2-4	LDW-SC8-4-6	LDW-SC8-6-8	LDW-SC8-8-10	LDW-SC9-0-1	LDW-SC9-1-2.6	LDW-SC9-2.6-4
Other SVOCs																
1,2,4-Trichlorobenzene	µg/kg dw	5.9 U	5.9 U	6.5 U	20 UJ	20 UJ	5.9 U	5.9 U	5.9 U	20 UJ	11	14	6.2 UJ	18 J	22 J	5.9 UJ
1,2-Dichlorobenzene	µg/kg dw	5.9 U	3.6 J	6.5 U	20 U	20 U	5.9 U	5.9 U	5.9 U	20 U	10	12	6.2 U	17	5.9 J	5.9 U
1,3-Dichlorobenzene	µg/kg dw	20 U	20 U	6.5 U	20 U	20 U	20 U	20 U	20 U	20 U	12	6.5	62 U	20 U	22 UJ	20 U
1,4-Dichlorobenzene	µg/kg dw	5.9 U	4.1 J	6.5 U	18 J	20 U	5.9 U	6.5	3.6 J	20 U	31	14	6.2 U	18	9.2	5.9 U
2,4,5-Trichlorophenol	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
2,4,6-Trichlorophenol	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
2,4-Dichlorophenol	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
2,4-Dimethylphenol	µg/kg dw	18 U	18 U	6.5 U	18 U	18 U	17 UJ	17 U	17 U	18 U	6.5 UJ	16 J	10	17 U	20 U	17 U
2,4-Dinitrophenol	µg/kg dw	200 U	200 U	650 U	200 U	200 U	200 U	200 U	200 U	200 U	650 U	650 U	620 UJ	200 U	220 UJ	200 U
2,4-Dinitrotoluene	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
2,6-Dinitrotoluene	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
2-Chlorophenol	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
2-Methylphenol	µg/kg dw	5.3 J	5.9	6.5 U	20 U	20 U	5.9 UJ	5.9 UJ	5.9 UJ	20 U	6.5 U	5.9 J	6.2 U	3.6 J	6.6 U	5.9 U
2-Nitroaniline	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
2-Nitrophenol	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
3,3'-Dichlorobenzidine	µg/kg dw	99 UJ	99 UJ	330 U	99 UJ	99 UJ	98 UJ	99 UJ	99 UJ	99 UJ	330 U	330 U	310 U	99 UJ	110 UJ	99 UJ
3-Nitroaniline	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
4,6-Dinitro-o-cresol	µg/kg dw	200 U	200 U	650 U	200 U	200 U	200 U	200 U	200 U	200 U	650 U	650 U	620 UJ	200 U	220 UJ	200 U
4-Bromophenyl phenyl ether	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
4-Chloro-3-methylphenol	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
4-Chloroaniline	µg/kg dw	99 UJ	99 UJ	330 U	99 UJ	99 UJ	98 UJ	99 UJ	99 UJ	99 UJ	330 U	330 U	310 U	47 J	110 UJ	99 UJ
4-Chlorophenyl phenyl ether	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
4-Methylphenol	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	23	42 J	65 U	62 U	17 J	16 J	20 U
4-Nitroaniline	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
4-Nitrophenol	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 U	99 U	110 UJ	99 U
Aniline	µg/kg dw	20 UJ	20 UJ	65 U	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	65 U	65 U	62 U	20 UJ	22 UJ	20 UJ
Benzoic acid	µg/kg dw	330	260	590 U	200 UJ	200 UJ	59 UJ	52 J	48 J	200 UJ	590 U	590 U	620 U	390 J	540 J	100 J

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC6			LDW-SC7			LDW-SC8						LDW-SC9		
ANALYTE	UNIT	LDW-SC6-0-2	LDW-SC6-2.4-5	LDW-SC6-6-8	LDW-SC7-0-1	LDW-SC7-1-1.7	LDW-SC7-1.7-4	LDW-SC8-0-1	LDW-SC8-1-2	LDW-SC8-2-4	LDW-SC8-4-6	LDW-SC8-6-8	LDW-SC8-8-10	LDW-SC9-0-1	LDW-SC9-1-2.6	LDW-SC9-2.6-4
Benzyl alcohol	µg/kg dw	30 U	30 U	33 U	99 U	99 U	30 UJ	30 UJ	30 UJ	99 U	33 U	33 U	31 U	140 J	33 UJ	30 UJ
bis(2-chloroethoxy) methane	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
bis(2-chloroethyl)ether	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
bis(2-chloroisopropyl) ether	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
Hexachlorobenzene	µg/kg dw	5.9 U	5.9 U	6.5 U	3.2 U	6.6 U	0.99 U	0.98 U	4.9 U	7.5 U	6.5 U	4.6 J	6.2 U	5.9 U	6.6 U	0.98 U
Hexachlorobutadiene	µg/kg dw	5.9 U	5.9 U	6.5 U	3.2 U	6.6 U	0.99 U	0.98 U	4.9 U	7.5 U	6.5 U	5.9 J	6.2 U	5.9 U	6.6 U	0.98 U
Hexachlorocyclopenta-diene	µg/kg dw	99 U	99 U	330 U	99 U	99 U	98 U	99 U	99 U	99 U	330 U	330 U	310 UJ	99 U	110 UJ	99 U
Hexachloroethane	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
Isophorone	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
Nitrobenzene	µg/kg dw	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
N-Nitrosodimethylamine	µg/kg dw	30 U	30 U	33 U	99 U	99 U	30 UJ	30 UJ	30 UJ	99 U	33 U	33 U	31 U	30 U	33 U	30 U
N-Nitroso-di-n-propylamine	µg/kg dw	30 U	30 U	33 U	99 UJ	99 UJ	30 U	30 U	30 U	99 UJ	33 U	69 U	31 UJ	30 U	33 U	30 U
N-Nitrosodiphenylamine	µg/kg dw	17 U	31 U	6.5 U	40 U	20 U	5.9 U	26 U	37 U	170 U	510 U	280 U	65 UJ	66 U	140 U	21 U
Pentachlorophenol	µg/kg dw	30 U	30 U	33 U	99 U	99 U	30 U	22 J	21 J	99 U	40	45	19 J	16 J	34	30 U
Phenol	µg/kg dw	40	33	65 U	14 J	20 U	20 U	42	31	38	65 U	65 U	62 U	47	73 J	13 J
Polychlorinated biphenyls																
Aroclor-1016	µg/kg dw	39 U	68 U	3.9 U	65 U	130 U	3.9 U	20 U	33 U	150 U	300 U	170 U	20 U	150 U	400 U	20 U
Aroclor-1221	µg/kg dw	39 U	68 U	3.9 U	65 U	130 U	3.9 U	20 U	33 U	150 U	300 U	170 U	20 U	150 U	400 U	20 U
Aroclor-1232	µg/kg dw	51 U	68 U	3.9 U	65 U	130 U	5.5 U	20 U	33 U	150 U	300 U	170 U	20 U	150 U	400 U	20 U
Aroclor-1242	µg/kg dw	39 U	300	3.9 U	260	810	3.9 U	45	280	600	890	820	20 U	150 U	400 U	20 U
Aroclor-1248	µg/kg dw	49 U	68 U	3.9 U	65 U	130 U	3.9 U	20 U	33 U	150 U	300 U	170 U	69 U	1,500	630	20 U
Aroclor-1254	µg/kg dw	90	980	4.5 J	580	310	3.9 U	130	510	1,600	2,600	1,800	250	1,400	1,000	26
Aroclor-1260	µg/kg dw	82	360	3.9 U	460	150 J	3.9 U	110	240	690	2,000	1,200	290	650	1,100	41
Total PCBs	µg/kg dw	172	1,640	4.5 J	1,300	1,270 J	5.5 U	290	1,030	2,900	5,500	3,800	540	3,600	2,700	67
Pesticides																
2,4'-DDD	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U
2,4'-DDE	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	5.4 U	9.8 U	81 U	na	na	na	82 U	20 U	2.0 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC6			LDW-SC7			LDW-SC8						LDW-SC9		
ANALYTE	UNIT	LDW-SC6-0-2	LDW-SC6-2.4-5	LDW-SC6-6-8	LDW-SC7-0-1	LDW-SC7-1-1.7	LDW-SC7-1.7-4	LDW-SC8-0-1	LDW-SC8-1-2	LDW-SC8-2-4	LDW-SC8-4-6	LDW-SC8-6-8	LDW-SC8-8-10	LDW-SC9-0-1	LDW-SC9-1-2.6	LDW-SC9-2.6-4
2,4'-DDT	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U
4,4'-DDD	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	25 UJ	3.4 U
4,4'-DDE	µg/kg dw	na	na	na	12 U	13 U	2.0 U	2.0 U	9.8 U	54 U	na	na	na	15 U	20 U	2.0 U
4,4'-DDT	µg/kg dw	na	na	na	38 U	23 U	2.0 U	2.0 U	44 U	15 U	na	na	na	160 U	120 U	32 U
Total DDTs	µg/kg dw	na	na	na	38 U	23 U	2.0 U	5.4 U	44 U	81 U	na	na	na	160 U	120 U	32 U
Aldrin	µg/kg dw	na	na	na	3.2 U	6.6 U	0.99 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	0.98 U
Dieldrin	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U
Total aldrin/dieldrin	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U
alpha-BHC	µg/kg dw	na	na	na	3.2 U	6.6 U	0.99 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	0.98 U
beta-BHC	µg/kg dw	na	na	na	3.2 U	24 U	0.99 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	0.98 U
gamma-BHC	µg/kg dw	na	na	na	3.2 U	6.6 U	0.99 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	0.98 U
delta-BHC	µg/kg dw	na	na	na	3.2 U	6.6 U	0.99 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	2.2 U
alpha-Chlordane	µg/kg dw	na	na	na	3.2 U	6.6 U	0.99 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	0.98 U
gamma-Chlordane	µg/kg dw	na	na	na	14 U	21 U	0.99 U	1.7 U	21 U	43 U	na	na	na	61 U	9.9 U	3.3 U
alpha-Endosulfan	µg/kg dw	na	na	na	3.2 U	6.6 U	0.99 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	0.98 U
beta-Endosulfan	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U
Endosulfan sulfate	µg/kg dw	na	na	na	10 U	13 U	2.0 U	3.7 U	9.8 U	32 U	na	na	na	23 U	69 U	2.0 U
Endrin	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	110 U	20 U	2.0 U
Endrin aldehyde	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U
Endrin ketone	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U
Heptachlor	µg/kg dw	na	na	na	3.2 U	6.6 U	0.99 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	0.98 U
Heptachlor epoxide	µg/kg dw	na	na	na	3.2 U	6.6 U	0.99 U	0.98 U	4.9 U	7.5 U	na	na	na	77 U	29 U	0.98 U
Methoxychlor	µg/kg dw	na	na	na	32 U	66 U	9.9 U	9.8 U	49 U	75 U	na	na	na	73 U	99 U	9.8 U
Mirex	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U
cis-Nonachlor	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U
Oxychlordane	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U
Toxaphene	µg/kg dw	na	na	na	320 U	660 U	99 U	98 U	490 U	750 U	na	na	na	730 U	990 U	98 U
trans-Nonachlor	µg/kg dw	na	na	na	6.5 U	13 U	2.0 U	2.0 U	9.8 U	15 U	na	na	na	15 U	20 U	2.0 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC6			LDW-SC7			LDW-SC8						LDW-SC9		
ANALYTE	UNIT	LDW-SC6-0-2	LDW-SC6-2.4-5	LDW-SC6-6-8	LDW-SC7-0-1	LDW-SC7-1-1.7	LDW-SC7-1.7-4	LDW-SC8-0-1	LDW-SC8-1-2	LDW-SC8-2-4	LDW-SC8-4-6	LDW-SC8-6-8	LDW-SC8-8-10	LDW-SC9-0-1	LDW-SC9-1-2.6	LDW-SC9-2.6-4
Total chlordane	µg/kg dw	na	na	na	14 U	21 U	2.0 U	2.0 U	21 U	43 U	na	na	na	61 U	20 U	3.3 U
Grain size																
Fractional % phi >-1 (>2000 µm)	% dw	*1*	32.7	na	1.5	0.4	3.6	1.8	1.5	2.8	na	na	na	1.6	2.2	0.3
Fractional % phi -1-0 (1000-2000 µm)	% dw	*1*	0.9	na	0.7	1.3	1.0	1.7	0.7	0.4	na	na	na	1.7	0.4	1.3
Fractional % phi 0-1 (500-1000 µm)	% dw	*3.2*	2.1	na	1.6	6.1	4.3	5.6	1.2	2.2	na	na	na	4.6	1.0	2.4
Fractional % phi 1-2 (250-500 µm)	% dw	*6.6*	5.3	na	7.9	20.6	25.3	8.6	2.7	5.6	na	na	na	17.1	1.9	2.9
Fractional % phi 2-3 (125-250 µm)	% dw	*5.6*	4.8	na	18.5	29.1	47.9	7.9	5.1	14.8	na	na	na	25.9	2.7	3.9
Fractional % phi 3-4 (62.5-125 µm)	% dw	*6.2*	5.8	na	13.9	13.1	13.5	9.7	12.4	20.4	na	na	na	15.3	4.4	42.8
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	*6.9*	6.6	na	8.3	9.0	1.8	7.9	14.7	14.6	na	na	na	9.8	11.0	23.4
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	*14.2*	9.5	na	10.3	5.1	0.7	11.8	15.1	11.4	na	na	na	7.9	25.4	7.2
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	*17.8*	9.9	na	9.5	4.6	0.4	16.1	18.0	9.7	na	na	na	5.2	23.6	4.7
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	*11.6*	6.5	na	8.0	3.0	0.3	8.9	8.8	4.9	na	na	na	3.1	8.3	3.2
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	*8.1*	4.6	na	5.7	2.1	0.1	5.6	5.2	3.5	na	na	na	2.0	5.0	2.3
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	*5.8*	3.1	na	4.3	1.6	0.1 U	4.4	4.3	2.9	na	na	na	1.8	4.4	1.3
Fractional % phi 10+ (<0.98 µm)	% dw	*12.2*	8.3	na	9.7	4.0	1.0	10.1	10.2	6.7	na	na	na	4.1	9.6	4.3
Rocks (total calc'd)	% dw	*1*	32.7	na	1.5	0.4	3.6	1.8	1.5	2.8	na	na	na	1.6	2.2	0.3
Sand (total calc'd)	% dw	*23*	18.9	na	42.6	70.2	92.0	33.5	22.1	43.4	na	na	na	64.6	10.4	53.3
Silt (total calc'd)	% dw	*50.5*	32.5	na	36.1	21.7	3.2	44.7	56.6	40.6	na	na	na	26.0	68.3	38.5
Clay (total calc'd)	% dw	*26.1*	16.0	na	19.7	7.7	1.1	20.1	19.7	13.1	na	na	na	7.9	19.0	7.9
Fines (percent silt+clay)	% dw	*76.6*	48.5	na	55.8	29.4	4.3	64.8	76.3	53.7	na	na	na	33.9	87.3	46.4

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC6			LDW-SC7			LDW-SC8						LDW-SC9		
ANALYTE	UNIT	LDW-SC6-0-2	LDW-SC6-2.4-5	LDW-SC6-6-8	LDW-SC7-0-1	LDW-SC7-1-1.7	LDW-SC7-1.7-4	LDW-SC8-0-1	LDW-SC8-1-2	LDW-SC8-2-4	LDW-SC8-4-6	LDW-SC8-6-8	LDW-SC8-8-10	LDW-SC9-0-1	LDW-SC9-1-2.6	LDW-SC9-2.6-4
Conventional parameters																
Total organic carbon (TOC)	% dw	2.28	*1.65*	0.620	2.04	0.835	0.074	1.99	1.15	1.41	1.55	1.97	*1.90*	1.63	2.47	0.693
Total solids	% ww	53.70	83.30	83.40	*59.10*	60.10	60.00	74.60	52.90	54.70	65.40	58.40	*54.58*	68.10	50.60	59.60
Geotechnical																
Bulk density (dry)	pcf	52.6	66.3	na	55.4	na	112.5	56.1	na	52.9	na	na	na	59.5	51.3	na
Bulk density (wet)	pcf	102.5	101.3	na	102.6	na	134.8	98.0	na	92.2	na	na	na	100	93.3	na
Moisture	% dw	94.85	52.79	na	85.11	na	19.85	74.56	na	74.20	na	na	na	68.03	81.94	na
Specific gravity	g/cc	2.69	2.66	na	2.69	na	2.73	2.69	na	2.58	na	na	na	2.62	2.61	na
Atterberg limits classification	none	OH	OH	na	OH	na	non-plastic	OH	na	OH	na	na	na	OL	OH	na
Liquid limit	% dw	72.4	54.1	na	57.0	na	na	72.1	na	56.6	na	na	na	42.8	73.1	na
Plastic limit	% dw	32.9	31.3	na	29.2	na	na	33.4	na	34.0	na	na	na	28.8	45.7	na
Plasticity index	% dw	39.5	22.8	na	27.8	na	na	38.7	na	22.6	na	na	na	14.0	27.4	na
Porosity	S.U.	0.69	0.60	na	0.67	na	0.34	0.67	na	0.67	na	na	na	0.64	0.69	na

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1c. 1- and 2-ft intervals, samples SC10 through SC13

1- AND 2-FT INTERVALS		LDW-SC10					LDW-SC11				LDW-SC12				LDW-SC13	
ANALYTE	UNIT	LDW-SC10-0-1	LDW-SC10-1-2	LDW-SC10-2-4	LDW-SC10-4-5	LDW-SC10-6-8	LDW-SC11-0-0.8	LDW-SC11-0.8-2	LDW-SC11-2-3.4	LDW-SC11-3.4-4.1	LDW-SC12-0-2	LDW-SC12-2-4	LDW-SC12-4-6.7	LDW-SC12-6.7-8.7	LDW-SC13-0-2	LDW-SC13-2-4
Metals and trace elements																
Antimony	mg/kg dw	6 UJ	9 UJ	8 UJ	na	na	9 UJ	6 UJ	7 UJ	6 UJ	10 UJ	9 UJ	na	na	*7 UJ*	7 UJ
Arsenic	mg/kg dw	8	19	21	na	na	28	9	7	9	20	19	na	na	*16*	13
Cadmium	mg/kg dw	0.4	0.9	2.2	na	na	1.8	0.2 U	0.3 U	0.2 U	0.4	1.4	na	na	*1.2*	0.7
Chromium	mg/kg dw	30	44.7	53.0	na	na	56.6	13.5	15.7	24.2	29	53.6	na	na	*38.1*	20.9
Cobalt	mg/kg dw	10.6	11.1	10	na	na	8.5	5.5	5.3	7.2	7.5	9.0	na	na	*7.0*	5.5
Copper	mg/kg dw	88.1	108	200	na	na	270	17.2	14.4	16.0	73.0	76.7	na	na	*53.6*	27.9
Lead	mg/kg dw	43	87	308	na	na	639	3	3	3	66	74	na	na	*71 J*	36 J
Mercury	mg/kg dw	0.12	0.27	0.74	0.17	na	0.64	0.06 U	0.05 U	0.05 U	0.23	0.45	0.74	0.05 U	*0.30*	0.26
Molybdenum	mg/kg dw	1.0	2.4	3.1	na	na	3.4	1.1	0.7 U	0.6 U	2	2.0	na	na	*2.2*	1.4
Nickel	mg/kg dw	22	33	30	na	na	26	10	11	25	17	23	na	na	*18*	11
Selenium	mg/kg dw	6 U	9 U	8 U	na	na	9 U	6 U	7 U	6 U	10 U	9 U	na	na	*7 U*	7 U
Silver	mg/kg dw	0.4 U	0.7	2.7	na	na	1.6	0.4 U	0.4 U	0.4 U	0.6 U	1.6	na	na	*1.3*	0.4 U
Thallium	mg/kg dw	6 U	9 U	8 U	na	na	9 U	6 U	7 U	6 U	10 U	9 U	na	na	*7 U*	7 U
Vanadium	mg/kg dw	63.5	78.0	73.9	na	na	57.2	43.9	48.1	47.1	60	72.4	na	na	*54.0*	46.3
Zinc	mg/kg dw	104	239	299	na	na	482	26.2	25.2	31.9	129	139	na	na	*110*	60.4
Organometals																
Monobutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	3.9 U	4.0 U	na	na	na	na
Dibutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	15	5.7 U	na	na	na	na
Tributyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	140	15	na	na	na	na
PAHs																
1-Methylnaphthalene	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	26	50
2-Chloronaphthalene	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
2-Methylnaphthalene	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	36	74
Acenaphthene	µg/kg dw	20 U	60 U	48 J	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	92	320
Acenaphthylene	µg/kg dw	20 U	60 U	59 U	66 U	na	280	19 U	20 U	19 U	59 U	40 U	na	na	33	47

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC10					LDW-SC11				LDW-SC12				LDW-SC13	
ANALYTE	UNIT	LDW-SC10-0-1	LDW-SC10-1-2	LDW-SC10-2-4	LDW-SC10-4-5	LDW-SC10-6-8	LDW-SC11-0-0.8	LDW-SC11-0.8-2	LDW-SC11-2-3.4	LDW-SC11-3.4-4.1	LDW-SC12-0-2	LDW-SC12-2-4	LDW-SC12-4-6.7	LDW-SC12-6.7-8.7	LDW-SC13-0-2	LDW-SC13-2-4
Anthracene	µg/kg dw	36	82	130	66 U	na	500	19 U	20 U	19 U	43 J	47	na	na	130	360
Benzo(a)anthracene	µg/kg dw	130	270	420	50 J	na	3,600	19 U	20 U	19 U	130	83	na	na	310	1,000
Benzo(a)pyrene	µg/kg dw	140	400	580	49 J	na	3,100	19 U	20 U	19 U	190	130	na	na	380	830
Benzo(b)fluoranthene	µg/kg dw	220	670	1,100	60 J	na	4,100	19 U	20 U	19 U	330	200	na	na	750	1,300
Benzo(g,h,i)perylene	µg/kg dw	40	91	120	34 J	na	520	19 U	20 U	19 U	45 J	26 J	na	na	60	96
Benzo(k)fluoranthene	µg/kg dw	200	530	580	38 J	na	3,500	19 U	20 U	19 U	310	180	na	na	380	940
Total benzofluoranthenes	µg/kg dw	420	1,200	1,700	98 J	na	7,600	19 U	20 U	19 U	640	380	na	na	1,130	2,200
Chrysene	µg/kg dw	180	460	620	59 J	na	4,300	19 U	20 U	19 U	210	110	na	na	410	1,100
Dibenzo(a,h)anthracene	µg/kg dw	14 J	60 U	34 J	18	na	150	19 U	20 U	19 U	59 U	40 U	na	na	21 J	38
Dibenzofuran	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	48	140
Fluoranthene	µg/kg dw	320	810	1,200	110	na	8,100	19 U	20 U	19 U	350	210	na	na	1,000	1,300
Fluorene	µg/kg dw	20 U	60 U	48 J	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	73	200
Indeno(1,2,3-cd)pyrene	µg/kg dw	36	88	130	66 U	na	670	19 U	20 U	19 U	57 J	32 J	na	na	68	120
Naphthalene	µg/kg dw	20 U	60 U	35 J	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	110	210
Phenanthrene	µg/kg dw	110	290	490	47 J	na	660	19 U	20 U	19 U	100	120	na	na	290	530
Pyrene	µg/kg dw	300	730	1,200	160	na	6,700	13 J	20 U	19 U	470	360	na	na	1,100	1,400
Total HPAH	µg/kg dw	1,580 J	4,050	6,000 J	580 J	na	34,700	13 J	20 U	19 U	2,090 J	1,330 J	na	na	4,500 J	8,100
Total LPAH	µg/kg dw	150	370	750 J	47 J	na	1,440	19 U	20 U	19 U	140 J	170	na	na	730	1,670
Carcinogenic PAHs	µg/kg dw	210 J	570	820 J	75 J	na	4,400	17 U	18 U	17 U	290 J	190 J	na	na	540 J	1,200
Total PAH	µg/kg dw	1,730 J	4,420	6,700 J	630 J	na	36,200	13 J	20 U	19 U	2,240 J	1,500 J	na	na	5,200 J	9,800
Phthalates																
Bis(2-ethylhexyl)phthalate	µg/kg dw	1,200	2,800	3,900	290	na	310	19 U	20 U	19 U	210	380 J	na	na	160	20 U
Butyl benzyl phthalate	µg/kg dw	29	160	180	18	na	28	5.8 U	5.9 U	5.8 U	32	12 U	na	na	6.8 U	6.0 U
Diethyl phthalate	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
Dimethyl phthalate	µg/kg dw	13 J	60 U	59 U	6.6 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
Di-n-butyl phthalate	µg/kg dw	31 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	21 J	na	na	180 U	27 U
Di-n-octyl phthalate	µg/kg dw	25	60 U	110	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
Other SVOCs																

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC10					LDW-SC11				LDW-SC12				LDW-SC13	
ANALYTE	UNIT	LDW-SC10-0-1	LDW-SC10-1-2	LDW-SC10-2-4	LDW-SC10-4-5	LDW-SC10-6-8	LDW-SC11-0-0.8	LDW-SC11-0.8-2	LDW-SC11-2-3.4	LDW-SC11-3.4-4.1	LDW-SC12-0-2	LDW-SC12-2-4	LDW-SC12-4-6.7	LDW-SC12-6.7-8.7	LDW-SC13-0-2	LDW-SC13-2-4
1,2,4-Trichlorobenzene	µg/kg dw	20 UJ	20 UJ	20 UJ	6.6 U	na	4.5 J	5.8 U	5.9 U	5.8 U	5.9 UJ	12 UJ	na	na	4.8 J	6.0 UJ
1,2-Dichlorobenzene	µg/kg dw	20 U	20 U	9.9 J	10	na	6.5 U	5.8 U	5.9 U	5.8 U	5.9 U	12 U	na	na	6.8 U	6.0 U
1,3-Dichlorobenzene	µg/kg dw	20 U	60 U	59 U	6.6 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
1,4-Dichlorobenzene	µg/kg dw	20 U	20 U	38	7.9	na	6.5 U	5.8 U	5.9 U	5.8 U	5.9 U	12 U	na	na	6.8 U	6.0 U
2,4,5-Trichlorophenol	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 U	200 U	na	na	110 U	99 U
2,4,6-Trichlorophenol	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 U	200 U	na	na	110 U	99 U
2,4-Dichlorophenol	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 U	200 U	na	na	110 U	99 U
2,4-Dimethylphenol	µg/kg dw	27 J	18 UJ	18 UJ	6.6 U	na	25 J	5.8 UJ	5.9 UJ	5.8 U	5.9 U	12 U	na	na	19 U	18 U
2,4-Dinitrophenol	µg/kg dw	200 U	600 U	590 U	660 U	na	1,100 UJ	190 UJ	200 UJ	190 UJ	590 UJ	400 UJ	na	na	230 U	200 U
2,4-Dinitrotoluene	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 U	200 U	na	na	110 U	99 U
2,6-Dinitrotoluene	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 U	200 U	na	na	110 U	99 U
2-Chlorophenol	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
2-Methylphenol	µg/kg dw	20 U	20 U	20 U	6.6 U	na	5.2 J	5.8 U	5.9 U	5.8 U	5.9 U	12 U	na	na	6.8 U	6.0 U
2-Nitroaniline	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 U	200 U	na	na	110 U	99 U
2-Nitrophenol	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 U	200 U	na	na	110 U	99 U
3,3'-Dichlorobenzidine	µg/kg dw	100 UJ	300 UJ	300 UJ	330 U	na	540 UJ	97 UJ	99 UJ	96 UJ	290 UJ	200 UJ	na	na	110 UJ	99 UJ
3-Nitroaniline	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 UJ	200 UJ	na	na	110 U	99 U
4,6-Dinitro-o-cresol	µg/kg dw	200 U	600 U	590 U	660 U	na	1,100 UJ	190 UJ	200 UJ	190 UJ	590 UJ	400 UJ	na	na	230 U	200 U
4-Bromophenyl phenyl ether	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
4-Chloro-3-methylphenol	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 U	200 U	na	na	110 U	99 U
4-Chloroaniline	µg/kg dw	100 UJ	300 UJ	300 UJ	330 U	na	540 UJ	97 UJ	99 UJ	96 UJ	290 UJ	200 UJ	na	na	110 UJ	99 UJ
4-Chlorophenyl phenyl ether	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
4-Methylphenol	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
4-Nitroaniline	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 U	200 U	na	na	110 U	99 U
4-Nitrophenol	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 UJ	200 UJ	na	na	110 U	99 U
Aniline	µg/kg dw	20 UJ	60 UJ	59 UJ	66 U	na	110 UJ	19 UJ	20 UJ	19 UJ	59 U	40 U	na	na	23 UJ	20 UJ
Benzoic acid	µg/kg dw	200 UJ	200 UJ	200 UJ	590 U	na	130	77	66	130	120 UJ	120 UJ	na	na	220 J	120 J
Benzyl alcohol	µg/kg dw	100 U	99 U	99 U	33 U	na	32 U	29 U	30 U	29 U	29 U	60 U	na	na	34 UJ	30 UJ

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC10					LDW-SC11				LDW-SC12				LDW-SC13	
ANALYTE	UNIT	LDW-SC10-0-1	LDW-SC10-1-2	LDW-SC10-2-4	LDW-SC10-4-5	LDW-SC10-6-8	LDW-SC11-0-0.8	LDW-SC11-0.8-2	LDW-SC11-2-3.4	LDW-SC11-3.4-4.1	LDW-SC12-0-2	LDW-SC12-2-4	LDW-SC12-4-6.7	LDW-SC12-6.7-8.7	LDW-SC13-0-2	LDW-SC13-2-4
bis(2-chloroethoxy) methane	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
bis(2-chloroethyl)ether	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
bis(2-chloroisopropyl) ether	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
Hexachlorobenzene	µg/kg dw	1.0 U	2.0 U	4.9 U	6.6 U	na	6.5 U	5.8 U	5.9 U	5.8 U	5.9 U	12 U	na	na	6.8 U	6.0 U
Hexachlorobutadiene	µg/kg dw	1.0 U	2.0 U	4.9 U	6.6 U	na	6.5 U	5.8 U	5.9 U	5.8 U	5.9 U	12 U	na	na	6.8 U	6.0 U
Hexachlorocyclopenta-diene	µg/kg dw	100 U	300 U	300 U	330 U	na	540 U	97 U	99 U	96 U	290 UJ	200 UJ	na	na	110 U	99 U
Hexachloroethane	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
Isophorone	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
Nitrobenzene	µg/kg dw	20 U	60 U	59 U	66 U	na	110 U	19 U	20 U	19 U	59 U	40 U	na	na	23 U	20 U
N-Nitrosodimethylamine	µg/kg dw	100 U	99 U	99 U	33 U	na	32 U	29 U	30 U	29 U	29 U	60 U	na	na	34 U	30 U
N-Nitroso-di-n-propylamine	µg/kg dw	100 UJ	99 UJ	99 UJ	33 U	na	36	29 U	30 U	29 U	29 U	60 U	na	na	34 U	30 U
N-Nitrosodiphenylamine	µg/kg dw	20 U	100 U	110 U	32 U	na	63 U	5.8 U	5.9 U	5.8 U	21 U	47 U	na	na	84 U	64 U
Pentachlorophenol	µg/kg dw	100 U	99 U	99 U	33 U	na	32 U	29 U	30 U	29 U	29 U	60 U	na	na	18 J	30 U
Phenol	µg/kg dw	23	99	77	66 U	na	110 U	19 U	20 U	19 U	59 U	36 J	na	na	32	16 J
Polychlorinated biphenyls																
Aroclor-1016	µg/kg dw	20 U	20 U	79 U	3.9 U	19 U	370 U	3.9 U	3.9 U	4.0 U	20 UJ	250 U	20 UJ	3.9 U	38 U	3.9 U
Aroclor-1221	µg/kg dw	20 U	20 U	79 U	3.9 U	19 U	370 U	3.9 U	3.9 U	4.0 U	20 UJ	250 U	7.8 UJ	3.9 U	38 U	3.9 U
Aroclor-1232	µg/kg dw	20 U	20 U	79 U	3.9 U	19 U	370 U	3.9 U	3.9 U	4.0 U	20 UJ	250 U	24 UJ	3.9 U	38 U	3.9 U
Aroclor-1242	µg/kg dw	77 J	68	250	160	19 U	370 U	3.9 U	3.9 U	4.0 U	20 U	250 U	24 UJ	3.9 U	38 U	3.9 U
Aroclor-1248	µg/kg dw	20 U	20 U	79 U	3.9 U	120	520	3.9 U	3.9 U	4.0 U	82	690	27 UJ	3.9 U	62	3.9 U
Aroclor-1254	µg/kg dw	110	130	520	150	130	1,900	3.9 U	3.9 U	4.0 U	150	1,200	170	3.9 U	200	7.8 U
Aroclor-1260	µg/kg dw	74	92	350	100	99	600	3.9 U	3.9 U	4.0 U	120	570	250	3.9 U	220	53
Total PCBs	µg/kg dw	260 J	290	1,120	410	350	3,000	3.9 U	3.9 U	4.0 U	350	2,500	420	3.9 U	480	53
Pesticides																
2,4'-DDD	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDE	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDT	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC10					LDW-SC11				LDW-SC12				LDW-SC13	
ANALYTE	UNIT	LDW-SC10-0-1	LDW-SC10-1-2	LDW-SC10-2-4	LDW-SC10-4-5	LDW-SC10-6-8	LDW-SC11-0-0.8	LDW-SC11-0.8-2	LDW-SC11-2-3.4	LDW-SC11-3.4-4.1	LDW-SC12-0-2	LDW-SC12-2-4	LDW-SC12-4-6.7	LDW-SC12-6.7-8.7	LDW-SC13-0-2	LDW-SC13-2-4
4,4'-DDE	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg dw	11 U	22 U	33 U	na	na	na	na	na	na	na	na	na	na	na	na
Total DDTs	µg/kg dw	11 U	22 U	33 U	na	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	1.0 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
alpha-BHC	µg/kg dw	1.0 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
beta-BHC	µg/kg dw	2.6 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	1.0 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
delta-BHC	µg/kg dw	1.5 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Chlordane	µg/kg dw	1.0 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
gamma-Chlordane	µg/kg dw	3.9 U	8.8 U	23 U	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Endosulfan	µg/kg dw	1.0 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
beta-Endosulfan	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg dw	3.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	1.0 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor epoxide	µg/kg dw	1.0 U	2.0 U	13 U	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg dw	10 U	20 U	49 U	na	na	na	na	na	na	na	na	na	na	na	na
Mirex	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
cis-Nonachlor	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Oxychlordane	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg dw	100 U	200 U	490 U	na	na	na	na	na	na	na	na	na	na	na	na
trans-Nonachlor	µg/kg dw	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	3.9 U	8.8 U	23 U	na	na	na	na	na	na	na	na	na	na	na	na
Grain size																

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC10					LDW-SC11				LDW-SC12				LDW-SC13	
ANALYTE	UNIT	LDW-SC10-0-1	LDW-SC10-1-2	LDW-SC10-2-4	LDW-SC10-4-5	LDW-SC10-6-8	LDW-SC11-0-0.8	LDW-SC11-0.8-2	LDW-SC11-2-3.4	LDW-SC11-3.4-4.1	LDW-SC12-0-2	LDW-SC12-2-4	LDW-SC12-4-6.7	LDW-SC12-6.7-8.7	LDW-SC13-0-2	LDW-SC13-2-4
Fractional % phi >-1 (>2000 µm)	% dw	23.9	0.6	0.1	na	na	6.9	0.1	0.4	40.6	2.7	1.8	na	na	8.2	1.1
Fractional % phi -1-0 (1000-2000 µm)	% dw	6.1	0.3	1.2	na	na	3.0	0.4	0.8	2.5	1.1	1.0	na	na	7.0	1.0
Fractional % phi 0-1 (500-1000 µm)	% dw	6.9	1.3	1.2	na	na	4.6	1.3	4.5	7.5	2.1	1.2	na	na	16.8	6.0
Fractional % phi 1-2 (250-500 µm)	% dw	13.5	2.2	3.3	na	na	8.1	2.2	4.5	5.0	4.6	1.1	na	na	23.7	18.6
Fractional % phi 2-3 (125-250 µm)	% dw	14.1	3.9	6.9	na	na	12.2	10.3	22.2	6.8	5.9	1.1	na	na	11.3	27.7
Fractional % phi 3-4 (62.5-125 µm)	% dw	8.8	6.3	10	na	na	21.4	33.7	39.4	8.2	10.6	2.6	na	na	4.3	13.4
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	7.3	13.2	8.2	na	na	9.9	23.6	15.0	5.9	7.9	6.8	na	na	1.9	6.0
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	5.4	20.1	15.3	na	na	6.9	13.0	4.6	6.3	12.5	18.2	na	na	6.0	6.6
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	4.5	19.7	18.7	na	na	7.1	6.5	2.9	6.5	18.0	22.9	na	na	5.9	6.4
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	2.7	7.8	9.2	na	na	6.0	3.5	1.8	4.2	10.1	13.5	na	na	5.2	5.0
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	1.8	6.1	6.5	na	na	4.3	1.8	1.2	2.1	6.1	9.8	na	na	3.1	2.7
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	1.4	5.0	5.4	na	na	3.4	1.3	0.9	1.3	4.8	4.8	na	na	2.2	2.0
Fractional % phi 10+ (<0.98 µm)	% dw	3.5	13.6	13.9	na	na	6.2	2.4	1.8	3.2	13.6	15.1	na	na	4.3	3.5
Rocks (total calc'd)	% dw	23.9	0.6	0.1	na	na	6.9	0.1	0.4	40.6	2.7	1.8	na	na	8.2	1.1
Sand (total calc'd)	% dw	49.4	14.0	23	na	na	49.3	47.9	71.4	30.0	24.3	7.0	na	na	63.1	66.7
Silt (total calc'd)	% dw	19.9	60.8	51.4	na	na	29.9	46.6	24.3	22.9	48.5	61.4	na	na	19.0	24.0
Clay (total calc'd)	% dw	6.7	24.7	25.8	na	na	13.9	5.5	3.9	6.6	24.5	29.7	na	na	9.6	8.2
Fines (percent silt+clay)	% dw	26.6	85.5	77.2	na	na	43.8	52.1	28.2	29.5	73.0	91.1	na	na	28.6	32.2
Conventional parameters																
Total organic carbon (TOC)	% dw	1.86	2.23	2.95	1.04	0.989	4.23	0.647	0.397	0.178	1.92	1.58	1.92	0.869	3.46	2.26
Total solids	% ww	64.70	61.10	74.40	57.40	79.40	50.80	75.70	73.80	85.10	50.0	54.20	56.10	77.80	63.00	66.40

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC10					LDW-SC11				LDW-SC12				LDW-SC13	
ANALYTE	UNIT	LDW-SC10-0-1	LDW-SC10-1-2	LDW-SC10-2-4	LDW-SC10-4-5	LDW-SC10-6-8	LDW-SC11-0-0.8	LDW-SC11-0.8-2	LDW-SC11-2-3.4	LDW-SC11-3.4-4.1	LDW-SC12-0-2	LDW-SC12-2-4	LDW-SC12-4-6.7	LDW-SC12-6.7-8.7	LDW-SC13-0-2	LDW-SC13-2-4
Geotechnical																
Bulk density (dry)	pcf	50.1	na	57.2	na	na	na	96.5	na	na	37.9	63.7	na	na	83.4	37.0
Bulk density (wet)	pcf	94.0	na	96.8	na	na	na	125.1	na	na	87.9	108.5	na	na	111.1	83.9
Moisture	% dw	87.75	na	69.31	na	na	na	29.58	na	na	132.1	70.41	na	na	33.19	127.0
Specific gravity	g/cc	2.57	na	2.57	na	na	na	2.69	na	na	2.57	2.66	na	na	2.63	2.47
Atterberg limits classification	none	OH	na	OH	na	na	na	non-plastic	na	na	OH	OH	na	na	non-plastic	OH
Liquid limit	% dw	69.0	na	61.0	na	na	na	na	na	na	96.2	59.6	na	na	na	57.5
Plastic limit	% dw	38.5	na	36.8	na	na	na	na	na	na	46.3	36.8	na	na	na	47.8
Plasticity index	% dw	30.5	na	24.2	na	na	na	na	na	na	49.9	22.8	na	na	na	9.7
Porosity	S.U.	0.69	na	0.64	na	na	na	0.43	na	na	0.76	0.62	na	na	0.49	0.76

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1d. 1- and 2-ft intervals, samples SC14 through SC16

1- AND 2-FT INTERVALS		LDW-SC14						LDW-SC15					LDW-SC16			
ANALYTE	UNIT	LDW-SC14-0-1.4	LDW-SC14-1.4-2	LDW-SC14-2-4.1	LDW-SC14-4.1-6	LDW-SC14-6-8.7	LDW-SC14-10-11	LDW-SC15-0-1	LDW-SC15-1-2	LDW-SC15-2-4	LDW-SC15-4-6	LDW-SC15-8-10	LDW-SC16-0-2	LDW-SC16-2-4	LDW-SC16-4-6	LDW-SC16-8-10
Metals and trace elements																
Antimony	mg/kg dw	8 UJ	9 UJ	9 UJ	na	na	na	10 UJ	10 UJ	9 UJ	na	na	9 UJ	9 UJ	10 UJ	8 UJ
Arsenic	mg/kg dw	24	22	22	na	na	na	30	20	25	na	na	21	20	20	14
Cadmium	mg/kg dw	2.8	1.7	1.3	na	na	na	0.5	0.5	1.6	na	na	1.1	4.1	3.2	1.2
Chromium	mg/kg dw	63.7	51.6	42.5	na	na	na	36	36	37.6	na	na	39.9	75.0	92	34.9
Cobalt	mg/kg dw	10.8	11.9	11.8	na	na	na	9.5	10.8	11.5	na	na	10.1	10.3	10.8	7.3
Copper	mg/kg dw	106	69.5	72.2	na	na	na	98.2	90.1	103	na	na	113 J	114 J	116	53.9
Lead	mg/kg dw	140	68	60	na	na	na	56	55	116	na	na	105	158	113	79
Mercury	mg/kg dw	0.71	0.51	0.7	0.68	0.42	0.05 U	0.29	0.29	0.31	na	na	0.38	0.85	0.98	0.35
Molybdenum	mg/kg dw	2.4	1.4	0.9 U	na	na	na	1	1	1.3	na	na	1.6	2.6	2	1.3
Nickel	mg/kg dw	26	24	21	na	na	na	23	26	25	na	na	26 J	28 J	34	20
Selenium	mg/kg dw	8 U	9 U	9 U	na	na	na	10 U	10 U	9 U	na	na	9 U	9 U	10 U	8 U
Silver	mg/kg dw	3.0	1.7	2.1	na	na	na	0.6 U	0.6 U	0.8	na	na	0.7	4.5	4.3	0.5
Thallium	mg/kg dw	8 U	9 U	9 U	na	na	na	10 U	10 U	9 U	na	na	9 U	9 U	10 U	8 U
Vanadium	mg/kg dw	69.4	75.7	79.0	na	na	na	73.0	76.4	83.4	na	na	75.7	79.4	95.1	63.9
Zinc	mg/kg dw	232	133	124	na	na	na	165	162	373	na	na	303	428	240	137
Organometals																
Monobutyltin as ion	µg/kg dw	4.0 U	4.0 U	4.0 U	na	na	na	11	5.9	3.9 U	7.9 U	na	na	na	na	na
Dibutyltin as ion	µg/kg dw	11	5.6 U	5.7 U	na	na	na	14	22	29	11 U	na	na	na	na	na
Tributyltin as ion	µg/kg dw	67	3.7 U	3.8 U	na	na	na	65	71	150	14	na	na	na	na	na
PAHs																
1-Methylnaphthalene	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	70	66 U
2-Chloronaphthalene	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
2-Methylnaphthalene	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
Acenaphthene	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	15 J	120	360	99

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC14						LDW-SC15					LDW-SC16			
ANALYTE	UNIT	LDW-SC14-0-1.4	LDW-SC14-1.4-2	LDW-SC14-2-4.1	LDW-SC14-4.1-6	LDW-SC14-6-8.7	LDW-SC14-10-11	LDW-SC15-0-1	LDW-SC15-1-2	LDW-SC15-2-4	LDW-SC15-4-6	LDW-SC15-8-10	LDW-SC16-0-2	LDW-SC16-2-4	LDW-SC16-4-6	LDW-SC16-8-10
Acenaphthylene	µg/kg dw	60 U	20 U	11 J	66 U	na	na	31 J	59 U	60 U	na	na	38	78 U	56 J	66 U
Anthracene	µg/kg dw	60	28	36	52 J	na	na	100	65	75	na	na	150	180	580	46 J
Benzo(a)anthracene	µg/kg dw	160	61	78	110	na	na	300	190	250	na	na	660	360	1,600	100
Benzo(a)pyrene	µg/kg dw	230	77	100	130	na	na	360	300	390	na	na	430	250	820	88
Benzo(b)fluoranthene	µg/kg dw	340	120	140	170	na	na	510	460	520	na	na	810	370	1,400	130
Benzo(g,h,i)perylene	µg/kg dw	41 J	12 J	20	71	na	na	100	90	110	na	na	100	67 J	130	51 J
Benzo(k)fluoranthene	µg/kg dw	300	110	150	100	na	na	430	380	500	na	na	530	270	740	63 J
Total benzofluoranthenes	µg/kg dw	640	230	290	270	na	na	940	840	1,020	na	na	1,340	640	2,100	190 J
Chrysene	µg/kg dw	190	74	120	150	na	na	500	340	370	na	na	1,000	410	1,700	130
Dibenzo(a,h)anthracene	µg/kg dw	60 U	20 U	20 U	36	na	na	59 U	59 U	60 U	na	na	30	78 U	110	25
Dibenzofuran	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	150	66 U
Fluoranthene	µg/kg dw	360	160	170	250	na	na	480	400	570	na	na	4,700	1,300	4,900	210
Fluorene	µg/kg dw	60 U	20 U	13 J	66 U	na	na	59 U	59 U	60 U	na	na	18 J	140	200	42 J
Indeno(1,2,3-cd)pyrene	µg/kg dw	47 J	16 J	25	55 J	na	na	120	100	130	na	na	120	69 J	140	42 J
Naphthalene	µg/kg dw	60 U	20 U	14 J	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	73	66 U
Phenanthrene	µg/kg dw	120	44	64	100	na	na	180	130	200	na	na	180	250	590	88
Pyrene	µg/kg dw	460	300	360	600	na	na	490	470	690	na	na	3,400	1,100	10,000	390
Total HPAH	µg/kg dw	2,130 J	930 J	1,160	1,670 J	na	na	3,290	2,730	3,530	na	na	11,800	4,200 J	22,000	1,230 J
Total LPAH	µg/kg dw	180	72	138 J	150 J	na	na	310 J	200	280	na	na	400 J	690	1,860 J	275 J
Carcinogenic PAHs	µg/kg dw	330 J	110 J	140	190 J	na	na	510	430	550	na	na	660	380 J	1,300	130 J
Total PAH	µg/kg dw	2,310 J	1,000 J	1,300 J	1,820 J	na	na	3,600 J	2,930	3,810	na	na	12,200 J	4,900 J	23,000 J	1,500 J
Phthalates																
Bis(2-ethylhexyl)phthalate	µg/kg dw	1,200	470	250	160	na	na	350	290	480	na	na	400	3,100	1,600	66 U
Butyl benzyl phthalate	µg/kg dw	100	51	110	24	na	na	34	31	39	na	na	29 J	33 J	12 J	6.6 U
Diethyl phthalate	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
Dimethyl phthalate	µg/kg dw	60 U	20 U	20 U	6.6 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	44 UJ	6.6 U
Di-n-butyl phthalate	µg/kg dw	60 U	12 J	23 U	66 U	na	na	31 J	31 J	44 J	na	na	20 U	78 U	67	66 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC14						LDW-SC15					LDW-SC16			
ANALYTE	UNIT	LDW-SC14-0-1.4	LDW-SC14-1.4-2	LDW-SC14-2-4.1	LDW-SC14-4.1-6	LDW-SC14-6-8.7	LDW-SC14-10-11	LDW-SC15-0-1	LDW-SC15-1-2	LDW-SC15-2-4	LDW-SC15-4-6	LDW-SC15-8-10	LDW-SC16-0-2	LDW-SC16-2-4	LDW-SC16-4-6	LDW-SC16-8-10
Di-n-octyl phthalate	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
Other SVOCs																
1,2,4-Trichlorobenzene	µg/kg dw	7.1	5.3 J	4.7 J	6.6 U	na	na	5.9 U	5.9 U	6.0 U	na	na	5.9 U	7.8 U	18	6.6 U
1,2-Dichlorobenzene	µg/kg dw	6.6	5.3 J	5.9 U	6.6 U	na	na	5.9 U	5.9 U	6.0 U	na	na	5.9 U	7.0 J	12	6.6 U
1,3-Dichlorobenzene	µg/kg dw	60 U	20 U	20 U	6.6 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	6.5 U	6.6 U
1,4-Dichlorobenzene	µg/kg dw	6.0	3.5 J	5.9 U	5.3 J	na	na	3.6 J	5.9 U	3.0 J	na	na	5.9 U	5.4 J	9.2	6.6 U
2,4,5-Trichlorophenol	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 U	300 U	300 U	na	na	99 U	390 U	330 U	330 U
2,4,6-Trichlorophenol	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 U	300 U	300 U	na	na	99 U	390 U	330 U	330 U
2,4-Dichlorophenol	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 U	300 U	300 U	na	na	99 U	390 U	330 U	330 U
2,4-Dimethylphenol	µg/kg dw	6.0 UJ	5.9 UJ	5.9 UJ	7.3 J	na	na	5.9 U	5.9 U	6.0 U	na	na	18 UJ	20 UJ	6.5 UJ	6.6 UJ
2,4-Dinitrophenol	µg/kg dw	600 UJ	200 UJ	200 UJ	660 U	na	na	590 UJ	590 UJ	600 UJ	na	na	200 U	780 U	650 U	660 U
2,4-Dinitrotoluene	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 U	300 U	300 U	na	na	99 U	390 U	330 U	330 U
2,6-Dinitrotoluene	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 U	300 U	300 U	na	na	99 U	390 U	330 U	330 U
2-Chlorophenol	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
2-Methylphenol	µg/kg dw	6.0 U	5.9 U	5.9 U	6.6 U	na	na	5.9 U	5.9 U	6.0 U	na	na	3.0 J	7.8 UJ	6.5 U	6.6 U
2-Nitroaniline	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 U	300 U	300 U	na	na	99 U	390 U	330 U	330 U
2-Nitrophenol	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 U	300 U	300 U	na	na	99 U	390 U	330 U	330 U
3,3'-Dichlorobenzidine	µg/kg dw	300 UJ	98 UJ	98 UJ	330 U	na	na	300 UJ	300 UJ	300 UJ	na	na	99 UJ	390 UJ	330 U	330 U
3-Nitroaniline	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 U	300 U	300 U	na	na	99 UJ	390 UJ	330 U	330 U
4,6-Dinitro-o-cresol	µg/kg dw	600 UJ	200 UJ	200 UJ	660 U	na	na	590 UJ	590 UJ	600 UJ	na	na	200 U	780 U	650 U	660 U
4-Bromophenyl phenyl ether	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
4-Chloro-3-methylphenol	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 U	300 U	300 U	na	na	99 U	390 U	330 U	330 U
4-Chloroaniline	µg/kg dw	300 UJ	98 UJ	98 UJ	330 U	na	na	300 UJ	300 UJ	300 UJ	na	na	99 UJ	390 UJ	330 U	330 U
4-Chlorophenyl phenyl ether	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
4-Methylphenol	µg/kg dw	60 U	20 U	20 U	66 U	na	na	42 J	59 U	60 U	na	na	20 U	78 U	65 U	66 U
4-Nitroaniline	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 U	300 U	300 U	na	na	99 U	390 U	330 U	330 U
4-Nitrophenol	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 UJ	300 UJ	300 UJ	na	na	99 U	390 U	330 U	330 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC14						LDW-SC15					LDW-SC16			
ANALYTE	UNIT	LDW-SC14-0-1.4	LDW-SC14-1.4-2	LDW-SC14-2-4.1	LDW-SC14-4.1-6	LDW-SC14-6-8.7	LDW-SC14-10-11	LDW-SC15-0-1	LDW-SC15-1-2	LDW-SC15-2-4	LDW-SC15-4-6	LDW-SC15-8-10	LDW-SC16-0-2	LDW-SC16-2-4	LDW-SC16-4-6	LDW-SC16-8-10
Aniline	µg/kg dw	60 UJ	20 UJ	20 UJ	66 U	na	na	59 UJ	59 UJ	60 UJ	na	na	20 UJ	78 UJ	65 U	66 U
Benzoic acid	µg/kg dw	97	82	120	590 U	na	na	130 J	120 J	130 J	na	na	63 UJ	86 UJ	590 U	590 U
Benzyl alcohol	µg/kg dw	30 U	30 U	29 U	33 U	na	na	30 U	30 U	30 U	na	na	30 UJ	28 J	52	33 U
bis(2-chloroethoxy) methane	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
bis(2-chloroethyl)ether	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
bis(2-chloroisopropyl) ether	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
Hexachlorobenzene	µg/kg dw	6.0 U	5.9 U	4.9 U	6.6 U	na	na	5.9 U	5.9 U	6.0 U	na	na	5.9 U	7.8 U	6.5 U	6.6 U
Hexachlorobutadiene	µg/kg dw	6.0 U	5.9 U	4.9 U	6.6 U	na	na	5.9 U	5.9 U	6.0 U	na	na	5.9 U	7.8 U	6.5 U	6.6 U
Hexachlorocyclopenta-diene	µg/kg dw	300 U	98 U	98 U	330 U	na	na	300 UJ	300 UJ	300 UJ	na	na	99 U	390 U	330 U	330 U
Hexachloroethane	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
Isophorone	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
Nitrobenzene	µg/kg dw	60 U	20 U	20 U	66 U	na	na	59 U	59 U	60 U	na	na	20 U	78 U	65 U	66 U
N-Nitrosodimethylamine	µg/kg dw	30 U	30 U	29 U	33 U	na	na	30 U	30 U	30 U	na	na	30 UJ	39 UJ	33 U	33 U
N-Nitroso-di-n-propylamine	µg/kg dw	30	21 J	29 U	33 U	na	na	30 U	30 U	30 U	na	na	30 UJ	39 UJ	33 U	33 U
N-Nitrosodiphenylamine	µg/kg dw	26 U	20 U	26 U	75 U	na	na	26 U	23 U	38 U	na	na	37 U	220 U	190 U	34 U
Pentachlorophenol	µg/kg dw	30 U	30 U	29 U	39	na	na	28 J	24 J	43	na	na	30 U	39 U	50	33 U
Phenol	µg/kg dw	60 U	18 J	13 J	66 U	na	na	38 J	59 U	51 J	na	na	21	57 J	65 U	66 U
Polychlorinated biphenyls																
Aroclor-1016	µg/kg dw	350 U	180 U	79 U	39 U	4.0 U	3.9 U	41 U	20 U	40 U	4.0 U	4.0 U	20 UJ	3.9 U	140 U	3.8 U
Aroclor-1221	µg/kg dw	350 U	180 U	79 U	16 U	4.0 U	3.9 U	41 U	20 U	40 U	4.0 U	4.0 U	20 UJ	3.9 U	140 U	3.8 U
Aroclor-1232	µg/kg dw	350 U	180 U	79 U	79 U	4.0 U	3.9 U	41 U	20 U	40 U	4.0 U	4.0 U	20 UJ	3.9 U	140 U	3.8 U
Aroclor-1242	µg/kg dw	350 U	180 U	79 U	59 U	4.0 U	3.9 U	41 U	20 U	40 U	900	4.0 U	20 UJ	3.9 U	610	7.7 U
Aroclor-1248	µg/kg dw	1,600	820	400	59 U	5.9 U	3.9 U	100	63	160	4.0 U	4.0 U	77 J	2,100	140 U	7.7 U
Aroclor-1254	µg/kg dw	2,000	860	610	180	31	3.9 U	140	140	170	480	4.0 U	140 J	2,500	1,600	3.8 U
Aroclor-1260	µg/kg dw	870	380	540	240	39	3.9 U	120	140 J	180	570	4.0 U	110 J	840	1,200	18 J
Total PCBs	µg/kg dw	4,500	2,060	1,550	420	70	3.9 U	360	340 J	510	1,950	4.0 U	330 J	5,400	3,400	18 J

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC14						LDW-SC15					LDW-SC16			
ANALYTE	UNIT	LDW-SC14-0-1.4	LDW-SC14-1.4-2	LDW-SC14-2-4.1	LDW-SC14-4.1-6	LDW-SC14-6-8.7	LDW-SC14-10-11	LDW-SC15-0-1	LDW-SC15-1-2	LDW-SC15-2-4	LDW-SC15-4-6	LDW-SC15-8-10	LDW-SC16-0-2	LDW-SC16-2-4	LDW-SC16-4-6	LDW-SC16-8-10
Pesticides																
2,4'-DDD	µg/kg dw	17 U	18 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDE	µg/kg dw	100 U	18 U	41 U	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDT	µg/kg dw	17 U	18 UJ	9.8 UJ	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg dw	17 U	18 UJ	39 UJ	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg dw	90 U	50 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg dw	150 U	100 U	71 U	na	na	na	na	na	na	na	na	na	na	na	na
Total DDTs	µg/kg dw	150 U	100 U	71 U	na	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	31 U	18 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	31 U	18 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
alpha-BHC	µg/kg dw	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
beta-BHC	µg/kg dw	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
delta-BHC	µg/kg dw	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Chlordane	µg/kg dw	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
gamma-Chlordane	µg/kg dw	75 U	47 U	25 U	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Endosulfan	µg/kg dw	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
beta-Endosulfan	µg/kg dw	17 U	18 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg dw	39 U	18 U	22 U	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg dw	140 U	86 U	54 U	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg dw	17 U	18 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg dw	17 U	18 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor epoxide	µg/kg dw	95 U	62 U	33 U	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg dw	87 U	92 U	49 U	na	na	na	na	na	na	na	na	na	na	na	na
Mirex	µg/kg dw	17 U	18 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC14						LDW-SC15					LDW-SC16			
ANALYTE	UNIT	LDW-SC14-0-1.4	LDW-SC14-1.4-2	LDW-SC14-2-4.1	LDW-SC14-4.1-6	LDW-SC14-6-8.7	LDW-SC14-10-11	LDW-SC15-0-1	LDW-SC15-1-2	LDW-SC15-2-4	LDW-SC15-4-6	LDW-SC15-8-10	LDW-SC16-0-2	LDW-SC16-2-4	LDW-SC16-4-6	LDW-SC16-8-10
cis-Nonachlor	µg/kg dw	17 U	18 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Oxychlordane	µg/kg dw	17 U	18 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg dw	870 U	920 U	490 U	na	na	na	na	na	na	na	na	na	na	na	na
trans-Nonachlor	µg/kg dw	17 U	18 U	9.8 U	na	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	75 U	47 U	25 U	na	na	na	na	na	na	na	na	na	na	na	na
Grain size																
Fractional % phi >-1 (>2000 µm)	% dw	*2*	0.1	0.7	na	na	na	1.4	0.2	0.1	na	na	0.7	2.5	na	na
Fractional % phi -1-0 (1000-2000 µm)	% dw	*0.9*	0.5	0.3	na	na	na	2.7	0.5	0.4	na	na	1.0	0.7	na	na
Fractional % phi 0-1 (500-1000 µm)	% dw	*4.0*	2.2	0.6	na	na	na	1.9	0.8	0.8	na	na	1.4	3.6	na	na
Fractional % phi 1-2 (250-500 µm)	% dw	*5.7*	4.9	3.6	na	na	na	1.7	1.0	0.8	na	na	2.2	3.1	na	na
Fractional % phi 2-3 (125-250 µm)	% dw	*4.5*	2.4	1.5	na	na	na	1.7	1.1	1.0	na	na	3.4	1.6	na	na
Fractional % phi 3-4 (62.5-125 µm)	% dw	*6.9*	6.4	3.5	na	na	na	4.6	2.7	2.7	na	na	5.0	2.1	na	na
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	*7.7*	9.9	9.9	na	na	na	10.6	6.7	5.9	na	na	9.8	4.3	na	na
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	*19.4*	17.2	14.8	na	na	na	16.2	16.6	12.8	na	na	15.2	9.8	na	na
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	*22.5*	26.7	28.4	na	na	na	19.5	26.3	20.1	na	na	22.2	18.6	na	na
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	*8.4*	9.0	10.9	na	na	na	14.1	14.9	17.5	na	na	13.0	13.7	na	na
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	*4.9*	5.1	6.6	na	na	na	8.7	8.9	11.5	na	na	8.1	10.7	na	na
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	*4.3*	4.9	6.2	na	na	na	5.6	7.1	7.4	na	na	5.7	9.0	na	na
Fractional % phi 10+ (<0.98 µm)	% dw	*9.3*	10.6	13.2	na	na	na	11.3	13.2	18.9	na	na	12.5	20.2	na	na
Rocks (total calc'd)	% dw	*2*	0.1	0.7	na	na	na	1.4	0.2	0.1	na	na	0.7	2.5	na	na
Sand (total calc'd)	% dw	*22.0*	16.4	9.5	na	na	na	12.6	6.1	5.7	na	na	13.0	11.1	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC14						LDW-SC15					LDW-SC16			
ANALYTE	UNIT	LDW-SC14-0-1.4	LDW-SC14-1.4-2	LDW-SC14-2-4.1	LDW-SC14-4.1-6	LDW-SC14-6-8.7	LDW-SC14-10-11	LDW-SC15-0-1	LDW-SC15-1-2	LDW-SC15-2-4	LDW-SC15-4-6	LDW-SC15-8-10	LDW-SC16-0-2	LDW-SC16-2-4	LDW-SC16-4-6	LDW-SC16-8-10
Silt (total calc'd)	% dw	*58.0*	62.8	64.0	na	na	na	60.4	64.5	56.3	na	na	60.2	46.4	na	na
Clay (total calc'd)	% dw	*18.5*	20.6	26.0	na	na	na	25.6	29.2	37.8	na	na	26.3	39.9	na	na
Fines (percent silt+clay)	% dw	*76.5*	83.4	90.0	na	na	na	86.0	93.7	94.1	na	na	86.5	86.3	na	na
Conventional parameters																
Total organic carbon (TOC)	% dw	*1.72*	1.63	1.72	1.82	1.55	0.403	2.37	1.96	1.62	2.19	0.163	2.02	*2.96*	2.24	*1.76*
Total solids	% ww	56.80	*52.28*	51.10	54.40	58.50	75.60	48.20	50.90	52.50	52.50	80.80	50.80	*48.08*	52.00	*62.55*
Geotechnical																
Bulk density (dry)	pcf	51.8	na	58.7	na	na	na	48.3	na	51.2	na	na	51.1	36.2	na	na
Bulk density (wet)	pcf	97.0	na	101.8	na	na	na	92.3	na	94.6	na	na	97.1	80	na	na
Moisture	% dw	87.29	na	73.32	na	na	na	91.17	na	84.85	na	na	90.0	120.9	na	na
Specific gravity	g/cc	2.62	na	2.66	na	na	na	2.63	na	2.66	na	na	2.62	2.76	na	na
Atterberg limits classification	none	OH	na	OH	na	na	na	OH	na	OH	na	na	MH	MH	na	na
Liquid limit	% dw	69.8	na	60.8	na	na	na	75.3	na	78.2	na	na	81.7	88.6	na	na
Plastic limit	% dw	45.9	na	31.6	na	na	na	35.6	na	35.5	na	na	37.8	41.0	na	na
Plasticity index	% dw	23.9	na	29.2	na	na	na	39.7	na	42.7	na	na	43.9	47.6	na	na
Porosity	S.U.	0.68	na	0.65	na	na	na	0.71	na	0.69	na	na	0.69	0.79	na	na

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1e. 1- and 2-ft intervals, samples SC17 through SC20

1- AND 2-FT INTERVALS		LDW-SC17				LDW-SC18			LDW-SC19						LDW-SC20			
ANALYTE	UNIT	LDW-SC17-0-1	LDW-SC17-1-2	LDW-SC17-2-4	LDW-SC17-6-8.2	LDW-SC18-0-1	LDW-SC18-1-2	LDW-SC18-2-4	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC19-4-6	LDW-SC19-6-7	LDW-SC19-9-11.9	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10
Metals and trace elements																		
Antimony	mg/kg dw	20 J	40 J	60 J	13 J	6 UJ	6 UJ	6 UJ	10 UJ	10 UJ	8 UJ	na	na	na	10 UJ	*9 UJ*	na	na
Arsenic	mg/kg dw	110	170	60	76	11	6 U	6 U	20	20	24	na	na	na	20	*17*	na	na
Cadmium	mg/kg dw	4.5	7.6	15	20.4	0.3	0.2 U	0.2 U	0.4 U	0.4 U	0.3 U	na	na	na	1.9	*0.7*	na	na
Chromium	mg/kg dw	47	47	386	50.3	22.0	14.3	10.5	36	35	30.6	na	na	na	67	*34.7*	na	na
Cobalt	mg/kg dw	12.6	15.6	20	11.9	6.0	5.1	3.9	8.6	10.1	8.7	na	na	na	11.7	*11.0*	na	na
Copper	mg/kg dw	187	224	219	235	37.9	18.5	12.7	101	89.2	87.9	na	na	na	90.4	*57.0*	na	na
Lead	mg/kg dw	173	286	1,740	470	22	7	2 U	60	50	70	na	na	na	82	*33*	na	na
Mercury	mg/kg dw	0.5	0.6	1.29	0.75	0.11	0.05 U	0.05 U	0.34	0.25	0.21	na	na	na	0.65	*0.35*	na	na
Molybdenum	mg/kg dw	11	16	9	7.7	0.9	0.6 U	0.6 U	1	1	1.3	na	na	na	2	*0.9 U*	na	na
Nickel	mg/kg dw	36	38	226	69	14	10	7	24	26	22	na	na	na	28	*22*	na	na
Selenium	mg/kg dw	10 U	10 U	30 U	9 U	6 U	6 U	6 U	10 U	10 U	8 U	na	na	na	10 U	*9 U*	na	na
Silver	mg/kg dw	1.0	1.4	2	2.2	0.4 U	0.4 U	0.4 U	0.6 U	0.6 U	0.5 U	na	na	na	2.3	*0.6*	na	na
Thallium	mg/kg dw	10 U	10 U	30 U	9 U	6 U	6 U	6 U	10 U	10 U	8 U	na	na	na	10 U	*9 U*	na	na
Vanadium	mg/kg dw	83.0	84.3	223	112	49.9	44.7	38.7	69.2	75.4	64.4	na	na	na	86.9	*79.9*	na	na
Zinc	mg/kg dw	1,260	2,050	3,840	4,550	79.0	34.3	20.3	162	148	150	na	na	na	173	*104*	na	na
Organometals																		
Monobutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	3.9 U	4.0 UJ	na	na
Dibutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	5.6 U	5.7 U	na	na
Tributyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	3.7 U	3.8 U	na	na
PAHs																		
1-Methylnaphthalene	µg/kg dw	62 U	99 U	2,600	400	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
2-Chloronaphthalene	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
2-Methylnaphthalene	µg/kg dw	69	99 U	4,500	610	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
Acenaphthene	µg/kg dw	65	380	4,600	1,200	48 J	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
Acenaphthylene	µg/kg dw	67	90 J	93 J	98	59 U	20 U	20 U	46 J	48 J	59 U	na	na	na	11 J	20 UJ	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC17				LDW-SC18			LDW-SC19						LDW-SC20			
ANALYTE	UNIT	LDW-SC17-0-1	LDW-SC17-1-2	LDW-SC17-2-4	LDW-SC17-6-8.2	LDW-SC18-0-1	LDW-SC18-1-2	LDW-SC18-2-4	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC19-4-6	LDW-SC19-6-7	LDW-SC19-9-11.9	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10
Anthracene	µg/kg dw	520	1,600	1,900	1,700	150	20 U	20 U	150	130	63	na	na	na	43	21 J	na	na
Benzo(a)anthracene	µg/kg dw	1,100	1,500 J	1,500	2,100	490	16 J	20 U	380	180	150	na	na	na	86	38 J	na	na
Benzo(a)pyrene	µg/kg dw	1,300	1,400	940	1,600	340	27	20 U	300	390	200	na	na	na	94	39 J	na	na
Benzo(b)fluoranthene	µg/kg dw	2,200	1,800	1,700	2,500	500	40	20 U	610	860	450	na	na	na	150	77 J	na	na
Benzo(g,h,i)perylene	µg/kg dw	250	490	140 J	350	82	20 U	20 U	82	68	62	na	na	na	20 J	20 UJ	na	na
Benzo(k)fluoranthene	µg/kg dw	1,300	1,400	990	1,300	470	30	20 U	510	560	330	na	na	na	120	49 J	na	na
Total benzofluoranthenes	µg/kg dw	3,500	3,200	2,700	3,800	970	70	20 U	1,120	1,420	780	na	na	na	270	126 J	na	na
Chrysene	µg/kg dw	1,800	2,400 J	1,800	2,600	740	17 J	20 U	700	440	230	na	na	na	120	50 J	na	na
Dibenzo(a,h)anthracene	µg/kg dw	80	140	140 U	260	59 U	20 U	20 U	38 J	40 J	59 U	na	na	na	20 U	20 UJ	na	na
Dibenzofuran	µg/kg dw	77	210	1,700	710	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
Fluoranthene	µg/kg dw	2,000	5,600	7,400	7,100	2,600	36	20 U	660	270	260	na	na	na	290	160 J	na	na
Fluorene	µg/kg dw	110	340	4,300	1,400	36 J	20 U	20 U	46 J	49 J	59 U	na	na	na	12 J	20 UJ	na	na
Indeno(1,2,3-cd)pyrene	µg/kg dw	320	570 J	180	320	94	20 U	20 U	92	92	69	na	na	na	18 J	20 UJ	na	na
Naphthalene	µg/kg dw	120	150	3,400	1,200	35 J	20 U	20 U	60 U	59 U	59 U	na	na	na	12 J	20 UJ	na	na
Phenanthrene	µg/kg dw	560	1,200	13,000	4,200	290	20 U	20 U	250	200	160	na	na	na	66	46 J	na	na
Pyrene	µg/kg dw	2,400	3,700 J	5,700	7,600	1,700	76	20 U	1,200 J	2,100 J	800 J	na	na	na	320	160 J	na	na
Total HPAH	µg/kg dw	12,800	19,000 J	20,400 J	25,700	7,000	242 J	20 U	4,600 J	5,000 J	2,550 J	na	na	na	1,220 J	570 J	na	na
Total LPAH	µg/kg dw	1,440	3,800 J	27,000 J	9,800	560 J	20 U	20 U	490 J	430 J	220	na	na	na	144 J	67 J	na	na
Carcinogenic PAHs	µg/kg dw	1,800	2,000 J	1,400	2,400	510	41 J	18 U	480 J	580 J	310	na	na	na	140 J	61 J	na	na
Total PAH	µg/kg dw	14,200	22,800 J	48,000 J	35,500	7,600 J	242 J	20 U	5,100 J	5,400 J	2,770 J	na	na	na	1,360 J	640 J	na	na
Phthalates																	na	na
Bis(2-ethylhexyl)phthalate	µg/kg dw	570	440 J	2,300	1,000	87	18 J	20 U	220	140	270	na	na	na	620	71 J	na	na
Butyl benzyl phthalate	µg/kg dw	40	44	42 U	15 J	5.9 U	5.9 U	5.9 U	34	14	15	na	na	na	41	17	na	na
Diethyl phthalate	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
Dimethyl phthalate	µg/kg dw	62 U	99 U	140 U	69 J	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
Di-n-butyl phthalate	µg/kg dw	62 U	99 U	140 U	66 U	59 U	62	14 J	60 U	59 U	30 J	na	na	na	24	23 J	na	na
Di-n-octyl phthalate	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
Other SVOCs																		

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC17				LDW-SC18			LDW-SC19						LDW-SC20			
ANALYTE	UNIT	LDW-SC17-0-1	LDW-SC17-1-2	LDW-SC17-2-4	LDW-SC17-6-8.2	LDW-SC18-0-1	LDW-SC18-1-2	LDW-SC18-2-4	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC19-4-6	LDW-SC19-6-7	LDW-SC19-9-11.9	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10
1,2,4-Trichlorobenzene	µg/kg dw	9.3 J	17 J	110 J	6.6 U	5.9 U	5.9 U	5.9 U	6.0 U	6.0 U	5.9 U	na	na	na	6.0 U	6.0 U	na	na
1,2-Dichlorobenzene	µg/kg dw	6.2 U	6.0 U	42 U	6.6 U	5.9 U	5.9 U	5.9 U	6.0 U	6.0 U	5.9 U	na	na	na	6.0 U	6.0 U	na	na
1,3-Dichlorobenzene	µg/kg dw	62 U	99 U	140 U	6.6 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
1,4-Dichlorobenzene	µg/kg dw	16	4.2 J	42 U	4.0 J	5.9 U	5.9 U	5.9 U	6.0 U	6.0 U	5.9 U	na	na	na	6.0 U	20	na	na
2,4,5-Trichlorophenol	µg/kg dw	310 U	500 U	700 U	330 U	290 U	99 U	98 U	300 U	300 U	300 U	na	na	na	100 U	100 U	na	na
2,4,6-Trichlorophenol	µg/kg dw	310 U	500 U	700 U	330 U	290 U	99 U	98 U	300 U	300 U	300 U	na	na	na	100 U	100 U	na	na
2,4-Dichlorophenol	µg/kg dw	310 U	500 U	700 U	330 U	290 U	99 U	98 U	300 U	300 U	300 U	na	na	na	100 U	100 U	na	na
2,4-Dimethylphenol	µg/kg dw	6.2 UJ	14 J	42 UJ	24 J	5.9 U	5.9 U	5.9 U	6.0 U	6.0 U	5.9 U	na	na	na	6.0 U	6.0 U	na	na
2,4-Dinitrophenol	µg/kg dw	620 UJ	990 UJ	1,400 UJ	660 U	590 UJ	200 UJ	200 UJ	600 UJ	590 UJ	590 UJ	na	na	na	200 U	200 U	na	na
2,4-Dinitrotoluene	µg/kg dw	310 U	500 U	700 U	330 U	290 U	99 U	98 U	300 U	300 U	300 U	na	na	na	100 U	100 UJ	na	na
2,6-Dinitrotoluene	µg/kg dw	310 U	500 U	700 U	330 U	290 U	99 U	98 U	300 U	300 U	300 U	na	na	na	100 U	100 UJ	na	na
2-Chlorophenol	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 U	na	na
2-Methylphenol	µg/kg dw	5.0 J	16	42 U	6.6	5.9 U	5.9 U	5.9 U	4.8 J	6.0 U	5.9 U	na	na	na	6.0 U	6.0 U	na	na
2-Nitroaniline	µg/kg dw	310 U	500 U	700 U	330 U	290 U	99 U	98 U	300 U	300 U	300 U	na	na	na	100 U	100 UJ	na	na
2-Nitrophenol	µg/kg dw	310 U	500 U	700 U	330 U	290 U	99 U	98 U	300 U	300 U	300 U	na	na	na	100 U	100 U	na	na
3,3'-Dichlorobenzidine	µg/kg dw	310 UJ	500 UJ	700 UJ	330 U	290 UJ	99 UJ	98 UJ	300 UJ	300 UJ	300 UJ	na	na	na	100 UJ	100 UJ	na	na
3-Nitroaniline	µg/kg dw	310 U	500 U	700 U	330 U	290 U	99 U	98 U	300 UJ	300 UJ	300 UJ	na	na	na	100 U	100 UJ	na	na
4,6-Dinitro-o-cresol	µg/kg dw	620 UJ	990 UJ	1,400 UJ	660 U	590 UJ	200 UJ	200 UJ	600 UJ	590 UJ	590 UJ	na	na	na	200 U	200 U	na	na
4-Bromophenyl phenyl ether	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
4-Chloro-3-methylphenol	µg/kg dw	310 U	500 U	700 U	330 U	290 U	99 U	98 U	300 U	300 U	300 U	na	na	na	100 U	100 U	na	na
4-Chloroaniline	µg/kg dw	310 UJ	500 UJ	700 UJ	330 U	290 UJ	99 UJ	98 UJ	300 UJ	300 UJ	300 UJ	na	na	na	100 UJ	100 UJ	na	na
4-Chlorophenyl phenyl ethe	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
4-Methylphenol	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 U	na	na
4-Nitroaniline	µg/kg dw	310 U	500 U	700 U	330 U	290 U	99 U	98 U	300 UJ	300 UJ	300 UJ	na	na	na	100 U	100 UJ	na	na
4-Nitrophenol	µg/kg dw	310 U	500 UJ	700 U	330 U	290 UJ	99 UJ	98 UJ	300 U	300 U	300 U	na	na	na	100 U	100 U	na	na
Aniline	µg/kg dw	62 UJ	99 UJ	140 UJ	66 U	59 UJ	20 UJ	20 UJ	60 UJ	59 UJ	59 UJ	na	na	na	20 UJ	20 UJ	na	na
Benzoic acid	µg/kg dw	320	320	3,000 J	590 U	78 J	54 J	59 U	210 J	88 J	100 J	na	na	na	93	67	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC17				LDW-SC18			LDW-SC19						LDW-SC20			
ANALYTE	UNIT	LDW-SC17-0-1	LDW-SC17-1-2	LDW-SC17-2-4	LDW-SC17-6-8.2	LDW-SC18-0-1	LDW-SC18-1-2	LDW-SC18-2-4	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC19-4-6	LDW-SC19-6-7	LDW-SC19-9-11.9	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10
Benzyl alcohol	µg/kg dw	140	38	210 U	33 U	29 U	30 U	29 U	30 U	30 U	30 U	na	na	na	30 U	30 U	na	na
bis(2-chloroethoxy) methane	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
bis(2-chloroethyl)ether	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
bis(2-chloroisopropyl) ether	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
Hexachlorobenzene	µg/kg dw	6.2 U	6.0 UJ	42 U	6.6 U	5.9 U	5.9 U	5.9 U	6.0 U	6.0 U	5.9 U	na	na	na	6.0 U	1.9 U	na	na
Hexachlorobutadiene	µg/kg dw	6.2 U	6.0 U	42 UJ	6.6 U	5.9 U	5.9 U	5.9 U	6.0 U	6.0 U	5.9 U	na	na	na	6.0 U	1.9 U	na	na
Hexachlorocyclopenta-diene	µg/kg dw	310 U	500 UJ	700 U	330 U	290 UJ	99 UJ	98 UJ	300 U	300 U	300 U	na	na	na	100 U	100 UJ	na	na
Hexachloroethane	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
Isophorone	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
Nitrobenzene	µg/kg dw	62 U	99 U	140 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	na	20 U	20 UJ	na	na
N-Nitrosodimethylamine	µg/kg dw	31 U	30 U	210 U	33 U	29 U	30 U	29 U	30 U	30 U	30 U	na	na	na	30 U	30 U	na	na
N-Nitroso-di-n-propylamine	µg/kg dw	31 U	30 U	210 U	33 U	29 U	30 U	29 U	30 U	30 U	30 U	na	na	na	30 U	30 U	na	na
N-Nitrosodiphenylamine	µg/kg dw	180 UJ	620 UJ	7,300 U	2,600 U	32 U	5.9 U	5.9 U	29 UJ	22 UJ	27 UJ	na	na	na	38 U	32 U	na	na
Pentachlorophenol	µg/kg dw	64	120 J	150 J	120	29 U	30 U	29 U	17 J	30 U	20 J	na	na	na	30 U	30 U	na	na
Phenol	µg/kg dw	62 U	69 J	140 U	66 U	59 U	20 U	20 U	170	82	59 U	na	na	na	20 U	20 U	na	na
Polychlorinated biphenyls																		
Aroclor-1016	µg/kg dw	220 U	85 U	900 U	180 U	27 U	3.9 U	3.9 U	40 U	40 U	20 U	3.9 U	39 U	3.9 U	180 U	37 U	48 U	3.8 UJ
Aroclor-1221	µg/kg dw	220 U	85 U	900 U	180 U	27 U	3.9 U	3.9 U	40 U	40 U	20 U	3.9 U	39 U	3.9 U	180 U	37 U	20 U	3.8 UJ
Aroclor-1232	µg/kg dw	220 U	85 U	900 U	180 U	27 U	3.9 U	3.9 U	40 U	40 U	20 U	3.9 U	39 U	3.9 U	180 U	37 U	60 U	3.8 UJ
Aroclor-1242	µg/kg dw	220 U	85 U	900 U	480	27 U	3.9 U	3.9 U	40 U	40 U	20 U	54	39 U	3.9 U	180 U	37 U	44	3.8 UJ
Aroclor-1248	µg/kg dw	390	320	1,700	180 U	38	5.0	3.9 U	65	59	43	3.9 U	710	3.9 U	1,200	76	83 U	3.8 UJ
Aroclor-1254	µg/kg dw	510	500	2,700	1,000	80	9.0	3.9 U	100	79	92	200	1,100	3.9 U	1,300	250	170	7.7 UJ
Aroclor-1260	µg/kg dw	320	220	5,400	450	64	5.6	3.9 U	110	95	110	190	610	3.9 U	730	270	190	95
Total PCBs	µg/kg dw	1,220	1,040	9,800	1,900	182	19.6	3.9 U	280	233	250	440	2,400	3.9 U	3,200	600	400	95
Pesticides																		
2,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	18 U	3.8 U	na	na
2,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	82 U	17 U	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC17				LDW-SC18			LDW-SC19						LDW-SC20			
ANALYTE	UNIT	LDW-SC17-0-1	LDW-SC17-1-2	LDW-SC17-2-4	LDW-SC17-6-8.2	LDW-SC18-0-1	LDW-SC18-1-2	LDW-SC18-2-4	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC19-4-6	LDW-SC19-6-7	LDW-SC19-9-11.9	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10
2,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	18 U	3.8 U	na	na
4,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	18 U	14 U	na	na
4,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	65 U	3.8 U	na	na
4,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	150 U	32 U	na	na
Total DDTs	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	150 U	32 U	na	na
Aldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
Dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	28 UJ	10 UJ	na	na
Total aldrin/dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	28 UJ	10 UJ	na	na
alpha-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
beta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
gamma-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
delta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
alpha-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
gamma-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	62 U	1.9 U	na	na
alpha-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
beta-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	18 U	3.8 U	na	na
Endosulfan sulfate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	54 U	11 U	na	na
Endrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	120 U	18 U	na	na
Endrin aldehyde	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	18 UJ	3.8 UJ	na	na
Endrin ketone	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	18 UJ	3.8 UJ	na	na
Heptachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
Heptachlor epoxide	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	80 U	10 U	na	na
Methoxychlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	91 UJ	19 UJ	na	na
Mirex	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	18 U	3.8 U	na	na
cis-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	18 U	3.8 U	na	na
Oxychlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	18 U	3.8 U	na	na
Toxaphene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	910 U	190 U	na	na
trans-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	18 U	3.8 U	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC17				LDW-SC18			LDW-SC19						LDW-SC20			
ANALYTE	UNIT	LDW-SC17-0-1	LDW-SC17-1-2	LDW-SC17-2-4	LDW-SC17-6-8.2	LDW-SC18-0-1	LDW-SC18-1-2	LDW-SC18-2-4	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC19-4-6	LDW-SC19-6-7	LDW-SC19-9-11.9	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10
Total chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	62 U	3.8 U	na	na
Grain size																		
Fractional % phi >-1 (>2000 µm)	% dw	19.0	20.2	28.5	na	30.9	2.1	0.4	0.1	0.2	0.1	na	na	na	*1*	na	na	na
Fractional % phi -1-0 (1000-2000 µm)	% dw	2.3	3.6	8.4	na	2.5	0.6	0.4	0.4	0.2	0.2	na	na	na	*0.3*	0.1	na	na
Fractional % phi 0-1 (500-1000 µm)	% dw	3.5	5.0	5.0	na	6.7	2.2	2.7	1.3	0.8	0.6	na	na	na	*1.4*	0.8	na	na
Fractional % phi 1-2 (250-500 µm)	% dw	4.7	5.7	7.0	na	29.5	29.8	22.9	2.0	0.7	1.5	na	na	na	*2.7*	1.2	na	na
Fractional % phi 2-3 (125-250 µm)	% dw	4.6	5.5	5.5	na	10.2	36.6	23.5	3.2	1.3	6.0	na	na	na	*1.9*	0.5	na	na
Fractional % phi 3-4 (62.5-125 µm)	% dw	4.0	4.3	3.6	na	2.6	7.8	18.8	6.1	3.6	9.9	na	na	na	*7.2*	3.4	na	na
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	10.7	1.5	1.8	na	1.8	5.6	14.6	11.0	7.5	15.1	na	na	na	*14.3*	6.7	na	na
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	10.9	9.3	5.6	na	3.8	4.9	6.9	17.7	14.8	9.4	na	na	na	*18.7*	20.7	na	na
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	12.9	15.4	9.8	na	3.5	3.2	3.9	17.8	24.7	17.9	na	na	na	*20.2*	21.4	na	na
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	9.4	10.3	8.1	na	2.9	2.5	1.9	12.8	14.2	12.9	na	na	na	*10.4*	12.4	na	na
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	5.5	5.6	5.3	na	1.9	1.5	1.2	6.7	8.7	7.5	na	na	na	*6.7*	10	na	na
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	3.3	4.1	5.1	na	1.2	0.9	0.6	6.4	6.2	5.2	na	na	na	*4.4*	6.6	na	na
Fractional % phi 10+ (<0.98 µm)	% dw	9.1	9.5	6.2	na	2.5	2.2	2.3	14.6	17.0	13.5	na	na	na	*10.6*	16.2	na	na
Rocks (total calc'd)	% dw	19.0	20.2	28.5	na	30.9	2.1	0.4	0.1	0.2	0.1	na	na	na	*1*	na	na	na
Sand (total calc'd)	% dw	19.1	24.1	29.5	na	51.5	77.0	68.3	13.0	6.6	18.2	na	na	na	*13.5*	6.0	na	na
Silt (total calc'd)	% dw	43.9	36.5	25.3	na	12.0	16.2	27.3	59.3	61.2	55.3	na	na	na	*63.6*	61.2	na	na
Clay (total calc'd)	% dw	17.9	19.2	16.6	na	5.6	4.6	4.1	27.7	31.9	26.2	na	na	na	*21.7*	33	na	na
Fines (percent silt+clay)	% dw	61.8	55.7	41.9	na	17.6	20.8	31.4	87.0	93.1	81.5	na	na	na	*85.3*	94	na	na
Conventional parameters																		
Total organic carbon (TOC)	% dw	3.06	3.25	6.35	3.24	1.77	0.963	1.63	2.28	1.70	1.56	1.26	1.54	0.190	*1.49*	1.50	2.22	*1.85*

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC17				LDW-SC18			LDW-SC19						LDW-SC20			
ANALYTE	UNIT	LDW-SC17-0-1	LDW-SC17-1-2	LDW-SC17-2-4	LDW-SC17-6-8.2	LDW-SC18-0-1	LDW-SC18-1-2	LDW-SC18-2-4	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC19-4-6	LDW-SC19-6-7	LDW-SC19-9-11.9	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10
Total solids	% ww	47.00	48.10	38.50	55.50	72.70	77.90	76.50	45.80	50.20	54.30	53.10	53.90	80.40	*54.15*	53.30	53.10	*60.48*
Geotechnical																		
Bulk density (dry)	pcf	na	51.4	36.8	na	na	89.0	98.8	na	na	64.0	na	na	na	53.5	58.2	na	na
Bulk density (wet)	pcf	na	93.5	75.0	na	na	120.2	125.9	na	na	105.2	na	na	na	98.1	102.7	na	na
Moisture	% dw	na	81.99	103.7	na	na	35.07	27.40	na	na	64.34	na	na	na	83.49	76.61	na	na
Specific gravity	g/cc	na	2.61	2.50	na	na	2.71	2.70	na	na	2.61	na	na	na	2.64	2.66	na	na
Atterberg limits classification	none	na	OH	OH	na	na	non-plastic	non-plastic	na	na	OH	na	na	na	OH	OH	na	na
Liquid limit	% dw	na	76.1	165	na	na	na	na	na	na	52.2	na	na	na	58.8	52.2	na	na
Plastic limit	% dw	na	40.2	46.4	na	na	na	na	na	na	28.9	na	na	na	35.1	32.2	na	na
Plasticity index	% dw	na	35.9	119	na	na	na	na	na	na	23.3	na	na	na	23.7	20	na	na
Porosity	S.U.	na	0.68	0.76	na	na	0.47	0.41	na	na	0.61	na	na	na	0.68	0.65	na	na

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1f. 1- and 2-ft intervals, samples SC21 through SC24

1- AND 2-FT INTERVALS		LDW-SC21					LDW-SC22			LDW-SC23					LDW-SC24		
ANALYTE	UNIT	LDW-SC21-0-1	LDW-SC21-1-2	LDW-SC21-2-4	LDW-SC21-4-6.2	LDW-SC21-10-11.3	LDW-SC22-0-1.1	LDW-SC22-1.1-2	LDW-SC22-2-4	LDW-SC23-0-2	LDW-SC23-2-4	LDW-SC23-4-6	LDW-SC23-6-8	LDW-SC23-8-10.2	LDW-SC24-0-1	LDW-SC24-1-2	LDW-SC24-2-4
Metals and trace elements																	
Antimony	mg/kg dw	*10 UJ*	9 UJ	8 UJ	na	na	*7 UJ*	6 UJ	6 UJ	8 UJ	9 UJ	na	na	na	9 UJ	7 UJ	7 UJ
Arsenic	mg/kg dw	*20*	19	34	na	na	*12*	8	7	18	20	na	na	na	30	11	7 U
Cadmium	mg/kg dw	*0.7*	0.4 U	0.6	na	na	*0.3*	0.3	0.3 U	0.5	0.4 U	na	na	na	0.4	0.3 U	0.3 U
Chromium	mg/kg dw	*36*	34.0	32.6	na	na	*19.4*	18.9	13.0	29.5	33.4	na	na	na	34.1	13.7	11.1
Cobalt	mg/kg dw	*10*	11.0	9.9	na	na	*6.6*	5.6	4.3	9.0	10.9	na	na	na	11.0	5.1	4.3
Copper	mg/kg dw	*95.5*	85.7	114	na	na	*52.9 J*	28.1 J	17.7 J	67.7	73.3	na	na	na	142	40	15.4
Lead	mg/kg dw	*55*	46	107	na	na	*46*	36	25	56 J	46 J	na	na	na	69	8	3 U
Mercury	mg/kg dw	*0.3*	0.20	0.26	na	na	*0.14*	0.14	0.06 U	0.20	0.20	na	na	na	0.26	0.05 U	0.05 U
Molybdenum	mg/kg dw	*1*	1.0	1.8	na	na	*2.3*	2.8	1.1	0.8 U	1.1	na	na	na	2.6	0.7 U	0.7 U
Nickel	mg/kg dw	*25*	27	21	na	na	*17 J*	15 J	9 J	22	28	na	na	na	24	9	7
Selenium	mg/kg dw	*10 U*	9 U	8 U	na	na	*7 U*	6 U	6 U	8 U	9 U	na	na	na	9 U	7 U	7 U
Silver	mg/kg dw	*0.6 U*	0.6 U	0.5 U	na	na	*0.4 U*	0.4 U	0.4 U	0.5 U	0.6 U	na	na	na	0.5 U	0.4 U	0.4 U
Thallium	mg/kg dw	*10 U*	9 U	8 U	na	na	*7 U*	6 U	6 U	8 U	9 U	na	na	na	9 U	7 U	7 U
Vanadium	mg/kg dw	*75.4*	81.5	69.1	na	na	*49.8*	47.4	43.9	65.0	71.5	na	na	na	71.2	46.4	41.0
Zinc	mg/kg dw	*155*	133	189	na	na	*76.0*	67.9	47.9	122 J	159 J	na	na	na	195	38.3	22.6
Organometals																	
Monobutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	8.0	4.0 U	7.8 U	na	na	na	na	na
Dibutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	12	5.7 U	11 U	na	na	na	na	na
Tributyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	55	47	27	na	na	na	na	na
PAHs																	
1-Methylnaphthalene	µg/kg dw	60 U	59 U	59 U	na	na	46	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
2-Chloronaphthalene	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
2-Methylnaphthalene	µg/kg dw	60 U	59 U	59 U	na	na	30	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
Acenaphthene	µg/kg dw	60 U	59 U	59 U	na	na	200	25	20 U	59 U	340	66 U	na	na	58 U	20 U	20 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC21					LDW-SC22			LDW-SC23					LDW-SC24		
ANALYTE	UNIT	LDW-SC21-0-1	LDW-SC21-1-2	LDW-SC21-2-4	LDW-SC21-4-6.2	LDW-SC21-10-11.3	LDW-SC22-0-1.1	LDW-SC22-1.1-2	LDW-SC22-2-4	LDW-SC23-0-2	LDW-SC23-2-4	LDW-SC23-4-6	LDW-SC23-6-8	LDW-SC23-8-10.2	LDW-SC24-0-1	LDW-SC24-1-2	LDW-SC24-2-4
Acenaphthylene	µg/kg dw	60 U	59 U	59 U	na	na	12 J	18 J	20 U	59 U	95	66 U	na	na	58 U	20 U	20 U
Anthracene	µg/kg dw	94	53 J	74	na	na	290	34	20 U	66	1,600	53 J	na	na	81	16 J	20 U
Benzo(a)anthracene	µg/kg dw	230	150	230	na	na	130	51	20 U	190	3,200	180	na	na	220	50	20 U
Benzo(a)pyrene	µg/kg dw	280	220	360	na	na	91	90	20 U	230	2,500	200	na	na	350	56	13 J
Benzo(b)fluoranthene	µg/kg dw	590	310	480	na	na	120	91	20 U	350	3,800	300	na	na	520	75	18 J
Benzo(g,h,i)perylene	µg/kg dw	58 J	88	97	na	na	40	39	20 U	44 J	490	100	na	na	78	12 J	20 U
Benzo(k)fluoranthene	µg/kg dw	350	230	400	na	na	91	65	20 U	320	2,200	180	na	na	490	82	18 J
Total benzofluoranthenes	µg/kg dw	940	540	880	na	na	210	156	20 U	670	6,000	480	na	na	1,010	157	36 J
Chrysene	µg/kg dw	460	220	320	na	na	160	67	20 U	290	7,200	220	na	na	360	59	20 U
Dibenzo(a,h)anthracene	µg/kg dw	60 U	59 U	29 J	na	na	20 U	20 U	20 U	59 U	180	43	na	na	58 U	20 U	20 U
Dibenzofuran	µg/kg dw	60 U	59 U	59 U	na	na	120	20 U	20 U	59 U	110	66 U	na	na	58 U	20 U	20 U
Fluoranthene	µg/kg dw	540	300	610	na	na	580	150	12 J	450 J	7,400 J	420	na	na	470	140	20 U
Fluorene	µg/kg dw	60 U	59 U	59 U	na	na	180	20	20 U	59 U	260	66 U	na	na	58 U	20 U	20 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	57 J	82	100	na	na	42	44	20 U	52 J	680 J	83	na	na	99	13 J	20 U
Naphthalene	µg/kg dw	60 U	59 U	59 U	na	na	48	30	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
Phenanthrene	µg/kg dw	180	120	210	na	na	570	100	20 U	100	1,200	150	na	na	150	30	20 U
Pyrene	µg/kg dw	560	400	930	na	na	550	160	15 J	640	3,800	740	na	na	670	230	19 J
Total HPAH	µg/kg dw	3,130 J	2,000	3,560 J	na	na	1,800	760	27 J	2,570 J	31,500 J	2,470	na	na	3,260	720 J	68 J
Total LPAH	µg/kg dw	270	170 J	280	na	na	1,300 J	230 J	20 U	170	3,500	200 J	na	na	230	46 J	20 U
Carcinogenic PAHs	µg/kg dw	420 J	310	500 J	na	na	130	120	18 U	340 J	3,600 J	290	na	na	500	83 J	23 J
Total PAH	µg/kg dw	3,400 J	2,170 J	3,840 J	na	na	3,100 J	980 J	27 J	2,730 J	34,900 J	2,670 J	na	na	3,490	760 J	68 J
Phthalates																	
Bis(2-ethylhexyl)phthalate	µg/kg dw	360	340	600	na	na	56	20 U	20 U	180	1,600	390	na	na	390	15 J	16 J
Butyl benzyl phthalate	µg/kg dw	44	41	46	na	na	5.9 UJ	5.9 UJ	5.9 UJ	28	24	24	na	na	23	5.9 U	5.9 U
Diethyl phthalate	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
Dimethyl phthalate	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	6.6 U	na	na	58 U	20 U	20 U
Di-n-butyl phthalate	µg/kg dw	30 J	59 U	59 U	na	na	29 U	37 U	20 U	59 U	59 U	66 U	na	na	58 U	13 J	14 J
Di-n-octyl phthalate	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC21					LDW-SC22			LDW-SC23					LDW-SC24		
ANALYTE	UNIT	LDW-SC21-0-1	LDW-SC21-1-2	LDW-SC21-2-4	LDW-SC21-4-6.2	LDW-SC21-10-11.3	LDW-SC22-0-1.1	LDW-SC22-1.1-2	LDW-SC22-2-4	LDW-SC23-0-2	LDW-SC23-2-4	LDW-SC23-4-6	LDW-SC23-6-8	LDW-SC23-8-10.2	LDW-SC24-0-1	LDW-SC24-1-2	LDW-SC24-2-4
Other SVOCs																	
1,2,4-Trichlorobenzene	µg/kg dw	6.0 U	5.9 U	5.9 U	na	na	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	6.6 U	na	na	5.9 U	5.9 UJ	5.9 UJ
1,2-Dichlorobenzene	µg/kg dw	6.0 U	5.9 U	5.9 U	na	na	5.9 U	5.9 U	5.9 U	5.9 U	5.9 U	6.6 U	na	na	5.9 U	5.9 U	5.9 U
1,3-Dichlorobenzene	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	6.6 U	na	na	58 U	20 U	20 U
1,4-Dichlorobenzene	µg/kg dw	6.0 U	5.9 U	5.9 U	na	na	3.0 J	5.9 U	5.9 U	5.9 U	5.9 U	4.0 J	na	na	5.9 U	5.9 U	5.9 U
2,4,5-Trichlorophenol	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 U	330 U	na	na	290 U	98 U	98 U
2,4,6-Trichlorophenol	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 U	330 U	na	na	290 U	98 U	98 U
2,4-Dichlorophenol	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 U	330 U	na	na	290 U	98 U	98 U
2,4-Dimethylphenol	µg/kg dw	6.0 U	5.9 U	5.9 U	na	na	18 UJ	18 UJ	18 UJ	5.9 UJ	5.9 UJ	6.6 UJ	na	na	5.9 U	5.9 U	5.9 U
2,4-Dinitrophenol	µg/kg dw	600 U	590 U	590 U	na	na	200 U	200 U	200 U	590 UJ	590 UJ	660 U	na	na	580 UJ	200 UJ	200 UJ
2,4-Dinitrotoluene	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 U	330 U	na	na	290 U	98 U	98 U
2,6-Dinitrotoluene	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 U	330 U	na	na	290 U	98 U	98 U
2-Chlorophenol	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
2-Methylphenol	µg/kg dw	6.0 U	5.9 U	5.9 U	na	na	5.9 UJ	5.9 UJ	5.9 UJ	7.1	10	6.6 U	na	na	5.9 U	5.9 U	5.9 U
2-Nitroaniline	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 U	330 U	na	na	290 U	98 U	98 U
2-Nitrophenol	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 U	330 U	na	na	290 U	98 U	98 U
3,3'-Dichlorobenzidine	µg/kg dw	300 UJ	300 UJ	290 UJ	na	na	98 UJ	98 UJ	99 UJ	290 UJ	300 UJ	330 U	na	na	290 UJ	98 UJ	98 UJ
3-Nitroaniline	µg/kg dw	300 U	300 U	290 U	na	na	98 UJ	98 UJ	99 UJ	290 U	300 U	330 U	na	na	290 U	98 U	98 U
4,6-Dinitro-o-cresol	µg/kg dw	600 U	590 U	590 U	na	na	200 U	200 U	200 U	590 UJ	590 UJ	660 U	na	na	580 UJ	200 UJ	200 UJ
4-Bromophenyl phenyl ether	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
4-Chloro-3-methylphenol	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 U	330 U	na	na	290 U	98 U	98 U
4-Chloroaniline	µg/kg dw	300 UJ	300 UJ	290 UJ	na	na	98 UJ	98 UJ	99 UJ	290 UJ	300 UJ	330 U	na	na	290 UJ	98 UJ	98 UJ
4-Chlorophenyl phenyl ether	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
4-Methylphenol	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
4-Nitroaniline	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 U	330 U	na	na	290 U	98 U	98 U
4-Nitrophenol	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 UJ	330 U	na	na	290 UJ	98 UJ	98 UJ
Aniline	µg/kg dw	60 UJ	59 UJ	59 UJ	na	na	20 UJ	20 UJ	20 UJ	59 UJ	59 UJ	66 U	na	na	58 UJ	20 UJ	20 UJ

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC21					LDW-SC22			LDW-SC23					LDW-SC24		
ANALYTE	UNIT	LDW-SC21-0-1	LDW-SC21-1-2	LDW-SC21-2-4	LDW-SC21-4-6.2	LDW-SC21-10-11.3	LDW-SC22-0-1.1	LDW-SC22-1.1-2	LDW-SC22-2-4	LDW-SC23-0-2	LDW-SC23-2-4	LDW-SC23-4-6	LDW-SC23-6-8	LDW-SC23-8-10.2	LDW-SC24-0-1	LDW-SC24-1-2	LDW-SC24-2-4
Benzoic acid	µg/kg dw	95	120	100	na	na	59 UJ	59 UJ	59 UJ	250	240	590 U	na	na	88 J	48 J	59 U
Benzyl alcohol	µg/kg dw	30 U	30 U	29 U	na	na	30 UJ	30 UJ	30 UJ	29 U	30 U	33 U	na	na	29 U	30 U	29 U
bis(2-chloroethoxy) methane	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
bis(2-chloroethyl)ether	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
bis(2-chloroisopropyl) ether	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
Hexachlorobenzene	µg/kg dw	6.0 U	5.9 U	5.9 U	na	na	5.9 U	5.9 U	5.9 U	0.98 U	0.99 U	6.6 U	na	na	5.9 U	5.9 U	5.9 U
Hexachlorobutadiene	µg/kg dw	6.0 U	5.9 U	5.9 U	na	na	5.9 U	5.9 U	5.9 U	0.98 U	0.99 U	6.6 U	na	na	5.9 U	5.9 U	5.9 U
Hexachlorocyclopenta-diene	µg/kg dw	300 U	300 U	290 U	na	na	98 U	98 U	99 U	290 U	300 UJ	330 U	na	na	290 UJ	98 UJ	98 UJ
Hexachloroethane	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
Isophorone	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
Nitrobenzene	µg/kg dw	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U	20 U	20 U
N-Nitrosodimethylamine	µg/kg dw	30 U	30 U	29 U	na	na	30 UJ	30 UJ	30 UJ	29 U	30 U	33 U	na	na	29 U	30 U	29 U
N-Nitroso-di-n-propylamine	µg/kg dw	30 U	30 U	29 U	na	na	30 UJ	30 UJ	30 UJ	29 U	30 U	33 U	na	na	29 U	30 U	29 U
N-Nitrosodiphenylamine	µg/kg dw	20 U	24 U	28 U	na	na	40 U	17 U	5.9 U	22 U	45 U	97 U	na	na	33 U	6.5 U	5.9 U
Pentachlorophenol	µg/kg dw	30 U	30 U	29 U	na	na	30 U	30 U	30 U	29 U	30 U	40	na	na	24 J	30 U	29 U
Phenol	µg/kg dw	60 U	59 U	59 U	na	na	24	15 J	14 J	59 U	59 U	66 U	na	na	58 U	20 U	20 U
Polychlorinated biphenyls																	
Aroclor-1016	µg/kg dw	20 U	7.9 U	19 U	120 U	3.9 U	3.9 U	3.9 UJ	3.9 U	20 U	20 U	79 U	36 U	6.5 U	20 U	4.0 U	3.9 U
Aroclor-1221	µg/kg dw	20 U	7.9 U	19 U	120 U	3.9 U	3.9 U	3.9 UJ	3.9 U	20 U	20 U	20 U	36 U	6.5 U	20 U	4.0 U	3.9 U
Aroclor-1232	µg/kg dw	20 U	7.9 U	19 U	120 U	3.9 U	3.9 U	3.9 UJ	3.9 U	20 U	20 U	120 U	36 U	6.5 U	20 U	4.0 U	3.9 U
Aroclor-1242	µg/kg dw	20 U	7.9 U	19 U	320	3.9 U	3.9 U	3.9 UJ	3.9 U	20 U	20 U	85	36 U	6.5 U	20 U	4.0 U	3.9 U
Aroclor-1248	µg/kg dw	50	28	90	120 U	3.9 U	5.1	3.9 UJ	3.9 U	36	60	160 U	90 U	6.5 U	47	6.1	3.9 U
Aroclor-1254	µg/kg dw	100	63	170	820	3.9 U	23	8.5 J	3.9 U	77	92	380	190	20 U	120	19	3.9 U
Aroclor-1260	µg/kg dw	99	54	120 J	540	3.9 U	28	17 J	7.8 J	64	67	410	210	41	110	11	3.9 U
Total PCBs	µg/kg dw	250	145	380 J	1,680	3.9 U	56	26 J	7.8 J	177	219	880	400	41	280	36	3.9 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC21					LDW-SC22			LDW-SC23					LDW-SC24		
ANALYTE	UNIT	LDW-SC21-0-1	LDW-SC21-1-2	LDW-SC21-2-4	LDW-SC21-4-6.2	LDW-SC21-10-11.3	LDW-SC22-0-1.1	LDW-SC22-1.1-2	LDW-SC22-2-4	LDW-SC23-0-2	LDW-SC23-2-4	LDW-SC23-4-6	LDW-SC23-6-8	LDW-SC23-8-10.2	LDW-SC24-0-1	LDW-SC24-1-2	LDW-SC24-2-4
Pesticides																	
2,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
2,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	3.8 U	na	na	na	na	na	na
2,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
4,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
4,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
4,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	18 U	7.4 U	na	na	na	na	na	na
Total DDTs	µg/kg dw	na	na	na	na	na	na	na	na	18 U	7.4 U	na	na	na	na	na	na
Aldrin	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	2.6 U	na	na	na	na	na	na
Dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.7 U	na	na	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.7 U	na	na	na	na	na	na
alpha-BHC	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	0.99 U	na	na	na	na	na	na
beta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	0.99 U	na	na	na	na	na	na
gamma-BHC	µg/kg dw	na	na	na	na	na	na	na	na	2.6 U	0.99 U	na	na	na	na	na	na
delta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	1,100	8.3	na	na	na	na	na	na
alpha-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	0.99 U	na	na	na	na	na	na
gamma-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	4.7 U	2.1 U	na	na	na	na	na	na
alpha-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	0.99 U	na	na	na	na	na	na
beta-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
Endosulfan sulfate	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
Endrin	µg/kg dw	na	na	na	na	na	na	na	na	8.9 U	9.3 U	na	na	na	na	na	na
Endrin aldehyde	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
Endrin ketone	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
Heptachlor	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	0.99 U	na	na	na	na	na	na
Heptachlor epoxide	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	2.9 U	na	na	na	na	na	na
Methoxychlor	µg/kg dw	na	na	na	na	na	na	na	na	9.8 U	9.9 U	na	na	na	na	na	na
Mirex	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
cis-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC21					LDW-SC22			LDW-SC23					LDW-SC24		
ANALYTE	UNIT	LDW-SC21-0-1	LDW-SC21-1-2	LDW-SC21-2-4	LDW-SC21-4-6.2	LDW-SC21-10-11.3	LDW-SC22-0-1.1	LDW-SC22-1.1-2	LDW-SC22-2-4	LDW-SC23-0-2	LDW-SC23-2-4	LDW-SC23-4-6	LDW-SC23-6-8	LDW-SC23-8-10.2	LDW-SC24-0-1	LDW-SC24-1-2	LDW-SC24-2-4
Oxychlordane	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
Toxaphene	µg/kg dw	na	na	na	na	na	na	na	na	98 U	99 U	na	na	na	na	na	na
trans-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	2.0 U	na	na	na	na	na	na
Total chlordane	µg/kg dw	na	na	na	na	na	na	na	na	4.7 U	2.1 U	na	na	na	na	na	na
Grain size																	
Fractional % phi >-1 (>2000 µm)	% dw	0.8	0.2	*0.3*	na	na	4.0	3.3	1.0	7.2	5.6	na	na	na	1.1	0.2	na
Fractional % phi -1-0 (1000-2000 µm)	% dw	1.8	0.1 U	*0.2*	na	na	6.0	5.1	1.4	3.4	1.9	na	na	na	0.4	0.1 U	na
Fractional % phi 0-1 (500-1000 µm)	% dw	2.0	0.5	*1.4*	na	na	31.2	29.9	14.5	5.0	2.3	na	na	na	1.2	0.2	0.2
Fractional % phi 1-2 (250-500 µm)	% dw	2.8	1.2	*4.1*	na	na	33.7	41.1	50	8.6	4.2	na	na	na	1.7	2.6	5.4
Fractional % phi 2-3 (125-250 µm)	% dw	3.0	1.3	*6.5*	na	na	8.9	9.6	20.4	4.5	4.4	na	na	na	2.8	17.6	28.6
Fractional % phi 3-4 (62.5-125 µm)	% dw	6.7	2.8	*7.4*	na	na	3.0	2.2	4.4	4.8	4.9	na	na	na	4.7	40	36.8
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	11.1	5.6	*9.2*	na	na	3.8	1.8	2.2	6.4	7.5	na	na	na	6.7	18.6	14.3
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	18.7	17.9	*15.1*	na	na	1.5	1.8	1.9	14.6	14.1	na	na	na	15.4	7.6	5.4
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	17.8	22.2	*18.7*	na	na	3.0	2.2	1.9	14.6	22.0	na	na	na	20.3	4.4	3.0
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	12.3	16.4	*11.9*	na	na	1.7	1.2	0.9	10	10.7	na	na	na	14.8	2.1	1.6
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	7.5	10.4	*7.9*	na	na	1.1	0.5	0.4	6.5	6.3	na	na	na	9.1	1.7	1.1
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	5.0	7.6	*5.5*	na	na	0.6	0.3	0.1	4.5	5.4	na	na	na	5.9	0.9	0.6
Fractional % phi 10+ (<0.98 µm)	% dw	10.4	13.9	*11.9*	na	na	1.2	1.1	0.9	9.9	10.6	na	na	na	16.1	4.0	3.0
Rocks (total calc'd)	% dw	0.8	0.2	*0.3*	na	na	4.0	3.3	1.0	7.2	5.6	na	na	na	1.1	0.2	na
Sand (total calc'd)	% dw	16.3	5.8	*19.6*	na	na	82.8	87.9	91	26.3	17.7	na	na	na	10.8	60	71.0
Silt (total calc'd)	% dw	59.9	62.1	*54.9*	na	na	10.0	7.0	6.9	46	54.3	na	na	na	57.2	32.7	24.3

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC21					LDW-SC22			LDW-SC23					LDW-SC24		
ANALYTE	UNIT	LDW-SC21-0-1	LDW-SC21-1-2	LDW-SC21-2-4	LDW-SC21-4-6.2	LDW-SC21-10-11.3	LDW-SC22-0-1.1	LDW-SC22-1.1-2	LDW-SC22-2-4	LDW-SC23-0-2	LDW-SC23-2-4	LDW-SC23-4-6	LDW-SC23-6-8	LDW-SC23-8-10.2	LDW-SC24-0-1	LDW-SC24-1-2	LDW-SC24-2-4
Clay (total calc'd)	% dw	22.9	31.9	*25.3*	na	na	2.9	1.9	1.4	20.9	22.3	na	na	na	31.1	6.6	4.7
Fines (percent silt+clay)	% dw	82.8	94.0	*80.2*	na	na	12.9	8.9	8.3	67	76.6	na	na	na	88.3	39.3	29.0
Conventional parameters																	
Total organic carbon (TOC)	% dw	1.98	1.49	1.64	1.94	1.33	2.30	2.18	1.44	2.12	2.14	1.46	2.25	1.63	1.99	0.304	0.435
Total solids	% ww	47.20	52.30	58.00	55.80	71.70	70.70	77.50	75.50	62.70	49.50	52.10	55.60	61.50	53.50	72.70	72.80
Geotechnical																	
Bulk density (dry)	pcf	na	47.1	49.8	na	na	81.0	91.2	na	51.6	47.3	na	na	na	59.7	na	85.3
Bulk density (wet)	pcf	na	91.4	94.8	na	na	109.5	121.7	na	94.1	92.3	na	na	na	100.7	na	113.9
Moisture	% dw	na	94.23	90.53	na	na	35.25	33.47	na	82.43	95.02	na	na	na	68.59	na	33.53
Specific gravity	g/cc	na	2.66	2.64	na	na	2.56	2.68	na	2.65	2.62	na	na	na	2.64	na	2.70
Atterberg limits classification	none	na	OH	OH	na	na	Non-Plastic	Non-Plastic	na	OH	OH	na	na	na	CH	na	Non-Plastic
Liquid limit	% dw	na	86.7	72.3	na	na	na	na	na	71.1	69.5	na	na	na	43.2	na	na
Plastic limit	% dw	na	41.3	38.4	na	na	na	na	na	39.4	34.5	na	na	na	27.5	na	na
Plasticity index	% dw	na	45.4	33.9	na	na	na	na	na	31.7	35.0	na	na	na	15.7	na	na
Porosity	S.U.	na	0.72	0.70	na	na	0.49	0.46	na	0.69	0.71	na	na	na	0.64	na	0.49

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1g. 1- and 2-ft intervals, samples SC25 through SC28

1- AND 2-FT INTERVALS		LDW-SC25					LDW-SC26					LDW-SC27		LDW-SC28				
ANALYTE	UNIT	LDW-SC25-0-1	LDW-SC25-1-2	LDW-SC25-2-4	LDW-SC25-4-6	LDW-SC25-8-9.1	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC26-11.1-12.1	LDW-SC27-0-2	LDW-SC27-2-4.5	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4	LDW-SC28-5.5-7.5	LDW-SC28-12-12.6
Metals and trace elements																		
Antimony	mg/kg dw	10 UJ	16 J	30 J	30 J	6 UJ	10 UJ	9 UJ	10 J	*280 J*	6 UJ	9 UJ	8 UJ	*25 J*	9 UJ	10 J	130 J	7 UJ
Arsenic	mg/kg dw	50	91	170	250	8	40	36	67	*1,890*	6 U	19	17	*114*	18	30	760	17
Cadmium	mg/kg dw	0.4	0.5	0.8 U	1.5	0.2 U	0.5	0.5	0.6	*4*	0.3 U	1.5	0.9	*0.6*	0.6	0.4 U	1.4	0.6
Chromium	mg/kg dw	42	44.7	45	55	8.3	37	61.7	38.7	*160*	14.0	56.9	35.3	*37.0*	32.4	33	65	28.0
Cobalt	mg/kg dw	11.6	14.5	20	22	3.3	11.2	11.9	15.8	*106*	4.8	9.6	8.1	*13.7*	9.4	11.4	50	7.6
Copper	mg/kg dw	327	339	541	663	7.5	146	173	544	*1,950*	23.0	85.2 J	46.7 J	*212*	173	197	1,480	68.5
Lead	mg/kg dw	76	98	173	310	2 U	58 J	57 J	91 J	*1,350*	9	108	43	*114*	40	65	583	37
Mercury	mg/kg dw	0.27	0.30	0.40	na	na	0.28 J	0.28 J	0.69 J	*4.34*	na	0.52	0.41	*0.37*	0.20	0.24	0.72	0.30
Molybdenum	mg/kg dw	4	6.5	10	16	0.7	3	3.1	5.9	*166*	1.2	2.5	1.9	*9.9 J*	1.0 J	2 J	61	9.9
Nickel	mg/kg dw	24	26	27	28	5	27	32	26	*60*	12	27 J	19 J	*23*	23	25	37	17
Selenium	mg/kg dw	10 U	9 U	20 U	20 U	6 U	10 U	9 U	9 U	*40 U*	6 U	9 U	8 U	*9 U*	9 U	10 U	20 U	7 U
Silver	mg/kg dw	0.6 U	0.5 U	1 U	1 U	0.4 U	0.6 U	0.5 U	0.8	*3*	0.4 U	1.9	0.9	*0.5 U*	0.5 U	0.6 U	2	0.5
Thallium	mg/kg dw	10 U	9 U	20 U	20 U	6 U	10 U	9 U	9 U	*40 U*	6 U	9 U	8 U	*9 U*	9 U	10 U	20 U	7 U
Vanadium	mg/kg dw	73.1	75.1	79	89	37.5	78.9	78.5	80.1	*67*	47.7	73.4	67.5	*67.5*	68.9	71.1	92	59.2
Zinc	mg/kg dw	263	503	750	1,420	17.6	198	191	319	*3,700*	43.1	190	103	*405*	203	244	1,880	97.5
Organometals																		
Monobutyltin as ion	µg/kg dw	12	13	18	7.8 U	3.8 U	3.9 U	4.5	6.0	9.1	na	na	na	4.0 U	3.9 U	3.9 U	46	3.9 U
Dibutyltin as ion	µg/kg dw	72	64	150	92	5.4 U	16	24	87	520	na	na	na	25 J	15	25	960	5.6 U
Tributyltin as ion	µg/kg dw	220	350	720	1,000	3.6 U	130	130	590	6,200	na	na	na	160	55	120	3,400	4.8
PAHs																		
1-Methylnaphthalene	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	84	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
2-Chloronaphthalene	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
2-Methylnaphthalene	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	110	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
Acenaphthene	µg/kg dw	38 J	35 J	120	na	na	99 U	60 U	100 U	900	na	59 U	20 U	60 U	60 U	60 U	220	32 J

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC25					LDW-SC26					LDW-SC27		LDW-SC28				
ANALYTE	UNIT	LDW-SC25-0-1	LDW-SC25-1-2	LDW-SC25-2-4	LDW-SC25-4-6	LDW-SC25-8-9.1	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC26-11.1-12.1	LDW-SC27-0-2	LDW-SC27-2-4.5	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4	LDW-SC28-5.5-7.5	LDW-SC28-12-12.6
Acenaphthylene	µg/kg dw	68 U	31 J	60 U	na	na	99 U	60 U	100 U	63 J	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
Anthracene	µg/kg dw	170	150	220	na	na	79 J	51 J	74 J	1,300	na	68	34	100	48 J	47 J	450	32 J
Benzo(a)anthracene	µg/kg dw	500	630	660	na	na	260	170	310	3,700	na	150	54	320	160	140	1,300	110
Benzo(a)pyrene	µg/kg dw	500	590	700	na	na	340	260	400	2,800	na	230	83	270	150	170	950	120
Benzo(b)fluoranthene	µg/kg dw	720	850	840	na	na	470	340	480	3,500	na	350	110	470	250	250	1,000	98
Benzo(g,h,i)perylene	µg/kg dw	130	140	160	na	na	81 J	82	120	1,000	na	63	24	120	83	74	440	61 J
Benzo(k)fluoranthene	µg/kg dw	530	720	780	na	na	430	320	460	1,700	na	260	82	340	150	210	830	140
Total benzofluoranthenes	µg/kg dw	1,250	1,570	1,620	na	na	900	660	940	5,200	na	610	190	810	400	460	1,800	240
Chrysene	µg/kg dw	920	990	910	na	na	390	280	420	3,900	na	280	120	690	250	270	1,400	110
Dibenzo(a,h)anthracene	µg/kg dw	68 U	48 J	53 J	na	na	99 U	60 U	100 U	400 J	na	59 U	20 U	34 J	42 J	38 J	200	43
Dibenzofuran	µg/kg dw	68 U	60 U	56 J	na	na	99 U	60 U	100 U	360	na	59 U	20 U	60 U	60 U	60 U	80	61 U
Fluoranthene	µg/kg dw	910	1,400	2,100	na	na	500	370	750	10,000	na	280	84	950	130	120	4,100	310
Fluorene	µg/kg dw	52 J	37 J	76	na	na	99 U	60 U	100 U	420	na	59 U	20 U	40 J	60 U	60 U	160	61 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	180	200	210	na	na	110	110	160	1,000	na	71	24	130	89	85	400	69
Naphthalene	µg/kg dw	68 U	60 U	41 J	na	na	99 U	60 U	100 U	220	na	59 U	12 J	60 U	60 U	60 U	45 J	80
Phenanthrene	µg/kg dw	410	340	530	na	na	190	110	240	5,600	na	160	60	300	120	120	1,700	92
Pyrene	µg/kg dw	920	1,800	1,600	na	na	460	400	880	9,700	na	760	210	960	360 J	410 J	3,600	300
Total HPAH	µg/kg dw	5,310	7,400 J	8,000 J	na	na	3,040 J	2,330	3,980	38,000 J	na	2,440	790	4,280 J	1,660 J	1,770 J	14,200	1,360 J
Total LPAH	µg/kg dw	670 J	590 J	990 J	na	na	270 J	160 J	310 J	8,500 J	na	230	106 J	440 J	170 J	170 J	2,600 J	236 J
Carcinogenic PAHs	µg/kg dw	720	860 J	980 J	na	na	490	370	570	4,000 J	na	330	120	420 J	230 J	260 J	1,400	180
Total PAH	µg/kg dw	5,980 J	8,000 J	9,000 J	na	na	3,310 J	2,490 J	4,290 J	46,000 J	na	2,670	900 J	4,720 J	1,830 J	1,930 J	16,800 J	1,600 J
Phthalates																		
Bis(2-ethylhexyl)phthalate	µg/kg dw	350	320	740	na	na	330	320	590	3,800	na	910	55	510 U	310 U	280 U	1,000	96
Butyl benzyl phthalate	µg/kg dw	27	32	62	na	na	48	36	41	30 J	na	17 J	5.9 UJ	34	27	26	28	6.1 U
Diethyl phthalate	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
Dimethyl phthalate	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	20	na	59 U	20 U	60 U	60 U	60 U	16	61 U
Di-n-butyl phthalate	µg/kg dw	68 U	83 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	26 U	60 U	60 U	60 U	66 U	31 J

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC25					LDW-SC26					LDW-SC27		LDW-SC28				
ANALYTE	UNIT	LDW-SC25-0-1	LDW-SC25-1-2	LDW-SC25-2-4	LDW-SC25-4-6	LDW-SC25-8-9.1	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC26-11.1-12.1	LDW-SC27-0-2	LDW-SC27-2-4.5	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4	LDW-SC28-5.5-7.5	LDW-SC28-12-12.6
Di-n-octyl phthalate	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	57 J	na	59 U	20 U	60 U	60 U	60 U	56 J	61 U
Other SVOCs																		
1,2,4-Trichlorobenzene	µg/kg dw	6.8 UJ	6.0 UJ	6.0 UJ	na	na	5.9 U	6.0 U	6.0 U	9.8	na	5.9	5.9 U	6.0 U	6.0 UJ	6.0 UJ	11	6.1 UJ
1,2-Dichlorobenzene	µg/kg dw	6.8 U	6.0 U	7.8	na	na	5.9 U	6.0 U	9.0	73	na	4.2 J	5.9 U	6.0 U	6.0 U	6.0 U	160	6.1 U
1,3-Dichlorobenzene	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	6.5 U	na	59 U	20 U	60 U	60 U	60 U	7.2	61 U
1,4-Dichlorobenzene	µg/kg dw	6.8 U	6.0 U	4.2 J	na	na	3.6 J	6.0 U	4.8 J	11	na	4.2 J	5.9 U	3.6 J	6.0 U	6.0 U	24	6.1 U
2,4,5-Trichlorophenol	µg/kg dw	340 U	300 U	300 U	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 U	300 U	300 U	330 U	310 U
2,4,6-Trichlorophenol	µg/kg dw	340 U	300 U	300 U	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 U	300 U	300 U	330 U	310 U
2,4-Dichlorophenol	µg/kg dw	340 U	300 U	300 U	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 U	300 U	300 U	330 U	310 U
2,4-Dimethylphenol	µg/kg dw	6.8 UJ	6.0 UJ	7.8	na	na	5.9 UJ	6.0 UJ	6.0 UJ	24 J	na	18 UJ	17 UJ	6.0 UJ	6.0 UJ	6.0 UJ	8.5 J	4.3 J
2,4-Dinitrophenol	µg/kg dw	680 UJ	600 UJ	600 UJ	na	na	990 UJ	600 UJ	1,000 UJ	650 U	na	590 U	200 U	600 UJ	600 UJ	600 UJ	660 U	610 UJ
2,4-Dinitrotoluene	µg/kg dw	340 U	300 U	300 U	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 U	300 U	300 U	330 U	310 U
2,6-Dinitrotoluene	µg/kg dw	340 U	300 U	300 U	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 U	300 U	300 U	330 U	310 U
2-Chlorophenol	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
2-Methylphenol	µg/kg dw	4.1 J	6.0 U	8.4 J	na	na	5.9 UJ	6.0 UJ	6.0 UJ	12	na	3.6 J	5.9 UJ	6.0 U	6.0 UJ	4.2 J	6.6	6.1 U
2-Nitroaniline	µg/kg dw	340 U	300 U	300 U	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 U	300 U	300 U	330 U	310 U
2-Nitrophenol	µg/kg dw	340 U	300 U	300 U	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 U	300 U	300 U	330 U	310 U
3,3'-Dichlorobenzidine	µg/kg dw	340 UJ	300 UJ	300 UJ	na	na	500 UJ	300 UJ	500 UJ	330 U	na	300 UJ	98 UJ	300 UJ	300 UJ	300 UJ	330 U	310 U
3-Nitroaniline	µg/kg dw	340 UJ	300 UJ	300 UJ	na	na	500 UJ	300 UJ	500 UJ	330 U	na	300 UJ	98 UJ	300 U	300 U	300 U	330 U	310 U
4,6-Dinitro-o-cresol	µg/kg dw	680 UJ	600 UJ	600 UJ	na	na	990 U	600 U	1,000 U	650 U	na	590 U	200 U	600 U	600 UJ	600 UJ	660 U	610 UJ
4-Bromophenyl phenyl ether	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
4-Chloro-3-methylphenol	µg/kg dw	340 U	300 U	300 U	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 U	300 U	300 U	330 U	310 U
4-Chloroaniline	µg/kg dw	340 UJ	300 UJ	300 UJ	na	na	500 UJ	300 UJ	500 UJ	330 U	na	300 UJ	98 UJ	300 UJ	300 UJ	300 UJ	330 U	310 U
4-Chlorophenyl phenyl ether	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
4-Methylphenol	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	48 J	na	59 U	20 U	60 U	60 U	60 U	37 J	61 U
4-Nitroaniline	µg/kg dw	340 U	300 U	300 U	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 U	300 U	300 U	330 U	310 U
4-Nitrophenol	µg/kg dw	340 U	300 U	300 U	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 U	300 U	300 U	330 U	310 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC25					LDW-SC26					LDW-SC27		LDW-SC28				
ANALYTE	UNIT	LDW-SC25-0-1	LDW-SC25-1-2	LDW-SC25-2-4	LDW-SC25-4-6	LDW-SC25-8-9.1	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC26-11.1-12.1	LDW-SC27-0-2	LDW-SC27-2-4.5	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4	LDW-SC28-5.5-7.5	LDW-SC28-12-12.6
Aniline	µg/kg dw	68 UJ	60 UJ	60 UJ	na	na	99 UJ	60 UJ	100 UJ	65 U	na	59 UJ	20 UJ	60 UJ	60 UJ	60 UJ	66 U	61 U
Benzoic acid	µg/kg dw	75 UJ	60 UJ	77 U	na	na	160	100	80	590 U	na	79 UJ	59 UJ	200 J	98 J	85 J	320 J	610 U
Benzyl alcohol	µg/kg dw	26 J	19 J	20 J	na	na	30 U	30 U	30 U	33 U	na	20 J	29 UJ	110	30 U	30 U	33 U	31 U
bis(2-chloroethoxy) methane	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
bis(2-chloroethyl)ether	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
bis(2-chloroisopropyl) ether	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
Hexachlorobenzene	µg/kg dw	6.8 U	6.0 U	6.0 U	na	na	5.9 U	6.0 U	6.0 U	6.5 U	na	5.9 U	5.9 U	6.0 U	6.0 U	6.0 U	6.6 U	6.1 U
Hexachlorobutadiene	µg/kg dw	6.8 U	6.0 U	6.0 U	na	na	5.9 U	6.0 U	6.0 U	6.5 U	na	5.9 U	5.9 U	6.0 U	6.0 U	6.0 U	6.6 U	6.1 U
Hexachlorocyclopenta-diene	µg/kg dw	340 UJ	300 UJ	300 UJ	na	na	500 U	300 U	500 U	330 U	na	300 U	98 U	300 UJ	300 UJ	300 UJ	330 U	310 UJ
Hexachloroethane	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
Isophorone	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
Nitrobenzene	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	20 U	60 U	60 U	60 U	66 U	61 U
N-Nitrosodimethylamine	µg/kg dw	34 U	30 U	30 U	na	na	30 U	30 U	30 U	33 U	na	30 UJ	29 UJ	30 U	30 U	30 U	33 U	31 U
N-Nitroso-di-n-propylamine	µg/kg dw	34 UJ	30 UJ	30 U	na	na	30 UJ	30 UJ	30 UJ	33 U	na	30 UJ	29 UJ	30 U	30 UJ	30 UJ	33 U	31 UJ
N-Nitrosodiphenylamine	µg/kg dw	33 U	32 U	58 U	na	na	30 U	24 U	38 U	640 U	na	43 U	19 U	35 U	22 U	23 U	300 U	30 UJ
Pentachlorophenol	µg/kg dw	20 J	21 J	37 J	na	na	20 J	30 U	24 J	800	na	30 U	29 U	32	30 U	30 U	410	31 U
Phenol	µg/kg dw	68 U	60 U	60 U	na	na	99 U	60 U	100 U	65 U	na	59 U	18 J	210	150	110	66 U	61 U
Polychlorinated biphenyls																		
Aroclor-1016	µg/kg dw	20 U	20 U	20 U	3.9 U	3.9 U	7.9 U	7.9 U	8.0 U	170 U	4.0 U	4.0 UJ	20 UJ	39 U	77 U	40 U	310 U	25 U
Aroclor-1221	µg/kg dw	20 U	20 U	20 U	3.9 U	3.9 U	7.9 U	7.9 U	8.0 U	170 U	4.0 U	4.0 UJ	20 UJ	39 U	77 U	40 U	310 U	25 U
Aroclor-1232	µg/kg dw	20 U	20 U	20 U	3.9 U	3.9 U	7.9 U	7.9 U	8.0 U	170 U	4.0 U	4.0 UJ	20 UJ	39 U	77 U	40 U	310 U	25 U
Aroclor-1242	µg/kg dw	20 U	20 U	20 U	78 J	3.9 U	7.9 U	7.9 U	8.0 U	370	31	4.0 UJ	20 UJ	39 U	77 U	40 U	310 U	25 U
Aroclor-1248	µg/kg dw	55	64	82	3.9 U	3.9 U	60	48	60	170 U	4.0 U	1,100	28 J	99	65 J	55	310 U	190
Aroclor-1254	µg/kg dw	140	170	200	470	3.9 U	110	81	140	1,300	67	1,500	110 J	180	110	110	2,600	220
Aroclor-1260	µg/kg dw	110	130	150	250	3.9 U	110	97	110	610	42	660	110 J	160	180	120	610	130
Total PCBs	µg/kg dw	310	360	430	800 J	3.9 U	280	226	310	2,300	140	3,300	250 J	440	360 J	290	3,200	540

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC25					LDW-SC26					LDW-SC27		LDW-SC28				
ANALYTE	UNIT	LDW-SC25-0-1	LDW-SC25-1-2	LDW-SC25-2-4	LDW-SC25-4-6	LDW-SC25-8-9.1	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC26-11.1-12.1	LDW-SC27-0-2	LDW-SC27-2-4.5	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4	LDW-SC28-5.5-7.5	LDW-SC28-12-12.6
Pesticides																		
2,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total DDTs	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
beta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
delta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
beta-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor epoxide	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Mirex	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC25					LDW-SC26					LDW-SC27		LDW-SC28				
ANALYTE	UNIT	LDW-SC25-0-1	LDW-SC25-1-2	LDW-SC25-2-4	LDW-SC25-4-6	LDW-SC25-8-9.1	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC26-11.1-12.1	LDW-SC27-0-2	LDW-SC27-2-4.5	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4	LDW-SC28-5.5-7.5	LDW-SC28-12-12.6
cis-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Oxychlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
trans-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Grain size																		
Fractional % phi >-1 (>2000 µm)	% dw	1.3	1.3	0.3	na	na	0.8	0.6	0.1	na	na	3.5	6.2	0.7	1.3	*1*	na	na
Fractional % phi -1-0 (1000-2000 µm)	% dw	1.3	1.2	1.4	na	na	0.2	0.5	1.3	na	na	0.9	1.1	0.9	0.4	*0.8*	na	na
Fractional % phi 0-1 (500-1000 µm)	% dw	2.3	2.2	2.8	na	na	1.6	1.5	0.8	na	na	1.8	2.6	2.6	1.6	*1*	na	na
Fractional % phi 1-2 (250-500 µm)	% dw	5.0	3.5	4.7	na	na	2.8	2.2	3.1	na	na	6.0	10.7	8.4	3.1	*3.5*	na	na
Fractional % phi 2-3 (125-250 µm)	% dw	4.9	4.3	4.9	na	na	2.4	1.3	3.6	na	na	5.8	8.1	4.0	2.0	*1.7*	na	na
Fractional % phi 3-4 (62.5-125 µm)	% dw	7.0	6.1	5.6	na	na	6.5	3.9	5.7	na	na	6.9	9.2	9.0	9.6	*5.5*	na	na
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	10.9	11.5	6.8	na	na	19.6	7.9	9.1	na	na	11.1	12.4	15.0	17.6	*9.1*	na	na
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	16.3	12.9	14.3	na	na	10.6	18.4	19.2	na	na	13.5	13.5	15.9	18.4	*17.9*	na	na
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	19.4	22.7	23.2	na	na	19.2	23.3	18.9	na	na	19.8	12.4	14.1	16.0	*26.1*	na	na
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	10.2	11.6	11.3	na	na	12.5	14.6	13.4	na	na	10.4	8.6	9.9	10.4	*10*	na	na
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	6.4	6.5	6.2	na	na	6.9	7.4	7.5	na	na	6.2	5.1	6.0	6.3	*7.0*	na	na
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	4.9	5.4	4.9	na	na	5.5	6.0	5.4	na	na	4.7	3.7	4.8	4.8	*5.4*	na	na
Fractional % phi 10+ (<0.98 µm)	% dw	10.2	10.8	13.4	na	na	11.3	12.5	11.9	na	na	9.4	6.5	8.7	8.5	*10.7*	na	na
Rocks (total calc'd)	% dw	1.3	1.3	0.3	na	na	0.8	0.6	0.1	na	na	3.5	6.2	0.7	1.3	*1*	na	na
Sand (total calc'd)	% dw	20.5	17.3	19.4	na	na	13.5	9.4	14.5	na	na	21.4	31.7	24.9	16.7	*13*	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC25					LDW-SC26					LDW-SC27		LDW-SC28				
ANALYTE	UNIT	LDW-SC25-0-1	LDW-SC25-1-2	LDW-SC25-2-4	LDW-SC25-4-6	LDW-SC25-8-9.1	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC26-11.1-12.1	LDW-SC27-0-2	LDW-SC27-2-4.5	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4	LDW-SC28-5.5-7.5	LDW-SC28-12-12.6
Silt (total calc'd)	% dw	56.8	58.7	55.6	na	na	61.9	64.2	60.6	na	na	54.8	46.9	54.9	62.4	*63*	na	na
Clay (total calc'd)	% dw	21.5	22.7	24.5	na	na	23.7	25.9	24.8	na	na	20.3	15.3	19.5	19.6	*23.1*	na	na
Fines (percent silt+clay)	% dw	78.3	81.4	80.1	na	na	85.6	90.1	85.4	na	na	75.1	62.2	74.4	82.0	*86*	na	na
Conventional parameters																		
Total organic carbon (TOC)	% dw	1.94	1.47	1.69	1.63	0.110	1.40	2.04	2.08	*1.88*	0.912	2.24	2.12	*2.59*	2.07	3.14	1.61	1.31
Total solids	% ww	47.50	52.20	54.40	52.60	76.80	47.70	53.10	54.30	*62.25*	77.00	53.10	60.50	*52.25*	52.40	49.10	68.40	64.20
Geotechnical																		
Bulk density (dry)	pcf	na	52.2	51.1	na	na	na	53.8	75.8	na	na	65.7	58.7	na	52.7	46.9	na	na
Bulk density (wet)	pcf	na	96.9	90.9	na	na	na	97.7	113.3	na	na	106.4	97.1	na	99.0	88.1	na	na
Moisture	% dw	na	85.69	77.85	na	na	na	81.66	49.42	na	na	61.87	65.50	na	87.77	87.66	na	na
Specific gravity	g/cc	na	2.37	2.69	na	na	na	2.70	2.80	na	na	2.67	2.52	na	2.64	2.66	na	na
Atterberg limits classification	none	na	MH	MH	na	na	na	OH	non-plastic	na	na	OL	OL	na	OH	OH	na	na
Liquid limit	% dw	na	68.4	68.3	na	na	na	64.9	na	na	na	49.9	47.2	na	67.7	73.1	na	na
Plastic limit	% dw	na	38.0	38.8	na	na	na	35.4	na	na	na	27.4	33.8	na	35.4	38.1	na	na
Plasticity index	% dw	na	30.4	29.5	na	na	na	29.5	na	na	na	22.5	13.4	na	32.3	35.0	na	na
Porosity	S.U.	na	0.65	0.70	na	na	na	0.68	0.57	na	na	0.61	0.63	na	0.68	0.72	na	na

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1h. 1- and 2-ft intervals, samples SC29 through SC32

1- AND 2-FT INTERVALS		LDW-SC29			LDW-SC30		LDW-SC31			LDW-SC32			
ANALYTE	UNIT	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC29-2-3.6	LDW-SC30-0-2.5	LDW-SC30-2-5.4	LDW-SC31-0-1	LDW-SC31-1-2.8	LDW-SC31-2.8-4	LDW-SC32-0-1	LDW-SC32-1-2	LDW-SC32-2-4	LDW-SC32-5.2-8
Metals and trace elements													
Antimony	mg/kg dw	7 UJ	6 UJ	6 UJ	6 UJ	7 UJ	10 UJ	9 UJ	*6 UJ*	*8 UJ*	10 UJ	10 UJ	na
Arsenic	mg/kg dw	14	11	6 U	6 U	7 U	20	17	*6 U*	*20*	40	30	na
Cadmium	mg/kg dw	0.3 U	0.2 U	0.2 U	0.2 U	0.3 U	0.5	0.5	*0.3 U*	*0.6*	1.7	1.0	na
Chromium	mg/kg dw	20.8	14.5	10.6	11.4	10.6	35	31.1	*8.9*	*33.5*	46	37	na
Cobalt	mg/kg dw	7.0	6.6	5.5	4.3	3.9	9.7	9.2	*3.6*	*8.4*	9.6	7.9	na
Copper	mg/kg dw	51.1	20.5	11.3	11.1 J	16.4 J	88.4	72.9	*9.3*	*58.2*	90.2	60	na
Lead	mg/kg dw	18	6	4	3	3 U	49	43	*3 U*	*59*	87	51	na
Mercury	mg/kg dw	0.12	0.05 U	0.06 U	0.06 U	0.06 U	0.33	0.22	*0.04 U*	*0.20*	0.3	0.22	na
Molybdenum	mg/kg dw	1.2	1.7	0.6 U	0.6 U	0.7 U	1 U	1.0	*0.6 U*	*1.1*	1 U	1 U	na
Nickel	mg/kg dw	15	12	9	7 J	6 J	22	21	*6*	*22*	30	23	na
Selenium	mg/kg dw	7 U	6 U	6 U	6 U	7 U	10 U	9 U	*6 U*	*8 U*	10 U	10 U	na
Silver	mg/kg dw	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.6 U	0.6 U	*0.4 U*	*0.5*	1.1	1.0	na
Thallium	mg/kg dw	7 U	6 U	6 U	6 U	7 U	10 U	9 U	*6 U*	*8 U*	10 U	10 U	na
Vanadium	mg/kg dw	56.5	52.7	44.6	45.6	43.0	75.2	68.0	*36.1*	*68.0*	76.7	71.5	na
Zinc	mg/kg dw	77.9	38.4	31.2	27.3	20.5	139	131	*18.5*	*136*	287	160	na
Organometals													
Monobutyltin as ion	µg/kg dw	na	na	na	na	na	4.0 U	4.0 U	3.8 U	na	na	na	na
Dibutyltin as ion	µg/kg dw	na	na	na	na	na	13	5.7 U	5.4 U	na	na	na	na
Tributyltin as ion	µg/kg dw	na	na	na	na	na	46	49	3.6 U	na	na	na	na
PAHs													
1-Methylnaphthalene	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	160	87	66 U
2-Chloronaphthalene	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
2-Methylnaphthalene	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	86	88	66 U
Acenaphthene	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	1,400	300	66 U
Acenaphthylene	µg/kg dw	58 U	11 J	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC29			LDW-SC30		LDW-SC31			LDW-SC32			
ANALYTE	UNIT	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC29-2-3.6	LDW-SC30-0-2.5	LDW-SC30-2-5.4	LDW-SC31-0-1	LDW-SC31-1-2.8	LDW-SC31-2.8-4	LDW-SC32-0-1	LDW-SC32-1-2	LDW-SC32-2-4	LDW-SC32-5.2-8
Anthracene	µg/kg dw	58 U	26	20 U	19 U	19 U	71	48 J	20 U	42 J	360	84	66 U
Benzo(a)anthracene	µg/kg dw	32 J	110	20 U	17 J	19 U	240	150	20 U	120	990	150	66 U
Benzo(a)pyrene	µg/kg dw	32 J	110	20 U	18 J	19 U	220	200	20 U	160	400	110	66 U
Benzo(b)fluoranthene	µg/kg dw	58 J	100	20 U	32	19 U	290	320	20 U	270	850	210	66 U
Benzo(g,h,i)perylene	µg/kg dw	58 U	26	20 U	19 U	19 U	79	50 J	20 U	58 U	43 J	20	66 U
Benzo(k)fluoranthene	µg/kg dw	43 J	130	20 U	23	19 U	280	270	20 U	180	510	170	66 U
Total benzofluoranthenes	µg/kg dw	101 J	230	20 U	55	19 U	570	590	20 U	450	1,360	380	66 U
Chrysene	µg/kg dw	42 J	130	20 U	25	19 U	330	250	20 U	170	890	210	66 U
Dibenzo(a,h)anthracene	µg/kg dw	58 U	11 J	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	6.6 U
Dibenzofuran	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	1,200	170	66 U
Fluoranthene	µg/kg dw	42 J	200	20 U	42	19 U	600	320	20 U	210	2,500	590	66 U
Fluorene	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	1,900	260	66 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	58 U	29	20 U	19 U	19 U	98	56 J	20 U	36 J	60	22	66 U
Naphthalene	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	140	140	66 U
Phenanthrene	µg/kg dw	58 U	82	20 U	15 J	19 U	140	100	20 U	88	3,700	460	66 U
Pyrene	µg/kg dw	92 J	310 J	9.9 J	26	19 U	410	430	20 U	420	1,200	370	66 U
Total HPAH	µg/kg dw	341 J	1,160 J	9.9 J	183 J	19 U	2,550	2,050 J	20 U	1,570 J	7,400 J	1,850	66 U
Total LPAH	µg/kg dw	58 U	119 J	20 U	15 J	19 U	210	150 J	20 U	130 J	7,500	1,240	66 U
Carcinogenic PAHs	µg/kg dw	60 J	150 J	18 U	30 J	17 U	330	290 J	18 U	230 J	660	170	48 U
Total PAH	µg/kg dw	341 J	1,280 J	9.9 J	198 J	19 U	2,760	2,190 J	20 U	1,700 J	14,900 J	3,100	66 U
Phthalates													
Bis(2-ethylhexyl)phthalate	µg/kg dw	40 J	20 U	20 U	30	19 U	270	260	20 U	200	650	460	66 U
Butyl benzyl phthalate	µg/kg dw	5.9	5.9 U	5.8 U	5.8 U	5.8 U	38	21	5.8 U	32	44	45	6.6 U
Diethyl phthalate	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
Dimethyl phthalate	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	6.6 U
Di-n-butyl phthalate	µg/kg dw	62	28	22	47	19 U	33 J	58 U	11 J	58 U	59 U	20 U	66 U
Di-n-octyl phthalate	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
Other SVOCs													

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC29			LDW-SC30		LDW-SC31			LDW-SC32			
ANALYTE	UNIT	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC29-2-3.6	LDW-SC30-0-2.5	LDW-SC30-2-5.4	LDW-SC31-0-1	LDW-SC31-1-2.8	LDW-SC31-2.8-4	LDW-SC32-0-1	LDW-SC32-1-2	LDW-SC32-2-4	LDW-SC32-5.2-8
1,2,4-Trichlorobenzene	µg/kg dw	5.9 U	5.9 U	5.8 U	5.8 U	5.8 U	5.9 U	5.9 U	5.8 U	5.8 U	4.2 J	4.1 J	6.6 U
1,2-Dichlorobenzene	µg/kg dw	5.9 U	5.9 U	5.8 U	5.8 U	5.8 U	5.9 U	5.9 U	5.8 U	5.8 U	5.9 U	5.9 U	6.6 U
1,3-Dichlorobenzene	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	6.6 U
1,4-Dichlorobenzene	µg/kg dw	5.9 U	5.9 U	5.8 U	5.8 U	5.8 U	3.5 J	5.9 U	5.8 U	5.8 U	5.9 U	5.9 U	6.6 U
2,4,5-Trichlorophenol	µg/kg dw	290 U	98 U	97 U	97 U	97 U	290 U	290 U	97 U	290 U	300 U	98 U	330 U
2,4,6-Trichlorophenol	µg/kg dw	290 U	98 U	97 U	97 U	97 U	290 U	290 U	97 U	290 U	300 U	98 U	330 U
2,4-Dichlorophenol	µg/kg dw	290 U	98 U	97 U	97 U	97 U	290 U	290 U	97 U	290 U	300 U	98 U	330 U
2,4-Dimethylphenol	µg/kg dw	5.9 U	5.9 U	5.8 U	5.8 U	5.8 U	5.9 U	5.9 U	5.8 U	5.8 UJ	5.9 UJ	11 J	6.6 UJ
2,4-Dinitrophenol	µg/kg dw	580 UJ	200 UJ	200 UJ	190 U	190 U	590 UJ	580 UJ	200 UJ	580 UJ	590 UJ	200 UJ	660 U
2,4-Dinitrotoluene	µg/kg dw	290 U	98 U	97 U	97 U	97 U	290 U	290 U	97 U	290 U	300 U	98 U	330 U
2,6-Dinitrotoluene	µg/kg dw	290 U	98 U	97 U	97 U	97 U	290 U	290 U	97 U	290 U	300 U	98 U	330 U
2-Chlorophenol	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
2-Methylphenol	µg/kg dw	5.9 U	5.9 U	5.8 U	5.8 U	5.8 U	5.9 U	5.9 U	5.8 U	5.8 U	5.9 U	5.9 U	6.6 U
2-Nitroaniline	µg/kg dw	290 U	98 U	97 U	97 U	97 U	290 U	290 U	97 U	290 U	300 U	98 U	330 U
2-Nitrophenol	µg/kg dw	290 U	98 U	97 U	97 U	97 U	290 U	290 U	97 U	290 U	300 U	98 U	330 U
3,3'-Dichlorobenzidine	µg/kg dw	290 UJ	98 UJ	97 UJ	97 UJ	97 UJ	290 UJ	290 UJ	97 UJ	290 UJ	300 UJ	98 UJ	330 U
3-Nitroaniline	µg/kg dw	290 UJ	98 UJ	97 UJ	97 U	97 U	290 U	290 U	97 U	290 U	300 U	98 U	330 U
4,6-Dinitro-o-cresol	µg/kg dw	580 UJ	200 UJ	200 UJ	190 U	190 U	590 UJ	580 UJ	200 UJ	580 UJ	590 UJ	200 UJ	660 U
4-Bromophenyl phenyl ether	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
4-Chloro-3-methylphenol	µg/kg dw	290 U	98 U	97 U	97 U	97 U	290 U	290 U	97 U	290 U	300 U	98 U	330 U
4-Chloroaniline	µg/kg dw	290 UJ	98 UJ	97 UJ	97 UJ	97 UJ	290 UJ	290 UJ	97 UJ	290 UJ	300 UJ	98 UJ	330 U
4-Chlorophenyl phenyl ethe	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
4-Methylphenol	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
4-Nitroaniline	µg/kg dw	290 UJ	98 UJ	97 UJ	97 U	97 U	290 U	290 U	97 U	290 U	300 U	98 U	330 U
4-Nitrophenol	µg/kg dw	290 U	98 U	97 U	97 U	97 U	290 UJ	290 UJ	97 UJ	290 U	300 U	98 U	330 U
Aniline	µg/kg dw	58 UJ	20 UJ	20 UJ	19 UJ	19 UJ	59 UJ	58 UJ	20 UJ	58 UJ	59 UJ	20 UJ	66 U
Benzoic acid	µg/kg dw	73 J	64 J	68 J	58 U	58 U	170 J	120 J	57 J	160	59 U	59 U	600 U
Benzyl alcohol	µg/kg dw	29 U	29 U	29 U	29 U	29 U	29 U	29 U	29 U	29 U	30 U	30 U	33 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC29			LDW-SC30		LDW-SC31			LDW-SC32			
ANALYTE	UNIT	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC29-2-3.6	LDW-SC30-0-2.5	LDW-SC30-2-5.4	LDW-SC31-0-1	LDW-SC31-1-2.8	LDW-SC31-2.8-4	LDW-SC32-0-1	LDW-SC32-1-2	LDW-SC32-2-4	LDW-SC32-5.2-8
bis(2-chloroethoxy) methane	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
bis(2-chloroethyl)ether	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
bis(2-chloroisopropyl) ether	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
Hexachlorobenzene	µg/kg dw	5.9	5.9 U	5.8 U	5.8 U	5.8 U	4.9 U	4.9 U	0.96 U	5.8 U	5.9 U	5.9 U	6.6 U
Hexachlorobutadiene	µg/kg dw	5.9 U	5.9 U	5.8 U	5.8 U	5.8 U	4.9 U	4.9 U	0.96 U	5.8 U	5.9 U	5.9 U	6.6 U
Hexachlorocyclopenta-diene	µg/kg dw	290 U	98 U	97 U	97 U	97 U	290 UJ	290 UJ	97 UJ	290 U	300 U	98 U	330 U
Hexachloroethane	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
Isophorone	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
Nitrobenzene	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	58 U	59 U	20 U	66 U
N-Nitrosodimethylamine	µg/kg dw	29 U	29 U	29 U	29 U	29 U	29 U	29 U	29 U	29 U	30 U	30 U	33 U
N-Nitroso-di-n-propylamine	µg/kg dw	29 U	29 U	29 U	29 U	29 U	29 U	29 U	29 U	29 U	70	41	33 U
N-Nitrosodiphenylamine	µg/kg dw	15 UJ	15 UJ	5.8 UJ	5.8 U	5.8 U	27 U	22 U	5.8 U	33 U	120 U	100 U	6.6 U
Pentachlorophenol	µg/kg dw	29 U	29 U	29 U	29 U	29 U	29 U	29 U	29 U	29 U	20 J	30 U	25 J
Phenol	µg/kg dw	58 U	20 U	20 U	19 U	19 U	59 U	58 U	20 U	69	59 U	20 U	66 U
Polychlorinated biphenyls													
Aroclor-1016	µg/kg dw	3.9 U	3.9 UJ	3.9 U	3.9 U	3.9 U	20 U	20 U	3.9 U	74 U	160 U	140 U	3.8 U
Aroclor-1221	µg/kg dw	3.9 U	3.9 UJ	3.9 U	3.9 U	3.9 U	20 U	20 U	3.9 U	74 U	160 U	140 U	3.8 U
Aroclor-1232	µg/kg dw	3.9 U	3.9 UJ	3.9 U	3.9 U	3.9 U	20 U	20 U	3.9 U	74 U	160 U	140 U	3.8 U
Aroclor-1242	µg/kg dw	3.9 U	3.9 UJ	3.9 U	3.9 U	3.9 U	20 U	20 U	3.9 U	74 U	160 U	140 U	3.8 U
Aroclor-1248	µg/kg dw	8.6 J	3.9 UJ	3.9 U	3.9 U	3.9 U	69	100	3.9 U	430	540	830	3.8 U
Aroclor-1254	µg/kg dw	12	3.9 UJ	3.9 U	6.8	3.9 U	160	140	2.7 J	380	850	950	3.8 U
Aroclor-1260	µg/kg dw	12 J	3.9 UJ	3.9 U	6.1	3.9 U	140	88	3.9 U	200	330	670	3.8 U
Total PCBs	µg/kg dw	33 J	3.9 UJ	3.9 U	12.9	3.9 U	370	330	2.7 J	1,010	1,720	2,450	3.8 U
Pesticides													
2,4'-DDD	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
2,4'-DDE	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
2,4'-DDT	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC29			LDW-SC30		LDW-SC31			LDW-SC32			
ANALYTE	UNIT	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC29-2-3.6	LDW-SC30-0-2.5	LDW-SC30-2-5.4	LDW-SC31-0-1	LDW-SC31-1-2.8	LDW-SC31-2.8-4	LDW-SC32-0-1	LDW-SC32-1-2	LDW-SC32-2-4	LDW-SC32-5.2-8
4,4'-DDD	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
4,4'-DDE	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
4,4'-DDT	µg/kg dw	na	na	na	na	na	32 U	22 U	1.9 U	na	na	na	na
Total DDTs	µg/kg dw	na	na	na	na	na	32 U	22 U	1.9 U	na	na	na	na
Aldrin	µg/kg dw	na	na	na	na	na	4.9 U	4.9 U	0.96 U	na	na	na	na
Dieldrin	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
alpha-BHC	µg/kg dw	na	na	na	na	na	4.9 U	4.9 U	0.96 U	na	na	na	na
beta-BHC	µg/kg dw	na	na	na	na	na	4.9 U	4.9 U	0.96 U	na	na	na	na
gamma-BHC	µg/kg dw	na	na	na	na	na	4.9 U	4.9 U	0.96 U	na	na	na	na
delta-BHC	µg/kg dw	na	na	na	na	na	4.9 U	4.9 U	0.96 U	na	na	na	na
alpha-Chlordane	µg/kg dw	na	na	na	na	na	4.9 U	4.9 U	0.96 U	na	na	na	na
gamma-Chlordane	µg/kg dw	na	na	na	na	na	4.9 U	4.9 U	0.96 U	na	na	na	na
alpha-Endosulfan	µg/kg dw	na	na	na	na	na	4.9 U	4.9 U	0.96 U	na	na	na	na
beta-Endosulfan	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
Endosulfan sulfate	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
Endrin	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
Endrin aldehyde	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
Endrin ketone	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
Heptachlor	µg/kg dw	na	na	na	na	na	4.9 U	4.9 U	0.96 U	na	na	na	na
Heptachlor epoxide	µg/kg dw	na	na	na	na	na	4.9 U	4.9 U	0.96 U	na	na	na	na
Methoxychlor	µg/kg dw	na	na	na	na	na	49 U	49 U	9.6 U	na	na	na	na
Mirex	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
cis-Nonachlor	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
Oxychlordane	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
Toxaphene	µg/kg dw	na	na	na	na	na	490 U	490 U	96 U	na	na	na	na
trans-Nonachlor	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na
Total chlordane	µg/kg dw	na	na	na	na	na	9.8 U	9.9 U	1.9 U	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC29			LDW-SC30		LDW-SC31			LDW-SC32			
ANALYTE	UNIT	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC29-2-3.6	LDW-SC30-0-2.5	LDW-SC30-2-5.4	LDW-SC31-0-1	LDW-SC31-1-2.8	LDW-SC31-2.8-4	LDW-SC32-0-1	LDW-SC32-1-2	LDW-SC32-2-4	LDW-SC32-5.2-8
Grain size													
Fractional % phi >-1 (>2000 µm)	% dw	0.6	0.3	0.9	0.9	0.1	na	*0.2*	0.8	12.9	3.1	4.2	na
Fractional % phi -1-0 (1000-2000 µm)	% dw	0.9	2.6	5.8	0.7	0.2	1.7	*1*	0.1	5.6	0.9	1.8	na
Fractional % phi 0-1 (500-1000 µm)	% dw	12.6	26.9	39.2	4.7	1.7	1.5	*1.6*	3.1	7.3	2.4	6.4	na
Fractional % phi 1-2 (250-500 µm)	% dw	26.9	37.0	47.4	61.1	7.0	4.2	*4.1*	47.4	10.6	7.2	19.9	na
Fractional % phi 2-3 (125-250 µm)	% dw	6.6	3.1	2.6	26.3	17.0	3.0	*4.7*	40.6	8.6	9.3	14.2	na
Fractional % phi 3-4 (62.5-125 µm)	% dw	9.1	4.4	0.7	1.6	23.4	5.7	*6.4*	6.1	6.4	9.6	9.4	na
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	12.5	6.5	3.4	1.2	22.0	15.1	*12.1*	1.9	2.3	5.4	3.0	na
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	7.1	6.2	na	0.8	13.6	18.1	*17.9*	na	10	30.8	10.3	na
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	8.1	5.1	na	0.8	6.5	17.9	*18.4*	na	15.4	22.2	18.6	na
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	5.1	2.9	na	0.6	3.4	11.2	*10.8*	na	7.6	3.6	5.6	na
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	3.0	1.3	na	0.3	1.6	6.8	*7.3*	na	4.8	1.5	2.4	na
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	2.6	1.1	na	0.1	1.2	4.5	*4.4*	na	3.9	0.4	0.8	na
Fractional % phi 10+ (<0.98 µm)	% dw	5.0	2.4	na	0.9	2.3	10.3	*11.2*	na	4.6	3.7	3.5	na
Rocks (total calc'd)	% dw	0.6	0.3	0.9	0.9	0.1	na	*0.2*	0.8	12.9	3.1	4.2	na
Sand (total calc'd)	% dw	56.1	74.0	95.7	94.4	49.3	16.1	*18*	97.3	38.5	29.4	51.7	na
Silt (total calc'd)	% dw	32.8	20.7	3.4	3.4	45.5	62.3	*59.2*	1.9	35	62.0	37.5	na
Clay (total calc'd)	% dw	10.6	4.8	na	1.3	5.1	21.6	*22.9*	na	13.3	5.6	6.7	na
Fines (percent silt+clay)	% dw	43.4	25.5	3.4	4.7	50.6	83.9	*82.1*	1.9	49	67.6	44.2	na
Conventional parameters													
Total organic carbon (TOC)	% dw	1.77	1.06	0.480	0.541	0.271	2.52	2.18	*0.11*	1.81	1.16	1.47	0.724
Total solids	% ww	70.20	75.00	80.00	79.10	77.50	44.80	50.00	*82.10*	42.60	37.40	45.80	75.70

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC29			LDW-SC30		LDW-SC31			LDW-SC32			
ANALYTE	UNIT	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC29-2-3.6	LDW-SC30-0-2.5	LDW-SC30-2-5.4	LDW-SC31-0-1	LDW-SC31-1-2.8	LDW-SC31-2.8-4	LDW-SC32-0-1	LDW-SC32-1-2	LDW-SC32-2-4	LDW-SC32-5.2-8
Geotechnical													
Bulk density (dry)	pcf	98.6	na	na	97.5	96.3	46.0	63.2	na	na	31.4	40.2	na
Bulk density (wet)	pcf	131.5	na	na	127.7	126.1	91.5	106.2	na	na	82.3	88.5	na
Moisture	% dw	33.31	na	na	30.95	30.90	99.05	67.99	na	na	161.7	120	na
Specific gravity	g/cc	2.68	na	na	2.73	2.69	2.69	2.68	na	na	2.61	2.60	na
Atterberg limits classification	none	non-plastic	na	na	non-plastic	non-plastic	OL	OH	na	na	MH	MH	na
Liquid limit	% dw	na	na	na	na	na	75.9	56.4	na	na	95.4	60.2	na
Plastic limit	% dw	na	na	na	na	na	34.3	27.2	na	na	73.2	49.2	na
Plasticity index	% dw	na	na	na	na	na	41.6	29.2	na	na	22.2	11.0	na
Porosity	S.U.	0.41	na	na	0.43	0.43	0.73	0.62	na	na	0.81	0.75	na

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1i. 1- and 2-ft intervals, samples SC33 through SC34

1- AND 2-FT INTERVALS		LDW-SC33								LDW-SC34						
ANALYTE	UNIT	LDW-SC33-0-2	LDW-SC201-0-1.5 (replicate of LDW-SC33)	LDW-SC33-2-4	LDW-SC201-1.5-4 (replicate of LDW-SC33)	LDW-SC33-4-6	LDW-SC201-4-6 (replicate of LDW-SC33)	LDW-SC33-8-10	LDW-SC201-8-10	LDW-SC34-0-1	LDW-SC203-0-1 (replicate of LDW-SC34)	LDW-SC34-1-2	LDW-SC203-1-2 (replicate of LDW-SC34)	LDW-SC34-2-4	LDW-SC203-2-4 (replicate of LDW-SC34)	LDW-SC203-4-6 (replicate of LDW-SC34)
Metals and trace elements																
Antimony	mg/kg dw	13 J	8 UJ	8 UJ	8 UJ	8 UJ	na	na	na	*10 UJ*	9 UJ	10 UJ	10 UJ	8 UJ	9 UJ	na
Arsenic	mg/kg dw	56	19	13	13	14	na	na	na	*20*	20	20	20	15	15	na
Cadmium	mg/kg dw	1.2	0.7	0.8	0.8	0.7	na	na	na	*0.4 U*	0.6	0.9	0.7	0.3 U	0.4 U	na
Chromium	mg/kg dw	49.9	37.9	37.7	34.1	38.0	na	na	na	*34*	39.5	50	41	30.9	32.0	na
Cobalt	mg/kg dw	12.2	9.6	9.3	9.0	8.9	na	na	na	*9.6*	8.9	8.9	9.8	8.6	8.9	na
Copper	mg/kg dw	190 J	88.0 J	51.0 J	48.4 J	51.8	na	na	na	*78.4*	102	91.4	88.1	51.3	66.9	na
Lead	mg/kg dw	108	772	33	42	33	na	na	na	*60*	78	87	68	78	58	na
Mercury	mg/kg dw	0.39 J	0.28 J	0.30 J	0.30 J	na	na	na	na	*0.26*	0.23	0.25	0.2	0.12	0.17	na
Molybdenum	mg/kg dw	9.1	2.0	1.2	1.2	1.0	na	na	na	*1*	2.8	4	3	1.3	1.3	na
Nickel	mg/kg dw	32	24	19	18	23	na	na	na	*26*	29	29	28	33	27	na
Selenium	mg/kg dw	9 U	8 U	8 U	8 U	8 U	na	na	na	*10 U*	9 U	10 U	10 U	8 U	9 U	na
Silver	mg/kg dw	2.6	1.1	2.2	1.7	1.4	na	na	na	*0.6 U*	0.6 U	0.6 U	0.7 U	0.5 U	0.5 U	na
Thallium	mg/kg dw	9 U	8 U	8 U	8 U	8 U	na	na	na	*10 U*	9 U	10 U	10 U	8 U	9 U	na
Vanadium	mg/kg dw	71.6	72.6	69.5	70.3	71.0	na	na	na	*67.5*	67.1	65.7	73.1	60.4	61.8	na
Zinc	mg/kg dw	236	143	94	98	121	na	na	na	*188*	204	253	225	136	137	na
Organometals																
Monobutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Tributyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PAHs																
1-Methylnaphthalene	µg/kg dw	99 U	20 U	20 UJ	20 U	76	110	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
2-Chloronaphthalene	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
2-Methylnaphthalene	µg/kg dw	99 U	20 U	20 UJ	20 U	63 J	82	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
Acenaphthene	µg/kg dw	200	12 J	66 J	21	1,000	710	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
Acenaphthylene	µg/kg dw	99 U	12 J	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC33								LDW-SC34						
ANALYTE	UNIT	LDW-SC33-0-2	LDW-SC201-0-1.5 (replicate of LDW-SC33)	LDW-SC33-2-4	LDW-SC201-1.5-4 (replicate of LDW-SC33)	LDW-SC33-4-6	LDW-SC201-4-6 (replicate of LDW-SC33)	LDW-SC33-8-10	LDW-SC201-8-10	LDW-SC34-0-1	LDW-SC203-0-1 (replicate of LDW-SC34)	LDW-SC34-1-2	LDW-SC203-1-2 (replicate of LDW-SC34)	LDW-SC34-2-4	LDW-SC203-2-4 (replicate of LDW-SC34)	LDW-SC203-4-6 (replicate of LDW-SC34)
Anthracene	µg/kg dw	210	47	110 J	32	420	490	48 J	40 J	84 J	140 J	160 J	170	99 U	160	74
Benzo(a)anthracene	µg/kg dw	260	140	150 J	48	610	780	95	84	260	350	430	480	130	250	240
Benzo(a)pyrene	µg/kg dw	230	200	79 J	90	270	500	82	61	230	330	400	450	150	190	180
Benzo(b)fluoranthene	µg/kg dw	360	310	120 J	140	380	650	56 J	45 J	380	540	530	640	220	280	340
Benzo(g,h,i)perylene	µg/kg dw	54 J	42	14 J	17 J	110	210	50 J	35 J	63 J	84 J	200	140	99 U	60 J	89
Benzo(k)fluoranthene	µg/kg dw	240	260	86 J	120	250	440	90	72	280	400	470	550	210	260	150
Total benzofluoranthenes	µg/kg dw	600	570	210 J	260	630	1,090	146 J	117 J	660	940	1,000	1,190	430	540	490
Chrysene	µg/kg dw	490	210	170 J	73	560	900	120	94	360	530	720	680	190	370	310
Dibenzo(a,h)anthracene	µg/kg dw	99 U	14 J	20 UJ	20 U	57	100	23	19	110 U	160 U	130 U	110 U	99 U	69 U	39
Dibenzofuran	µg/kg dw	99 U	20 U	25 J	20 U	380	280	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
Fluoranthene	µg/kg dw	1,500	320	850 J	190	3,200	5,000	350	300	810	1,100	1,300 J	1,300	300	700	760
Fluorene	µg/kg dw	170	17 J	65 J	17 J	630	510	38 J	61 U	110 U	160 U	130 U	110 U	99 U	69 U	39 J
Indeno(1,2,3-cd)pyrene	µg/kg dw	57 J	51	16 J	20 J	84	180	48 J	34 J	75 J	100 J	200	160	52 J	71	66
Naphthalene	µg/kg dw	99 U	20 U	17 J	27	410	380	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
Phenanthrene	µg/kg dw	640	120	170 J	54	1,400	1,300	150	150	280	180	340 J	440	110	170	170
Pyrene	µg/kg dw	1,100	500	470 J	580 J	2,600	4,700	210	150	540	800	920 J	910	460	630	690
Total HPAH	µg/kg dw	4,300 J	2,050 J	1,960 J	1,280 J	8,100	13,500	1,120 J	890 J	3,000 J	4,200 J	5,200 J	5,300	1,710 J	2,810 J	2,860
Total LPAH	µg/kg dw	1,220	210 J	430 J	151 J	3,900	3,400	240 J	190 J	360 J	320 J	500 J	610	110	330	280 J
Carcinogenic PAHs	µg/kg dw	350 J	280 J	120 J	130 J	430	750	120 J	93 J	360 J	510 J	600	660	230 J	290	280
Total PAH	µg/kg dw	5,500 J	2,260 J	2,380 J	1,430 J	12,000	16,900	1,360 J	1,080 J	3,360 J	4,600 J	5,700 J	5,900	1,820 J	3,140 J	3,150 J
Phthalates																
Bis(2-ethylhexyl)phthalate	µg/kg dw	400	380	130 J	100	56 J	65 U	61 U	61 U	920	1,800	3,900	2,600	670	590	770
Butyl benzyl phthalate	µg/kg dw	11	29	5.9 U	6.0 U	6.5 U	6.5 U	6.1 U	6.1 U	440	380	400	400	44	140	48
Diethyl phthalate	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
Dimethyl phthalate	µg/kg dw	99 U	20 U	20 UJ	20 U	6.5 U	6.5 U	61 U	61 U	110 U	1,700	130 U	110 U	99 U	8,800	210
Di-n-butyl phthalate	µg/kg dw	99 U	40 U	23 UJ	24 U	65 U	65 U	61 U	61 U	110 U	160 U	180 UJ	110 U	99 U	69 U	66 U
Di-n-octyl phthalate	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	220	110 U	64 J	69 U	66 U
Other SVOCs																

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC33								LDW-SC34						
ANALYTE	UNIT	LDW-SC33-0-2	LDW-SC201-0-1.5 (replicate of LDW-SC33)	LDW-SC33-2-4	LDW-SC201-1.5-4 (replicate of LDW-SC33)	LDW-SC33-4-6	LDW-SC201-4-6 (replicate of LDW-SC33)	LDW-SC33-8-10	LDW-SC201-8-10	LDW-SC34-0-1	LDW-SC203-0-1 (replicate of LDW-SC34)	LDW-SC34-1-2	LDW-SC203-1-2 (replicate of LDW-SC34)	LDW-SC34-2-4	LDW-SC203-2-4 (replicate of LDW-SC34)	LDW-SC203-4-6 (replicate of LDW-SC34)
1,2,4-Trichlorobenzene	µg/kg dw	6.5 J	6.0 J	5.9 UJ	6.0 UJ	6.5 U	6.5 U	6.1 UJ	6.1 UJ	6.7 UJ	9.3 UJ	7.8 UJ	11 UJ	6.0 UJ	6.9 UJ	6.6 U
1,2-Dichlorobenzene	µg/kg dw	5.9 U	6.0 U	5.9 U	6.0 U	6.5 U	6.5 U	6.1 U	6.1 U	6.7 U	9.3 U	4.6 J	11 U	6.0 U	6.9 U	6.6 U
1,3-Dichlorobenzene	µg/kg dw	99 U	20 U	20 UJ	20 U	6.5 U	6.5 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	6.6 U
1,4-Dichlorobenzene	µg/kg dw	5.9 U	6.0 U	5.9 U	6.0 U	5.9 J	3.9 J	6.1 U	6.1 U	4.0 J	5.6 J	7.0 J	6.5 J	6.0 U	6.9 U	6.6 U
2,4,5-Trichlorophenol	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 U	780 U	650 U	540 U	500 U	350 U	330 U
2,4,6-Trichlorophenol	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 U	780 U	650 U	540 U	500 U	350 U	330 U
2,4-Dichlorophenol	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 U	780 U	650 U	540 U	500 U	350 U	330 U
2,4-Dimethylphenol	µg/kg dw	18 UJ	17 UJ	18 UJ	18 UJ	6.5 UJ	6.5 J	5.5 J	3.7 J	6.7 U	9.3 U	7.8 U	11 U	6.0 U	6.9 U	6.6 U
2,4-Dinitrophenol	µg/kg dw	990 U	200 U	200 UJ	200 U	650 U	650 U	610 UJ	610 UJ	1,100 UJ	1,600 UJ	1,300 U	1,100 UJ	990 UJ	690 UJ	660 U
2,4-Dinitrotoluene	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 U	780 U	650 U	540 U	500 U	350 U	330 U
2,6-Dinitrotoluene	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 U	780 U	650 U	540 U	500 U	350 U	330 U
2-Chlorophenol	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
2-Methylphenol	µg/kg dw	5.9 U	6.0 U	5.9 U	6.0 U	6.5 U	6.5 U	6.1 U	6.1 U	6.7 J	20 J	9.3 J	11 U	6.0 U	6.9 U	6.6 U
2-Nitroaniline	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 U	780 U	650 U	540 U	500 U	350 U	330 U
2-Nitrophenol	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 U	780 U	650 U	540 U	500 U	350 U	330 U
3,3'-Dichlorobenzidine	µg/kg dw	490 UJ	99 UJ	99 UJ	100 UJ	330 U	330 U	310 U	300 U	560 UJ	780 UJ	650 UJ	540 UJ	500 UJ	350 UJ	330 U
3-Nitroaniline	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 UJ	780 UJ	650 UJ	540 UJ	500 UJ	350 UJ	330 U
4,6-Dinitro-o-cresol	µg/kg dw	990 UJ	200 UJ	200 UJ	200 UJ	650 U	650 U	610 UJ	610 UJ	1,100 U	1,600 U	1,300 UJ	1,100 UJ	990 U	690 UJ	660 U
4-Bromophenyl phenyl ether	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 UJ	110 U	99 U	69 U	66 U
4-Chloro-3-methylphenol	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 U	780 U	650 U	540 U	500 U	350 U	330 U
4-Chloroaniline	µg/kg dw	490 UJ	99 UJ	99 UJ	100 UJ	330 U	330 U	310 U	300 U	560 UJ	780 UJ	650 UJ	540 UJ	500 UJ	350 UJ	330 U
4-Chlorophenyl phenyl ether	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
4-Methylphenol	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
4-Nitroaniline	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 U	780 U	650 U	540 U	500 U	350 U	330 U
4-Nitrophenol	µg/kg dw	490 U	99 U	99 UJ	100 U	330 U	330 U	310 U	300 U	560 U	780 U	650 U	540 U	500 U	350 U	330 U
Aniline	µg/kg dw	99 UJ	20 UJ	20 UJ	20 UJ	65 U	65 U	61 U	61 U	110 UJ	160 UJ	130 UJ	110 UJ	99 UJ	69 UJ	66 U
Benzoic acid	µg/kg dw	230 UJ	170 UJ	170 UJ	160 UJ	590 U	590 U	610 U	610 U	160 U	420	140 U	140 U	110 U	570	590 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC33								LDW-SC34						
ANALYTE	UNIT	LDW-SC33-0-2	LDW-SC201-0-1.5 (replicate of LDW-SC33)	LDW-SC33-2-4	LDW-SC201-1.5-4 (replicate of LDW-SC33)	LDW-SC33-4-6	LDW-SC201-4-6 (replicate of LDW-SC33)	LDW-SC33-8-10	LDW-SC201-8-10	LDW-SC34-0-1	LDW-SC203-0-1 (replicate of LDW-SC34)	LDW-SC34-1-2	LDW-SC203-1-2 (replicate of LDW-SC34)	LDW-SC34-2-4	LDW-SC203-2-4 (replicate of LDW-SC34)	LDW-SC203-4-6 (replicate of LDW-SC34)
Benzyl alcohol	µg/kg dw	30 UJ	30 UJ	30 UJ	30 UJ	33 U	33 U	34 U	38 U	34	66	210	41 J	20 J	35 U	33 U
bis(2-chloroethoxy) methane	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
bis(2-chloroethyl)ether	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
bis(2-chloroisopropyl) ether	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
Hexachlorobenzene	µg/kg dw	5.9 U	6.0 U	5.9 U	6.0 U	6.5 U	6.5 U	6.1 U	6.1 U	0.98 U	4.9 U	4.9 U	4.9 U	0.96 U	4.9 U	6.6 U
Hexachlorobutadiene	µg/kg dw	5.9 U	6.0 U	5.9 U	6.0 U	6.5 U	6.5 U	6.1 U	6.1 U	0.98 U	4.9 U	4.9 U	4.9 U	0.96 U	4.9 U	6.6 U
Hexachlorocyclopenta-diene	µg/kg dw	490 UJ	99 UJ	99 UJ	100 UJ	330 U	330 U	310 UJ	300 UJ	560 UJ	780 UJ	650 UJ	540 UJ	500 UJ	350 UJ	330 U
Hexachloroethane	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
Isophorone	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
Nitrobenzene	µg/kg dw	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
N-Nitrosodimethylamine	µg/kg dw	30 U	30 U	30 U	30 U	33 U	33 U	31 U	30 U	34 U	47 U	39 U	54 U	30 U	35 U	33 U
N-Nitroso-di-n-propylamine	µg/kg dw	30 U	30 U	30 U	30 U	33 U	33 U	31 UJ	30 UJ	34 U	47 U	39 U	54 U	30 U	35 U	33 U
N-Nitrosodiphenylamine	µg/kg dw	870 U	29 U	100 U	36 U	200 U	190 U	27 UJ	37 UJ	48 U	98 U	290 U	200 U	32 U	28 U	62 U
Pentachlorophenol	µg/kg dw	730	30 U	30 U	30 U	36	36	31 U	30 U	76	47 U	39 U	54 U	30 U	35 U	63
Phenol	µg/kg dw	99 U	27 U	31 UJ	30 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	62 J	66 U
Polychlorinated biphenyls																
Aroclor-1016	µg/kg dw	350 U	69 U	32 U	33 U	20 U	15 U	3.9 UJ	3.9 U	20 U	20 U	20 U	39 U	19 U	20 U	12 U
Aroclor-1221	µg/kg dw	350 U	69 U	32 U	33 U	12 U	12 U	3.9 UJ	3.9 U	20 U	20 U	20 U	39 U	19 U	20 U	12 U
Aroclor-1232	µg/kg dw	350 U	69 U	48 U	33 U	32 U	23 U	3.9 UJ	3.9 U	20 U	20 U	20 U	39 U	19 U	20 U	12 U
Aroclor-1242	µg/kg dw	1,500	330	32 U	74 J	24 U	19 U	3.9 UJ	3.9 U	20 U	20 U	20 U	39 U	19 U	20 U	41
Aroclor-1248	µg/kg dw	350 U	69 U	64 U	33 U	24 U	19 U	3.9 UJ	3.9 U	99 U	60	82	330 U	58	38	12 U
Aroclor-1254	µg/kg dw	860	510	240	220 J	150	120	3.9 UJ	3.9 U	110	110	120	110	110	81	80
Aroclor-1260	µg/kg dw	760	610	180	240 J	130	220	3.9 UJ	3.9 U	100	84	77	140 U	81	55	60
Total PCBs	µg/kg dw	3,100	1,450	420	530 J	280	340	3.9 UJ	3.9 U	210	250	280	110	250	174	181
Pesticides																
2,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC33								LDW-SC34						
ANALYTE	UNIT	LDW-SC33-0-2	LDW-SC201-0-1.5 (replicate of LDW-SC33)	LDW-SC33-2-4	LDW-SC201-1.5-4 (replicate of LDW-SC33)	LDW-SC33-4-6	LDW-SC201-4-6 (replicate of LDW-SC33)	LDW-SC33-8-10	LDW-SC201-8-10	LDW-SC34-0-1	LDW-SC203-0-1 (replicate of LDW-SC34)	LDW-SC34-1-2	LDW-SC203-1-2 (replicate of LDW-SC34)	LDW-SC34-2-4	LDW-SC203-2-4 (replicate of LDW-SC34)	LDW-SC203-4-6 (replicate of LDW-SC34)
2,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	5.7 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
2,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
4,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	3.6 U	9.7 U	na
4,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
4,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	13 U	32 U	41 U	12 U	8.3 U	9.7 U	na
Total DDTs	µg/kg dw	na	na	na	na	na	na	na	na	13 U	32 U	41 U	12 U	8.3 U	9.7 U	na
Aldrin	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	4.9 U	4.9 U	4.9 U	0.96 U	4.9 U	na
Dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
Total aldrin/dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
alpha-BHC	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	4.9 U	4.9 U	4.9 U	0.96 U	4.9 U	na
beta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	4.9 U	4.9 U	4.9 U	2.0 U	4.9 U	na
gamma-BHC	µg/kg dw	na	na	na	na	na	na	na	na	3.1 U	4.9 U	4.9 U	4.9 U	0.96 U	4.9 U	na
delta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	7.0	23	19	60	0.96 U	29	na
alpha-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	4.9 U	9.2 U	4.9 U	2.3 U	4.9 U	na
gamma-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	3.2 U	9.2 U	14 U	4.9 U	1.7 U	4.9 U	na
alpha-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	4.9 U	4.9 U	4.9 U	0.96 U	4.9 U	na
beta-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
Endosulfan sulfate	µg/kg dw	na	na	na	na	na	na	na	na	9.2 U	9.8 U	9.8 U	9.8 U	3.4 U	9.7 U	na
Endrin	µg/kg dw	na	na	na	na	na	na	na	na	11 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
Endrin aldehyde	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	23 U	9.8 U	1.9 U	9.7 U	na
Endrin ketone	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
Heptachlor	µg/kg dw	na	na	na	na	na	na	na	na	0.98 U	4.9 U	4.9 U	4.9 U	0.96 U	4.9 U	na
Heptachlor epoxide	µg/kg dw	na	na	na	na	na	na	na	na	2.5 U	4.9 U	4.9 U	4.9 U	4.1 U	4.9 U	na
Methoxychlor	µg/kg dw	na	na	na	na	na	na	na	na	9.8 U	49 U	49 U	49 U	9.6 U	49 U	na
Mirex	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
cis-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
Oxychlordane	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
Toxaphene	µg/kg dw	na	na	na	na	na	na	na	na	98 U	490 U	490 U	490 U	96 U	490 U	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC33								LDW-SC34						
ANALYTE	UNIT	LDW-SC33-0-2	LDW-SC201-0-1.5 (replicate of LDW-SC33)	LDW-SC33-2-4	LDW-SC201-1.5-4 (replicate of LDW-SC33)	LDW-SC33-4-6	LDW-SC201-4-6 (replicate of LDW-SC33)	LDW-SC33-8-10	LDW-SC201-8-10	LDW-SC34-0-1	LDW-SC203-0-1 (replicate of LDW-SC34)	LDW-SC34-1-2	LDW-SC203-1-2 (replicate of LDW-SC34)	LDW-SC34-2-4	LDW-SC203-2-4 (replicate of LDW-SC34)	LDW-SC203-4-6 (replicate of LDW-SC34)
trans-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
Total chlordane	µg/kg dw	na	na	na	na	na	na	na	na	3.2 U	9.8 U	14 U	9.8 U	2.3 U	9.7 U	na
Grain size																
Fractional % phi >-1 (>2000 µm)	% dw	2.0	0.1	0.5	0.2	na	na	na	na	1.4	3.0	2.4	2.7	5.8	4.3	na
Fractional % phi -1-0 (1000-2000 µm)	% dw	1.5	0.6	0.2	0.5	na	na	na	na	1.7	1.6	2.6	2.5	4.1	3.0	na
Fractional % phi 0-1 (500-1000 µm)	% dw	2.8	1.2	0.7	0.7	na	na	na	na	3.6	3.0	2.7	2.7	11.4	8.7	na
Fractional % phi 1-2 (250-500 µm)	% dw	3.4	3.3	1.2	0.9	na	na	na	na	6.3	4.4	3.1	3.2	17.0	12.9	na
Fractional % phi 2-3 (125-250 µm)	% dw	4.5	4.9	5.2	5.2	na	na	na	na	7.7	2.4	4.7	4.6	6.3	6.5	na
Fractional % phi 3-4 (62.5-125 µm)	% dw	3.7	13.0	18.1	16.6	na	na	na	na	7.7	13.8	8.7	10.1	5.3	5.5	na
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	15.2	14.8	16.4	17.5	na	na	na	na	9.9	10.5	10	14.4	6.6	6.6	na
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	18.6	17.9	19.2	18.4	na	na	na	na	15.6	16.6	22.0	22.1	11.8	15.6	na
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	19.5	14.4	15.4	13.8	na	na	na	na	15.8	18.8	23.9	19.4	16.4	19.4	na
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	9.3	10.4	7.0	9.1	na	na	na	na	9.5	7.8	6.1	5.4	5.1	5.8	na
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	5.3	5.5	4.3	5.4	na	na	na	na	6.6	5.1	3.7	3.4	2.7	3.0	na
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	4.1	4.2	3.5	3.5	na	na	na	na	3.7	3.8	2.3	2.3	2.3	2.6	na
Fractional % phi 10+ (<0.98 µm)	% dw	10.1	9.6	8.4	8.2	na	na	na	na	10.5	9.0	7.7	7.0	5.2	5.9	na
Rocks (total calc'd)	% dw	2.0	0.1	0.5	0.2	na	na	na	na	1.4	3.0	2.4	2.7	5.8	4.3	na
Sand (total calc'd)	% dw	15.9	23.0	25.4	23.9	na	na	na	na	27.0	25.2	21.8	23.1	44.1	36.6	na
Silt (total calc'd)	% dw	62.6	57.5	58.0	58.8	na	na	na	na	50.8	53.7	62	61.3	39.9	47.4	na
Clay (total calc'd)	% dw	19.5	19.3	16.2	17.1	na	na	na	na	20.8	17.9	13.7	12.7	10.2	11.5	na
Fines (percent silt+clay)	% dw	82.1	76.8	74.2	75.9	na	na	na	na	71.6	71.6	76	74.0	50.1	58.9	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC33								LDW-SC34						
ANALYTE	UNIT	LDW-SC33-0-2	LDW-SC201-0-1.5 (replicate of LDW-SC33)	LDW-SC33-2-4	LDW-SC201-1.5-4 (replicate of LDW-SC33)	LDW-SC33-4-6	LDW-SC201-4-6 (replicate of LDW-SC33)	LDW-SC33-8-10	LDW-SC201-8-10	LDW-SC34-0-1	LDW-SC203-0-1 (replicate of LDW-SC34)	LDW-SC34-1-2	LDW-SC203-1-2 (replicate of LDW-SC34)	LDW-SC34-2-4	LDW-SC203-2-4 (replicate of LDW-SC34)	LDW-SC203-4-6 (replicate of LDW-SC34)
Conventional parameters																
Total organic carbon (TOC)	% dw	3.34	1.88	1.62	1.33	2.10	2.13	1.53	1.55	2.90	3.27	3.02	2.91	2.05	2.59	2.44
Total solids	% ww	55.80	56.80	61.50	59.30	60.40	57.10	65.30	65.10	46.10	45.50	50.00	47.30	59.90	52.90	58.80
Geotechnical																
Bulk density (dry)	pcf	54.5	na	62.7	na	na	na	na	na	na	na	na	37.3	na	47.6	na
Bulk density (wet)	pcf	101.1	na	105.3	na	na	na	na	na	na	na	na	77.5	na	90.2	na
Moisture	% dw	85.35	na	67.88	na	na	na	na	na	na	na	na	107.9	na	89.63	na
Specific gravity	g/cc	2.69	na	2.69	na	na	na	na	na	na	na	na	2.65	na	2.06	na
Atterberg limits classification	none	OH	na	OH	na	na	na	na	na	na	na	na	MH	na	MH	na
Liquid limit	% dw	74.0	na	57.1	na	na	na	na	na	na	na	na	62.7	na	55.5	na
Plastic limit	% dw	39.2	na	41.2	na	na	na	na	na	na	na	na	44.9	na	40.7	na
Plasticity index	% dw	34.8	na	15.9	na	na	na	na	na	na	na	na	17.8	na	14.8	na
Porosity	S.U.	0.68	na	0.63	na	na	na	na	na	na	na	na	0.77	na	0.63	na

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1j. 1- and 2-ft intervals, samples SC35 through SC38

1- AND 2-FT INTERVALS		LDW-SC35		LDW-SC36						LDW-SC37				LDW-SC38a			LDW-SC38b
ANALYTE	UNIT	LDW-SC35-0-2	LDW-SC35-2-4	LDW-SC36-0-1	LDW-SC202-0-1 (replicate of LDW-SC36 R1)	LDW-SC36-1-2	LDW-SC202-1-2 (replicate of LDW-SC36 R1)	LDW-SC36-2-4	LDW-SC202-2-4 (replicate of LDW-SC36 R1)	LDW-SC37-0-1	LDW-SC37-1-2	LDW-SC37-2-4	LDW-SC37-5.3-6.9	LDW-SC38-0-1	LDW-SC38-1-2	LDW-SC38-2-3	LDW-SC38-3-3.3
Metals and trace elements																	
Antimony	mg/kg dw	9 UJ	8 UJ	*8 UJ*	8 UJ	7 UJ	8 UJ	7 UJ	7 UJ	30 J	*30 J*	590 J	8 J	7 UJ	7 UJ	7 UJ	7 UJ
Arsenic	mg/kg dw	18	16	*12*	13	11	12	10	9	150	*121*	2,000	21	11	10	13	7 U
Cadmium	mg/kg dw	0.3 U	0.5	*0.3*	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.9 U	*0.7*	4	0.3 U	0.3 U	0.3 U	0.5	0.3 U
Chromium	mg/kg dw	36.1	34.2	*24.4*	24.8	25.2	23.3	17.3	17.7	48	*44.7*	126	10.3	23.4	22.0	26.8	12.4
Cobalt	mg/kg dw	8.9	9.7	*7.6*	8.1	7.8	8.0	6.2	6.5	18	*12.2*	100	4.9	7.4	6.9	6.9	6.2
Copper	mg/kg dw	61.2	63.6	*45.8*	56.3	36.9	37.6	24.5	25.6	236	*330*	2,940	21.3	34.7	31.5	38.5	20.1
Lead	mg/kg dw	42	73	*26*	19	16	16	7	6	121 J	*247 J*	3,520 J	16	28	19	36	8
Mercury	mg/kg dw	0.17	0.20	*0.28*	0.14	0.33	0.21	0.13	0.11	0.26 J	*0.45 J*	0.37 J	na	0.31	0.27	0.45	0.05 U
Molybdenum	mg/kg dw	1.0	1.2	*0.9*	0.8 U	0.7 U	0.8 U	0.7 U	0.7 U	9	*9.3*	113	1.6	0.7 U	0.7 U	0.7 U	0.9
Nickel	mg/kg dw	23	26	*19*	21	22	18	13	14	35	*20*	48	7	15	14	15	18
Selenium	mg/kg dw	9 U	8 U	*8 U*	8 U	7 U	8 U	7 U	7 U	20 U	*8 U*	40 U	7 U	7 U	7 U	7 U	7 U
Silver	mg/kg dw	0.5 U	0.5 U	*0.5 U*	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	1 U	*0.9*	3	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U
Thallium	mg/kg dw	9 U	8 U	*8 U*	8 U	7 U	8 U	7 U	7 U	20 U	*8 U*	40 U	7 U	7 U	7 U	7 U	7 U
Vanadium	mg/kg dw	71.3	66.1	*63.2*	65.2	63.4	64.0	56.5	58.2	85	*58.8*	55	39.0	56.7	57.1	57.1	39.4
Zinc	mg/kg dw	120	211	*81.2*	74	67.1	65.2	40.6	42.0	386	*490*	4,720	78.5	64.1	54.5	76.8	30.4
Organometals																	
Monobutyltin as ion	µg/kg dw	na	na	4.0 U	4.0 U	4.1 U	3.9 U	3.9 U	3.9 U	na	na	na	na	na	na	na	na
Dibutyltin as ion	µg/kg dw	na	na	5.7 U	5.7 U	5.8 U	5.5 U	5.5 U	5.6 U	na	na	na	na	na	na	na	na
Tributyltin as ion	µg/kg dw	na	na	28	5.5	3.9 U	3.7 U	3.7 U	3.7 U	na	na	na	na	na	na	na	na
PAHs																	
1-Methylnaphthalene	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	270	66 U	20 U	20 UJ	120 J	19 U
2-Chloronaphthalene	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 UJ	19 U
2-Methylnaphthalene	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	330	66 U	20 U	20 UJ	120 J	19 U
Acenaphthene	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	120	620	66 U	20 U	13 J	810 J	210

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC35		LDW-SC36						LDW-SC37				LDW-SC38a			LDW-SC38b
ANALYTE	UNIT	LDW-SC35-0-2	LDW-SC35-2-4	LDW-SC36-0-1	LDW-SC202-0-1 (replicate of LDW-SC36 R1)	LDW-SC36-1-2	LDW-SC202-1-2 (replicate of LDW-SC36 R1)	LDW-SC36-2-4	LDW-SC202-2-4 (replicate of LDW-SC36 R1)	LDW-SC37-0-1	LDW-SC37-1-2	LDW-SC37-2-4	LDW-SC37-5.3-6.9	LDW-SC38-0-1	LDW-SC38-1-2	LDW-SC38-2-3	LDW-SC38-3-3.3
Acenaphthylene	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	77 J	160	64 J	66 U	20 U	20 UJ	10 J	19 U
Anthracene	µg/kg dw	70	43 J	29 J	14 J	40 U	39 U	38 U	39 U	220	670	1,200	66 U	20 U	20 UJ	230 J	19 U
Benzo(a)anthracene	µg/kg dw	170	130	81	51	30 J	28 J	38 U	39 U	1,100	3,100	4,500	39 J	12 J	14 J	130 J	12 J
Benzo(a)pyrene	µg/kg dw	200	210	74	56	20 J	20 J	38 U	39 U	2,000	5,300	4,000	66 U	20 U	20 UJ	39 J	11 J
Benzo(b)fluoranthene	µg/kg dw	360	350	92	120	25 J	29 J	38 U	39 U	3,000	6,400	5,000	33 J	13 J	12 J	84 J	9.9 J
Benzo(g,h,i)perylene	µg/kg dw	45 J	47 J	31 J	16 J	40 U	39 U	38 U	39 U	530	1,000	830	66 U	20 U	20 UJ	20 UJ	19 U
Benzo(k)fluoranthene	µg/kg dw	220	280	96	91	28 J	27 J	38 U	39 U	2,100	3,800	4,100	66 U	11 J	12 J	74 J	13 J
Total benzofluoranthenes	µg/kg dw	580	630	188	210	53 J	56 J	38 U	39 U	5,100	10,200	9,100	33 J	24 J	24 J	158 J	23 J
Chrysene	µg/kg dw	260	200	110	72	36 J	30 J	38 U	39 U	1,600	4,800	5,000	40 J	12 J	13 J	130 J	12 J
Dibenzo(a,h)anthracene	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	170	360	270	14	20 U	20 UJ	20 UJ	19 U
Dibenzofuran	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	88 J	570	66 U	20 U	20 UJ	250 J	19 U
Fluoranthene	µg/kg dw	330	300	160	110	65	69	34 J	42	1,600	4,500	13,000	94	36	49 J	1,300 J	36
Fluorene	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	170	750	66 U	20 U	20 UJ	290 J	19 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	50 J	53 J	35 J	19 J	40 UJ	39 UJ	38 UJ	39 UJ	750	1,500	1,200	66 U	20 U	20 UJ	20 UJ	19 U
Naphthalene	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	87 J	400	66 U	20 U	20 UJ	330 J	19 U
Phenanthrene	µg/kg dw	110	92	51	37	24 J	27 J	38 U	24 J	350	1,400	7,500	46 J	12 J	16 J	960 J	10 J
Pyrene	µg/kg dw	490	530	150	93	70	78	22 J	28 J	2,900	9,200	8,900	130	38	45 J	660 J	40
Total HPAH	µg/kg dw	2,130 J	2,100 J	830 J	630 J	274 J	281 J	56 J	70 J	15,800	40,000	47,000	350 J	122 J	145 J	2,400 J	134 J
Total LPAH	µg/kg dw	180	135 J	80 J	51 J	24 J	27 J	38 U	24 J	650 J	2,600 J	10,500 J	46 J	12 J	29 J	2,630 J	220 J
Carcinogenic PAHs	µg/kg dw	290 J	310 J	110 J	89 J	39 J	38 J	34 UJ	35 UJ	2,800	7,000	5,600	53 J	19 J	19 J	74 J	19 J
Total PAH	µg/kg dw	2,310 J	2,240 J	910 J	680 J	298 J	308 J	56 J	94 J	16,400 J	42,600 J	57,000 J	400 J	134 J	174 J	5,000 J	350 J
Phthalates																	
Bis(2-ethylhexyl)phthalate	µg/kg dw	400	380	73	54 J	40 U	39 U	38 U	39 U	850	1,100 J	540 J	66 U	22	13 J	80 J	19 U
Butyl benzyl phthalate	µg/kg dw	43	32	12 U	9.5	12 U	12 U	5.8 J	12 U	41 J	51	7.1 U	6.6 U	6.0 U	6.0 U	10	6.4
Diethyl phthalate	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 UJ	19 U
Dimethyl phthalate	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	6.6 U	20 U	20 UJ	20 UJ	19 U
Di-n-butyl phthalate	µg/kg dw	60 U	59 U	24 J	14 J	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	10 J	20 UJ	13 J	12 J
Di-n-octyl phthalate	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	79 J	120 U	66 U	20 U	20 UJ	20 UJ	19 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC35		LDW-SC36						LDW-SC37				LDW-SC38a			LDW-SC38b
ANALYTE	UNIT	LDW-SC35-0-2	LDW-SC35-2-4	LDW-SC36-0-1	LDW-SC202-0-1 (replicate of LDW-SC36 R1)	LDW-SC36-1-2	LDW-SC202-1-2 (replicate of LDW-SC36 R1)	LDW-SC36-2-4	LDW-SC202-2-4 (replicate of LDW-SC36 R1)	LDW-SC37-0-1	LDW-SC37-1-2	LDW-SC37-2-4	LDW-SC37-5.3-6.9	LDW-SC38-0-1	LDW-SC38-1-2	LDW-SC38-2-3	LDW-SC38-3-3.3
Other SVOCs																	
1,2,4-Trichlorobenzene	µg/kg dw	6.0 U	5.9 U	12 UJ	6.0 UJ	12 UJ	12 UJ	12 UJ	12 UJ	6.0 U	4.2 J	46	6.6 U	6.0 UJ	6.0 UJ	5.9 UJ	5.8 UJ
1,2-Dichlorobenzene	µg/kg dw	6.0 U	5.9 U	12 U	6.0 U	12 U	12 U	12 U	12 U	4.2 J	9.6	150	6.6 U	6.0 U	6.0 U	5.9 U	5.8 U
1,3-Dichlorobenzene	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	6.6 U	20 U	20 UJ	20 UJ	19 U
1,4-Dichlorobenzene	µg/kg dw	6.0 U	5.9 U	12 U	6.0 U	12 U	12 U	12 U	12 U	5.4 J	6.0 U	21	6.6 U	6.0 U	6.0 U	5.9 U	5.8 U
2,4,5-Trichlorophenol	µg/kg dw	300 U	300 U	200 U	99 U	200 U	190 U	190 U	200 U	500 U	500 U	590 U	330 U	99 U	100 UJ	98 U	97 U
2,4,6-Trichlorophenol	µg/kg dw	300 U	300 U	200 U	99 U	200 U	190 U	190 U	200 U	500 U	500 U	590 U	330 U	99 U	100 UJ	98 U	97 U
2,4-Dichlorophenol	µg/kg dw	300 U	300 U	200 U	99 U	200 U	190 U	190 U	200 U	500 U	500 U	590 U	330 U	99 U	100 UJ	98 U	97 U
2,4-Dimethylphenol	µg/kg dw	6.0 U	5.9 U	12 U	6.0 U	12 U	12 U	12 U	12 U	6.0 UJ	11 J	28 UJ	6.6 U	6.0 U	6.0 U	5.9 U	5.8 U
2,4-Dinitrophenol	µg/kg dw	600 U	590 U	400 UJ	200 UJ	400 UJ	390 UJ	380 UJ	390 UJ	1,000 UJ	1,000 UJ	1,200 UJ	660 U	200 UJ	200 UJ	200 UJ	190 UJ
2,4-Dinitrotoluene	µg/kg dw	300 U	300 U	200 U	99 U	200 U	190 U	190 U	200 U	500 U	500 U	590 U	330 U	99 U	100 UJ	98 UJ	97 U
2,6-Dinitrotoluene	µg/kg dw	300 U	300 U	200 U	99 U	200 U	190 U	190 U	200 U	500 U	500 U	590 U	330 U	99 U	100 UJ	98 UJ	97 U
2-Chlorophenol	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 U	19 U
2-Methylphenol	µg/kg dw	6.0 U	5.9 U	12 U	6.0 U	12 U	12 U	12 U	12 U	6.0 UJ	16 J	5.7 J	6.6 U	6.0 U	6.0 U	5.9 U	5.8 U
2-Nitroaniline	µg/kg dw	300 U	300 U	200 U	99 U	200 U	190 U	190 U	200 U	500 U	500 U	590 U	330 U	99 U	100 UJ	98 UJ	97 U
2-Nitrophenol	µg/kg dw	300 U	300 U	200 U	99 U	200 U	190 U	190 U	200 U	500 U	500 U	590 U	330 U	99 U	100 UJ	98 U	97 U
3,3'-Dichlorobenzidine	µg/kg dw	300 UJ	300 UJ	200 UJ	99 UJ	200 UJ	190 UJ	190 UJ	200 UJ	500 UJ	500 UJ	590 UJ	330 U	99 UJ	100 UJ	98 UJ	97 UJ
3-Nitroaniline	µg/kg dw	300 U	300 U	200 UJ	99 UJ	200 UJ	190 UJ	190 UJ	200 UJ	500 UJ	500 UJ	590 UJ	330 U	99 U	100 UJ	98 UJ	97 U
4,6-Dinitro-o-cresol	µg/kg dw	600 U	590 U	400 UJ	200 UJ	400 UJ	390 UJ	380 UJ	390 UJ	1,000 U	1,000 UJ	1,200 U	660 U	200 UJ	200 UJ	200 UJ	190 UJ
4-Bromophenyl phenyl ether	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 UJ	19 U
4-Chloro-3-methylphenol	µg/kg dw	300 U	300 U	200 U	99 U	200 U	190 U	190 U	200 U	500 U	500 U	590 U	330 U	99 U	100 UJ	98 U	97 U
4-Chloroaniline	µg/kg dw	300 UJ	300 UJ	200 UJ	99 UJ	200 UJ	190 UJ	190 UJ	200 UJ	500 UJ	500 UJ	590 UJ	330 U	99 UJ	100 UJ	98 UJ	97 UJ
4-Chlorophenyl phenyl ether	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 UJ	19 U
4-Methylphenol	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	110 J	66 U	20 U	20 UJ	20 U	19 U
4-Nitroaniline	µg/kg dw	300 U	300 U	200 U	99 U	200 U	190 U	190 U	200 U	500 U	500 U	590 U	330 U	99 U	100 UJ	98 UJ	97 U
4-Nitrophenol	µg/kg dw	300 U	300 U	200 UJ	99 UJ	200 UJ	190 UJ	190 UJ	200 UJ	500 U	500 U	590 U	330 U	99 U	100 UJ	98 U	97 U
Aniline	µg/kg dw	60 UJ	59 UJ	40 U	20 U	40 U	39 U	38 U	39 U	100 UJ	100 UJ	120 UJ	66 U	33 UJ	20 UJ	20 UJ	19 UJ

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC35		LDW-SC36						LDW-SC37				LDW-SC38a			LDW-SC38b
ANALYTE	UNIT	LDW-SC35-0-2	LDW-SC35-2-4	LDW-SC36-0-1	LDW-SC202-0-1 (replicate of LDW-SC36 R1)	LDW-SC36-1-2	LDW-SC202-1-2 (replicate of LDW-SC36 R1)	LDW-SC36-2-4	LDW-SC202-2-4 (replicate of LDW-SC36 R1)	LDW-SC37-0-1	LDW-SC37-1-2	LDW-SC37-2-4	LDW-SC37-5.3-6.9	LDW-SC38-0-1	LDW-SC38-1-2	LDW-SC38-2-3	LDW-SC38-3-3.3
Benzoic acid	µg/kg dw	120	130	170 UJ	150 UJ	180 UJ	170 UJ	120 UJ	120 UJ	140	130	230	590 U	57 J	60 U	77 J	58 J
Benzyl alcohol	µg/kg dw	30 U	30 U	60 UJ	30 UJ	60 UJ	58 UJ	58 UJ	59 U	22 J	22 J	34 J	33 U	30 U	30 U	30 U	29 U
bis(2-chloroethoxy) methane	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 UJ	19 U
bis(2-chloroethyl)ether	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 UJ	19 U
bis(2-chloroisopropyl) ether	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 UJ	19 U
Hexachlorobenzene	µg/kg dw	6.0 U	5.9 U	12 U	6.0 U	12 U	12 U	12 U	12 U	6.0 U	6.0 U	7.1 U	6.6 U	6.0 U	6.0 U	5.9 U	5.8 U
Hexachlorobutadiene	µg/kg dw	6.0 U	5.9 U	12 U	6.0 U	12 U	12 U	12 U	12 U	6.0 U	6.0 U	7.1 U	6.6 U	6.0 U	6.0 U	5.9 U	5.8 U
Hexachlorocyclopenta-diene	µg/kg dw	300 UJ	300 UJ	200 UJ	99 UJ	200 UJ	190 UJ	190 UJ	200 UJ	500 U	500 U	590 U	330 U	99 U	100 UJ	98 UJ	97 U
Hexachloroethane	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 UJ	19 U
Isophorone	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 UJ	19 U
Nitrobenzene	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 UJ	19 U
N-Nitrosodimethylamine	µg/kg dw	30 U	30 U	60 UJ	30 UJ	60 UJ	58 UJ	58 UJ	59 U	30 U	30 U	36 U	33 U	30 U	30 U	30 U	29 U
N-Nitroso-di-n-propylamine	µg/kg dw	30 U	30 U	60 U	30 U	60 U	58 U	58 U	59 U	30 UJ	30 UJ	36 UJ	33 U	30 U	30 U	30 U	29 U
N-Nitrosodiphenylamine	µg/kg dw	16 U	17 U	17 U	14 U	12 U	20 U	15 U	20 U	97 U	150 U	1,400 U	6.6 U	32 U	30 U	240 U	18 U
Pentachlorophenol	µg/kg dw	30 U	30 U	60 U	30 U	60 U	58 U	58 U	59 U	28 J	74	190	33 U	30 U	30 U	26 J	29 U
Phenol	µg/kg dw	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U	20 U	20 UJ	20 U	19 U
Polychlorinated biphenyls																	
Aroclor-1016	µg/kg dw	190 U	20 U	4.0 U	3.9 U	4.0 U	3.8 UJ	3.8 U	3.9 UJ	7.9 U	35 U	20 U	3.9 U	44 U	40 U	200 U	3.9 U
Aroclor-1221	µg/kg dw	190 U	20 U	4.0 U	3.9 U	4.0 U	3.8 UJ	3.8 U	3.9 UJ	7.9 U	35 U	20 U	3.9 U	44 U	40 U	200 U	3.9 U
Aroclor-1232	µg/kg dw	190 U	20 U	4.0 U	3.9 U	4.0 U	3.8 UJ	3.8 U	3.9 UJ	7.9 U	35 U	20 U	3.9 U	44 U	40 U	200 U	3.9 U
Aroclor-1242	µg/kg dw	190 U	37 U	4.0 U	3.9 U	4.0 U	3.8 UJ	3.8 U	3.9 UJ	7.9 U	35 U	20 U	3.9 U	44 U	40 U	200 U	3.9 U
Aroclor-1248	µg/kg dw	190 U	88 U	18	21 U	4.0 U	3.8 UJ	3.8 U	3.9 UJ	73	230	120	3.9 U	130	230	1,300	4.4 U
Aroclor-1254	µg/kg dw	170 J	110 U	32	30	4.0 U	3.8 UJ	3.8 U	3.9 UJ	160	380	210	3.9 U	200	310	1,400	14
Aroclor-1260	µg/kg dw	200 J	150 J	25	31 U	4.0 U	3.8 UJ	3.8 U	3.9 UJ	220	340 J	220	3.9 U	120	170	740	3.9 U
Total PCBs	µg/kg dw	370 J	150 J	75	30	4.0 U	3.8 UJ	3.8 U	3.9 UJ	450	950 J	550	3.9 U	450	710	3,400	14
Pesticides																	

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC35		LDW-SC36						LDW-SC37				LDW-SC38a			LDW-SC38b
ANALYTE	UNIT	LDW-SC35-0-2	LDW-SC35-2-4	LDW-SC36-0-1	LDW-SC202-0-1 (replicate of LDW-SC36 R1)	LDW-SC36-1-2	LDW-SC202-1-2 (replicate of LDW-SC36 R1)	LDW-SC36-2-4	LDW-SC202-2-4 (replicate of LDW-SC36 R1)	LDW-SC37-0-1	LDW-SC37-1-2	LDW-SC37-2-4	LDW-SC37-5.3-6.9	LDW-SC38-0-1	LDW-SC38-1-2	LDW-SC38-2-3	LDW-SC38-3-3.3
2,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total DDTs	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
beta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
delta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
beta-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor epoxide	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Mirex	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
cis-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Oxychlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC35		LDW-SC36						LDW-SC37				LDW-SC38a			LDW-SC38b
ANALYTE	UNIT	LDW-SC35-0-2	LDW-SC35-2-4	LDW-SC36-0-1	LDW-SC202-0-1 (replicate of LDW-SC36 R1)	LDW-SC36-1-2	LDW-SC202-1-2 (replicate of LDW-SC36 R1)	LDW-SC36-2-4	LDW-SC202-2-4 (replicate of LDW-SC36 R1)	LDW-SC37-0-1	LDW-SC37-1-2	LDW-SC37-2-4	LDW-SC37-5.3-6.9	LDW-SC38-0-1	LDW-SC38-1-2	LDW-SC38-2-3	LDW-SC38-3-3.3
Toxaphene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
trans-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Grain size																	
Fractional % phi >-1 (>2000 µm)	% dw	1.4	0.4	0.1		4.2	0.1		0.1	0.7	0.6	*9.2*	na	0.5	0.1	0.6	0.7
Fractional % phi -1-0 (1000-2000 µm)	% dw	0.9	0.9	0.4	0.1	0.9	0.3	0.1	0.3	1.0	1.0	*7.9*	na	0.3	0.4	1.2	0.6
Fractional % phi 0-1 (500-1000 µm)	% dw	1.7	3.3	1.0	0.8	2.2	0.8	0.6	1.7	2.0	3.8	*14.5*	na	1.2	2.7	3.1	4.2
Fractional % phi 1-2 (250-500 µm)	% dw	3.8	7.9	1.5	1.1	0.1 U	1.0	1.5	2.8	6.8	30.1	*21.5*	na	4.9	7.7	10.2	39.2
Fractional % phi 2-3 (125-250 µm)	% dw	5.0	7.8	2.2	2.7	7.3	1.7	18.0	13.7	1.2	21.6	*13.0*	na	8.7	8.8	10.9	36.0
Fractional % phi 3-4 (62.5-125 µm)	% dw	13.6	12.5	10.8	17.3	8.6	11.9	30.9	27.9	10.4	6.0	*7.5*	na	17.3	19.0	13.9	9.6
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	11.8	12.1	16.5	21.7	16.2	18.9	15.9	18.4	7.2	3.2	*4.1*	na	18.2	16.5	14.2	4.5
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	19.1	15.3	21.6	16.6	20.4	22.1	11.7	12.2	15.1	7.7	*8.5*	na	16.3	16.1	14.6	1.7
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	15.1	16.6	17.6	16.3	14.6	19.0	8.5	8.8	18.6	8.2	*2.7*	na	11.2	10	11.0	1.0
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	12.4	7.9	10.4	8.2	9.0	8.8	4.7	5.2	14.1	6.5	*4.7*	na	7.4	6.3	7.4	0.9
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	3.2	4.6	5.8	2.8	5.4	4.7	2.6	2.9	7.1	3.7	*2.5*	na	4.1	3.9	3.8	0.5
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	3.7	3.2	3.7	4.9	3.5	3.2	1.5	1.7	5.1	2.7	*1.5*	na	3.6	2.6	2.9	0.5
Fractional % phi 10+ (<0.98 µm)	% dw	8.4	7.7	8.2	7.3	7.7	7.5	4.0	4.2	10.5	4.9	*2.6*	na	6.4	5.9	6.2	0.7
Rocks (total calc'd)	% dw	1.4	0.4	0.1		4.2	0.1		0.1	0.7	0.6	*9.2*	na	0.5	0.1	0.6	0.7
Sand (total calc'd)	% dw	25.0	32.4	15.9	22.0	19.0	15.7	51.1	46.4	21.4	62.5	*64.4*	na	32.4	38.6	39.3	89.6
Silt (total calc'd)	% dw	58.4	51.9	66.1	62.8	60.2	68.8	40.8	44.6	55.0	25.6	*20.0*	na	53.1	49	47.2	8.1
Clay (total calc'd)	% dw	15.3	15.5	17.7	15.0	16.6	15.4	8.1	8.8	22.7	11.3	*6.6*	na	14.1	12.4	12.9	1.7

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC35		LDW-SC36						LDW-SC37				LDW-SC38a			LDW-SC38b
ANALYTE	UNIT	LDW-SC35-0-2	LDW-SC35-2-4	LDW-SC36-0-1	LDW-SC202-0-1 (replicate of LDW-SC36 R1)	LDW-SC36-1-2	LDW-SC202-1-2 (replicate of LDW-SC36 R1)	LDW-SC36-2-4	LDW-SC202-2-4 (replicate of LDW-SC36 R1)	LDW-SC37-0-1	LDW-SC37-1-2	LDW-SC37-2-4	LDW-SC37-5.3-6.9	LDW-SC38-0-1	LDW-SC38-1-2	LDW-SC38-2-3	LDW-SC38-3-3.3
Fines (percent silt+clay)	% dw	73.7	67.4	83.8	77.8	76.8	84.2	48.9	53.4	77.7	36.9	*26.6*	na	67.2	61	60.1	9.8
Conventional parameters																	
Total organic carbon (TOC)	% dw	1.86	1.91	1.42	1.27	1.46	1.75	1.32	1.24	2.25	*2.67*	2.24	0.543	1.95	1.37	1.50	1.30
Total solids	% ww	52.60	57.70	61.30	56.70	64.40	61.30	66.30	68.30	49.90	*59.13*	68.80	79.20	46.70	54.90	69.60	69.10
Geotechnical																	
Bulk density (dry)	pcf	45.0	58.1	na	na	na	na	75.1	83.7	52.5	na	60.6	na	74.3	na	na	na
Bulk density (wet)	pcf	82.1	101.6	na	na	na	na	107.7	111.0	98.2	na	99.8	na	111.1	na	na	na
Moisture	% dw	82.30	75.00	na	na	na	na	43.39	32.64	87.18	na	64.76	na	49.59	na	na	na
Specific gravity	g/cc	2.65	2.64	na	na	na	na	2.60	2.63	2.68	na	2.66	na	2.67	na	na	na
Atterberg limits classification	none	OH	OH	na	na	na	na	OL	OL	OH	na	OH	na	ML	na	na	na
Liquid limit	% dw	61.6	68.5	na	na	na	na	44.2	38.2	77.3	na	51.0	na	41.1	na	na	na
Plastic limit	% dw	35.0	35.7	na	na	na	na	27.4	25.6	37.1	na	29.5	na	28.4	na	na	na
Plasticity index	% dw	26.6	32.8	na	na	na	na	16.8	12.6	40.2	na	21.5	na	12.7	na	na	na
Porosity	S.U.	0.73	0.65	na	na	na	na	0.54	0.49	0.69	na	0.64	na	0.55	na	na	na

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1k. 1- and 2-ft intervals, samples SC39 through SC42

1- AND 2-FT INTERVALS		LDW-SC39				LDW-SC40			LDW-SC41					LDW-SC42		
ANALYTE	UNIT	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC39-4-6	LDW-SC40-0-1.3	LDW-SC40-1.3-2	LDW-SC40-2-4	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4	LDW-SC41-4-6	LDW-SC41-6-7.9	LDW-SC42-0-1	LDW-SC42-1-2	LDW-SC42-2-4
Metals and trace elements																
Antimony	mg/kg dw	6 UJ	6 UJ	7 UJ	na	7 UJ	6 UJ	*6 UJ*	*10 UJ*	9 UJ	9 UJ	na	na	9 UJ	9 UJ	*9 UJ*
Arsenic	mg/kg dw	9	7	14	na	7	6 U	*6 U*	*20*	16	16	na	na	10	13	*13*
Cadmium	mg/kg dw	0.3 U	0.2 U	0.6	na	0.3 U	0.2 U	*0.2 U*	*0.4 U*	0.4	1.3	na	na	0.4 U	0.3 U	*0.4*
Chromium	mg/kg dw	17.6	16.1	27.4	na	14.4	17.0	*11.9*	*34*	33.0	32.2	na	na	26.4	24.7	*32.7*
Cobalt	mg/kg dw	5.5	6.0	7.2	na	4.3	4.6	*3.7*	*9.2*	10	10	na	na	9.3	7.7	*10.9*
Copper	mg/kg dw	26.9	29.2	34.7	na	20.9	13.8	*8.3*	*72.4*	68.8	61.9	na	na	41.2	52.9	*49.5*
Lead	mg/kg dw	23	35	48	na	18	44	*2 U*	*42*	31	35	na	na	20 J	38 J	*33 J*
Mercury	mg/kg dw	0.22	0.06	0.24	na	0.05	0.05 U	*0.05 U*	*0.20*	0.16	0.17	na	na	0.17	0.19	*0.15*
Molybdenum	mg/kg dw	0.6 U	0.6 U	0.7 U	na	1.0	0.9	*0.6 U*	*1*	0.9 U	0.9 U	na	na	0.9 U	0.9	*0.9 U*
Nickel	mg/kg dw	15	15	17	na	10	15	*8*	*24*	26	25	na	na	23	19	*26*
Selenium	mg/kg dw	6 U	6 U	7 U	na	7 U	6 U	*6 U*	*10 U*	9 U	9 U	na	na	9 U	9 U	*9 U*
Silver	mg/kg dw	0.4 U	0.4 U	0.4 U	na	0.4 U	0.4 U	*0.4 U*	*0.6 U*	0.6 U	0.5 U	na	na	0.6 U	0.5 U	*0.6 U*
Thallium	mg/kg dw	6 U	6 U	7 U	na	7 U	6 U	*6 U*	*10 U*	9 U	9 U	na	na	9 U	9 U	*9 U*
Vanadium	mg/kg dw	45.1	51.4	58.8	na	45.5	45.5	*43.3*	*70.2*	73.1	73.1	na	na	62.2	58.6	*74.6*
Zinc	mg/kg dw	76.5	58.7	77.7	na	47.4	27.4	*24.5*	*160*	141	131	na	na	77	105	*95*
Organometals																
Monobutyltin as ion	µg/kg dw	4.0 U	3.8 U	4.0 U	na	na	na	na	na	na	na	na	na	na	na	na
Dibutyltin as ion	µg/kg dw	6.4	5.4 U	5.6 U	na	na	na	na	na	na	na	na	na	na	na	na
Tributyltin as ion	µg/kg dw	13	3.6 U	3.8 U	na	na	na	na	na	na	na	na	na	na	na	na
PAHs																
1-Methylnaphthalene	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
2-Chloronaphthalene	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
2-Methylnaphthalene	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
Acenaphthene	µg/kg dw	59 U	60 U	21 J	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	190
Acenaphthylene	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC39				LDW-SC40			LDW-SC41					LDW-SC42		
ANALYTE	UNIT	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC39-4-6	LDW-SC40-0-1.3	LDW-SC40-1.3-2	LDW-SC40-2-4	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4	LDW-SC41-4-6	LDW-SC41-6-7.9	LDW-SC42-0-1	LDW-SC42-1-2	LDW-SC42-2-4
Anthracene	µg/kg dw	58 J	60 U	39 U	na	32	20 U	20 U	54 J	14 J	45 J	79	na	40 U	96	320
Benzo(a)anthracene	µg/kg dw	210	42 J	37 J	na	54	20 U	20 U	200	40 J	130	260	na	87	240	360
Benzo(a)pyrene	µg/kg dw	160	46 J	36 J	na	30	20 U	20 U	180	51 J	180	310	na	100	390	300
Benzo(b)fluoranthene	µg/kg dw	270	48 J	55	na	41	20 U	20 U	360	92 J	320	430	na	140	660	430
Benzo(g,h,i)perylene	µg/kg dw	43 J	60 U	39 U	na	18 J	20 U	20 U	70	20 J	62	140	na	42	80	54
Benzo(k)fluoranthene	µg/kg dw	290	54 J	48	na	44	20 U	20 U	240	74 J	280	340	na	150	480	420
Total benzofluoranthenes	µg/kg dw	560	102 J	103	na	85	20 U	20 U	600	166 J	600	770	na	290	1,140	850
Chrysene	µg/kg dw	430	46 J	44	na	85	20 U	20 U	320	75 J	230	390	na	130	420	470
Dibenzo(a,h)anthracene	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	42 J	20 UJ	30 J	96	na	40 U	40 U	40 U
Dibenzofuran	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	56
Fluoranthene	µg/kg dw	1,600	110	100	na	320	20 U	20 U	250	42 J	130	610	na	250	530	1,400
Fluorene	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	120
Indeno(1,2,3-cd)pyrene	µg/kg dw	56 J	60 UJ	39 UJ	na	20	20 U	20 U	77	21 J	73	120	na	40 U	87	64
Naphthalene	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	55 J	65 U	na	40 U	40 U	40 U
Phenanthrene	µg/kg dw	140	72	34 J	na	130	20 U	20 U	120	28 J	90	200	na	79	170	340
Pyrene	µg/kg dw	800	120	110	na	240	20 U	20 U	480 J	150 J	510 J	1,800	na	240	950	830 J
Total HPAH	µg/kg dw	3,900 J	470 J	430 J	na	850 J	20 U	20 U	2,220 J	570 J	1,950 J	4,500	na	1,140	3,840	4,300 J
Total LPAH	µg/kg dw	200 J	72	55 J	na	160	20 U	20 U	170 J	42 J	190 J	280	na	79	270	970
Carcinogenic PAHs	µg/kg dw	260 J	76 J	60 J	na	51	18 U	18 U	290 J	78 J	270 J	470	na	150	550	440
Total PAH	µg/kg dw	4,100 J	540 J	490 J	na	1,010 J	20 U	20 U	2,390 J	610 J	2,140 J	4,800	na	1,220	4,100	5,300 J
Phthalates																
Bis(2-ethylhexyl)phthalate	µg/kg dw	45 J	60 U	39 U	na	48	20 U	20 U	480	69 J	240	430	na	180 U	400 U	210 U
Butyl benzyl phthalate	µg/kg dw	11	6.0 U	12 U	na	10	5.9 U	6.0 U	55	15	18	32	na	20 U	36 U	22 U
Diethyl phthalate	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
Dimethyl phthalate	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	16 J	49 J	20	na	40 U	40 U	40 U
Di-n-butyl phthalate	µg/kg dw	59 U	60 U	39 U	na	26 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
Di-n-octyl phthalate	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
Other SVOCs																

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC39				LDW-SC40			LDW-SC41					LDW-SC42		
ANALYTE	UNIT	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC39-4-6	LDW-SC40-0-1.3	LDW-SC40-1.3-2	LDW-SC40-2-4	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4	LDW-SC41-4-6	LDW-SC41-6-7.9	LDW-SC42-0-1	LDW-SC42-1-2	LDW-SC42-2-4
1,2,4-Trichlorobenzene	µg/kg dw	5.9 UJ	6.0 UJ	12 UJ	na	6.0 UJ	5.9 UJ	6.0 UJ	5.9 U	5.9 U	5.9 U	6.5 U	na	12 U	12 U	12 U
1,2-Dichlorobenzene	µg/kg dw	5.9 U	6.0 U	12 U	na	6.0 U	5.9 U	6.0 U	5.9 U	5.9 U	5.9 U	6.5 U	na	12 U	12 U	12 U
1,3-Dichlorobenzene	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	6.5 U	na	40 U	40 U	40 U
1,4-Dichlorobenzene	µg/kg dw	5.9 U	6.0 U	12 U	na	6.0 U	5.9 U	6.0 U	5.9 U	5.9 U	5.9 U	3.9 J	na	12 U	12 U	12 U
2,4,5-Trichlorophenol	µg/kg dw	290 U	300 U	200 U	na	100 U	99 U	100 UJ	300 U	99 UJ	300 U	320 U	na	200 U	200 U	200 U
2,4,6-Trichlorophenol	µg/kg dw	290 U	300 U	200 U	na	100 U	99 U	100 UJ	300 U	99 UJ	300 U	320 U	na	200 U	200 U	200 U
2,4-Dichlorophenol	µg/kg dw	290 U	300 U	200 U	na	100 U	99 U	100 UJ	300 U	99 UJ	300 U	320 U	na	200 U	200 U	200 U
2,4-Dimethylphenol	µg/kg dw	5.9 U	6.0 U	12 U	na	6.0 UJ	5.9 UJ	6.0 UJ	5.9 U	5.9 U	5.9 U	6.5 UJ	na	12 U	12 U	12 U
2,4-Dinitrophenol	µg/kg dw	590 UJ	600 UJ	390 UJ	na	200 UJ	200 UJ	200 UJ	590 UJ	200 UJ	590 UJ	650 U	na	400 UJ	400 UJ	400 UJ
2,4-Dinitrotoluene	µg/kg dw	290 U	300 U	200 U	na	100 U	99 U	100 U	300 U	99 UJ	300 U	320 U	na	200 U	200 U	200 U
2,6-Dinitrotoluene	µg/kg dw	290 U	300 U	200 U	na	100 U	99 U	100 U	300 U	99 UJ	300 U	320 U	na	200 U	200 U	200 U
2-Chlorophenol	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 UJ	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
2-Methylphenol	µg/kg dw	5.9 U	6.0 U	12 U	na	6.0 U	5.9 U	6.0 U	3.5 J	5.9 U	5.9 U	6.5 U	na	12 U	12 U	12 U
2-Nitroaniline	µg/kg dw	290 U	300 U	200 U	na	100 U	99 U	100 U	300 U	99 UJ	300 U	320 U	na	200 U	200 U	200 U
2-Nitrophenol	µg/kg dw	290 U	300 U	200 U	na	100 U	99 U	100 UJ	300 U	99 UJ	300 U	320 U	na	200 U	200 U	200 U
3,3'-Dichlorobenzidine	µg/kg dw	290 UJ	300 UJ	200 UJ	na	100 UJ	99 UJ	100 UJ	300 UJ	99 UJ	300 UJ	320 U	na	200 UJ	200 UJ	200 UJ
3-Nitroaniline	µg/kg dw	290 UJ	300 UJ	200 UJ	na	100 U	99 U	100 U	300 UJ	99 UJ	300 UJ	320 U	na	200 U	200 U	200 U
4,6-Dinitro-o-cresol	µg/kg dw	590 UJ	600 UJ	390 UJ	na	200 UJ	200 UJ	200 UJ	590 UJ	200 UJ	590 UJ	650 U	na	400 U	400 U	400 U
4-Bromophenyl phenyl ether	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
4-Chloro-3-methylphenol	µg/kg dw	290 U	300 U	200 U	na	100 U	99 U	100 UJ	300 U	99 UJ	300 U	320 U	na	200 U	200 U	200 U
4-Chloroaniline	µg/kg dw	290 UJ	300 UJ	200 UJ	na	100 UJ	99 UJ	100 UJ	300 UJ	99 UJ	300 UJ	320 U	na	200 UJ	200 UJ	200 UJ
4-Chlorophenyl phenyl ether	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
4-Methylphenol	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 UJ	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
4-Nitroaniline	µg/kg dw	290 U	300 U	200 U	na	100 U	99 U	100 U	300 UJ	99 UJ	300 UJ	320 U	na	200 U	200 U	200 U
4-Nitrophenol	µg/kg dw	290 UJ	300 UJ	200 UJ	na	100 U	99 U	100 UJ	300 U	99 UJ	300 U	320 U	na	200 UJ	200 UJ	200 UJ
Aniline	µg/kg dw	59 U	60 U	39 U	na	36 UJ	20 UJ	20 UJ	59 UJ	20 UJ	59 UJ	65 U	na	40 UJ	40 UJ	40 UJ
Benzoic acid	µg/kg dw	170 UJ	140 UJ	120 UJ	na	80 UJ	71 UJ	67 UJ	290 J	140 J	130 J	580 U	na	140	150	120 J
Benzyl alcohol	µg/kg dw	29 U	30 U	59 U	na	30 U	30 U	30 U	25 J	36	21 J	32 U	na	60 U	60 U	59 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC39				LDW-SC40			LDW-SC41					LDW-SC42		
ANALYTE	UNIT	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC39-4-6	LDW-SC40-0-1.3	LDW-SC40-1.3-2	LDW-SC40-2-4	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4	LDW-SC41-4-6	LDW-SC41-6-7.9	LDW-SC42-0-1	LDW-SC42-1-2	LDW-SC42-2-4
bis(2-chloroethoxy) methane	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
bis(2-chloroethyl)ether	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
bis(2-chloroisopropyl) ether	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
Hexachlorobenzene	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.0 U	0.99 U	0.98 U	5.9 U	5.9 U	5.9 U	6.5 U	na	12 U	12 U	12 U
Hexachlorobutadiene	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.0 U	0.99 U	0.98 U	5.9 U	5.9 U	5.9 U	6.5 U	na	12 U	12 U	12 U
Hexachlorocyclopenta-diene	µg/kg dw	290 UJ	300 UJ	200 UJ	na	100 U	99 U	100 U	300 U	99 UJ	300 U	320 U	na	200 U	200 U	200 U
Hexachloroethane	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
Isophorone	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
Nitrobenzene	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 U	59 U	20 UJ	59 U	65 U	na	40 U	40 U	40 U
N-Nitrosodimethylamine	µg/kg dw	29 U	30 U	59 U	na	30 U	30 U	30 U	30 U	30 U	30 U	32 U	na	60 U	60 U	59 U
N-Nitroso-di-n-propylamine	µg/kg dw	29 U	30 U	59 U	na	30 U	30 U	30 U	30 U	30 U	30 U	32 U	na	60 U	60 U	59 U
N-Nitrosodiphenylamine	µg/kg dw	13 U	14 U	34 U	na	11 U	5.9 U	6.0 U	28 UJ	21 UJ	23 UJ	37 U	na	16 U	20 U	26 U
Pentachlorophenol	µg/kg dw	29 U	30 U	59 U	na	30 U	30 U	30 U	23 J	17 J	18 J	40	na	60 U	60 U	59 UJ
Phenol	µg/kg dw	59 U	60 U	39 U	na	20 U	20 U	20 UJ	180	28 J	59 U	65 U	na	150	40 U	40 U
Polychlorinated biphenyls																
Aroclor-1016	µg/kg dw	27 U	40 U	20 UJ	7.9 UJ	20 U	4.0 UJ	3.9 UJ	86 U	20 U	20 U	40 U	8.0 U	7.9 U	20 U	4.0 UJ
Aroclor-1221	µg/kg dw	27 U	40 U	20 UJ	7.9 UJ	20 U	4.0 UJ	3.9 UJ	86 U	20 U	20 U	16 U	8.0 U	7.9 U	20 U	4.0 UJ
Aroclor-1232	µg/kg dw	27 U	40 U	20 UJ	7.9 UJ	20 U	4.0 UJ	3.9 UJ	86 U	20 U	20 U	40 U	8.0 U	7.9 U	20 U	4.0 UJ
Aroclor-1242	µg/kg dw	27 U	40 U	20 U	7.9 UJ	20 U	4.0 U	3.9 UJ	86 U	20 U	20 U	98	8.0 U	12	21 J	13 J
Aroclor-1248	µg/kg dw	31	74	42	7.9 UJ	61	4.0 U	3.9 UJ	100 J	65	58	79 U	39	7.9 U	20 U	4.0 UJ
Aroclor-1254	µg/kg dw	86	190	90	40 UJ	100 J	4.0 U	3.9 UJ	150 J	97	99	190	73	41	70	44
Aroclor-1260	µg/kg dw	91	180	88	150	40 U	4.0 U	3.9 UJ	120 J	94	110	220	78	54	72 J	31
Total PCBs	µg/kg dw	208	440	220	150	160 J	4.0 UJ	3.9 UJ	370 J	256	270	510	190	107	163 J	88 J
Pesticides																
2,4'-DDD	µg/kg dw	2.7 U	2.0 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
2,4'-DDE	µg/kg dw	2.7 U	7.4 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
2,4'-DDT	µg/kg dw	2.7 U	2.0 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC39				LDW-SC40			LDW-SC41					LDW-SC42		
ANALYTE	UNIT	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC39-4-6	LDW-SC40-0-1.3	LDW-SC40-1.3-2	LDW-SC40-2-4	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4	LDW-SC41-4-6	LDW-SC41-6-7.9	LDW-SC42-0-1	LDW-SC42-1-2	LDW-SC42-2-4
4,4'-DDD	µg/kg dw	2.7 U	26 U	5.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg dw	2.7 U	10 U	6.9 U	na	4.7 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg dw	8.9 U	22 U	13 U	na	7.2 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Total DDTs	µg/kg dw	8.9 U	26 U	13 U	na	7.2 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.0 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	2.7 U	5.3 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	2.7 U	5.3 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
alpha-BHC	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.0 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na
beta-BHC	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.0 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.0 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na
delta-BHC	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.0 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na
alpha-Chlordane	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.0 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na
gamma-Chlordane	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.0 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na
alpha-Endosulfan	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.0 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na
beta-Endosulfan	µg/kg dw	2.7 U	5.2 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg dw	2.7 U	8.6 U	3.4 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Endrin	µg/kg dw	2.7 U	7.6 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg dw	2.7 U	2.0 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg dw	2.7 U	2.0 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	1.4 U	0.98 U	0.98 U	na	1.8 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na
Heptachlor epoxide	µg/kg dw	4.3 U	7.6 U	4.6 U	na	1.0 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg dw	14 U	9.8 U	9.8 U	na	10 U	9.9 U	9.8 U	na	na	na	na	na	na	na	na
Mirex	µg/kg dw	2.7 U	2.0 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
cis-Nonachlor	µg/kg dw	2.7 U	2.0 U	2.0 U	na	3.3 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Oxychlordane	µg/kg dw	2.7 U	2.0 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Toxaphene	µg/kg dw	140 U	98 U	98 U	na	100 U	99 U	98 U	na	na	na	na	na	na	na	na
trans-Nonachlor	µg/kg dw	2.7 U	2.0 U	2.0 U	na	2.0 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	2.7 U	2.0 U	2.0 U	na	3.3 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC39				LDW-SC40			LDW-SC41					LDW-SC42		
ANALYTE	UNIT	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC39-4-6	LDW-SC40-0-1.3	LDW-SC40-1.3-2	LDW-SC40-2-4	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4	LDW-SC41-4-6	LDW-SC41-6-7.9	LDW-SC42-0-1	LDW-SC42-1-2	LDW-SC42-2-4
Grain size																
Fractional % phi >-1 (>2000 µm)	% dw	20.9	31.7	23.5	na	0.1	5.0	*0.1*	0.2	na	na	na	na	0.4	0.1	na
Fractional % phi -1-0 (1000-2000 µm)	% dw	5.2	3.8	1.7	na	0.4	0.7	*0.1*	1.9	0.1	0.2	na	na	0.5	0.2	*0.7*
Fractional % phi 0-1 (500-1000 µm)	% dw	14.9	15.1	6.9	na	8.2	26.4	*23.2*	3.5	1.4	1.3	na	na	0.9	1.2	*0.9*
Fractional % phi 1-2 (250-500 µm)	% dw	23.2	24.0	14.1	na	35.7	58.0	*68.7*	3.9	1.5	1.4	na	na	3.4	3.7	*1.5*
Fractional % phi 2-3 (125-250 µm)	% dw	12.1	11.1	7.1	na	20.9	7.0	*6.9*	8.4	1.4	1.9	na	na	4.6	5.3	*3.5*
Fractional % phi 3-4 (62.5-125 µm)	% dw	11.6	7.4	8.3	na	19.4	1.0	*0.3*	3.4	7.5	3.0	na	na	15.6	14.5	*13.3*
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	2.5	3.2	3.7	na	7.6	0.8	*0.2*	17.0	3.8	18.6	na	na	15.3	14.9	*15.4*
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	2.7	0.9	10.6	na	2.1	0.1	*0.1*	20.6	30.8	17.9	na	na	21.1	18.9	*23.2*
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	2.2	0.9	8.1	na	1.3	0.1	*0.1*	16.2	22.8	26.6	na	na	18.4	21.2	*22.4*
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	1.4	0.6	5.1	na	1.1	0.1	*0.1*	9.1	11.7	10.2	na	na	7.1	6.9	*6.5*
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	1.1	0.4	2.9	na	1.0	0.1	*0.1*	5.0	5.9	5.3	na	na	3.5	2.9	*3.4*
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	0.6	0.2	1.8	na	0.7	0.1 U	*0.1*	3.2	3.9	4.3	na	na	2.7	2.8	*2.6*
Fractional % phi 10+ (<0.98 µm)	% dw	1.5	0.7	6.2	na	1.5	0.6	*0.5*	7.5	9.2	9.1	na	na	6.5	7.3	*6.7*
Rocks (total calc'd)	% dw	20.9	31.7	23.5	na	0.1	5.0	*0.1*	0.2	na	na	na	na	0.4	0.1	na
Sand (total calc'd)	% dw	67.0	61.4	38.1	na	84.6	93.1	*99.2*	21.1	11.9	7.8	na	na	25.0	24.9	*19.9*
Silt (total calc'd)	% dw	8.8	5.6	27.5	na	12.1	1.1	*0.5*	62.9	69.1	73.3	na	na	61.9	61.9	*67.5*
Clay (total calc'd)	% dw	3.2	1.3	10.9	na	3.2	0.7	*0.7*	15.7	19.0	18.7	na	na	12.7	13.0	*12.7*
Fines (percent silt+clay)	% dw	12.0	6.9	38.4	na	15.3	1.8	*1.2*	78.6	88.1	92.0	na	na	74.6	74.9	*80.2*
Conventional parameters																
Total organic carbon (TOC)	% dw	*1.02*	0.633	1.56	2.50	0.747	0.328	*0.211*	*2.39*	2.26	2.65	1.89	1.38	1.77	2.14	*2.17*
Total solids	% ww	*69.95*	82.60	67.60	57.90	73.20	80.60	*81.95*	*47.18*	50.10	49.10	51.20	59.70	48.70	53.30	*51.35*

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC39				LDW-SC40			LDW-SC41					LDW-SC42		
ANALYTE	UNIT	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC39-4-6	LDW-SC40-0-1.3	LDW-SC40-1.3-2	LDW-SC40-2-4	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4	LDW-SC41-4-6	LDW-SC41-6-7.9	LDW-SC42-0-1	LDW-SC42-1-2	LDW-SC42-2-4
Geotechnical																
Bulk density (dry)	pcf	na	100.8	70.3	na	na	92.4	90.7	na	44.2	51.2	na	na	40.7	na	52.8
Bulk density (wet)	pcf	na	129.5	109.5	na	na	120.4	113.3	na	85.7	95.6	na	na	90.3	na	98.9
Moisture	% dw	na	28.44	55.71	na	na	30.31	24.90	na	93.72	86.67	na	na	121.6	na	87.24
Specific gravity	g/cc	na	2.70	2.63	na	na	2.70	2.71	na	2.53	2.69	na	na	2.59	na	2.63
Atterberg limits classification	none	na	non-plastic	OH	na	na	non-plastic	non-plastic	na	OH	OH	na	na	OH	na	OH
Liquid limit	% dw	na	na	59.0	na	na	na	na	na	61.6	62.9	na	na	69.1	na	51.1
Plastic limit	% dw	na	na	39.7	na	na	na	na	na	33.7	33.7	na	na	52.6	na	39.0
Plasticity index	% dw	na	na	19.3	na	na	na	na	na	27.9	29.2	na	na	16.5	na	12.1
Porosity	S.U.	na	0.40	0.57	na	na	0.45	0.46	na	0.72	0.69	na	na	0.75	na	0.68

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1l. 1- and 2-ft intervals, samples SC43 through SC47

1- AND 2-FT INTERVALS		LDW-SC43		LDW-SC44			LDW-SC45				LDW-SC46				LDW-SC47			
ANALYTE	UNIT	LDW-SC43-0-2	LDW-SC43-2-4	LDW-SC44-0-2	LDW-SC44-2-3.2	LDW-SC44-3.2-4	LDW-SC45-0-1	LDW-SC45-1-2	LDW-SC45-2-4	LDW-SC45-5-6	LDW-SC46-0-1	LDW-SC46-1-2	LDW-SC46-2-4	LDW-SC46-4-6.8	LDW-SC47-0-1	LDW-SC47-1-2	LDW-SC47-2-3	LDW-SC47-3-4
Metals and trace elements																		
Antimony	mg/kg dw	*7 UJ*	6 UJ	8 UJ	8 UJ	6 UJ	*9 UJ*	9 UJ	8 UJ	na	8 UJ	8 UJ	9 UJ	na	6 UJ	8 UJ	7 UJ	6 UJ
Arsenic	mg/kg dw	*7 U*	6 U	16	19	9	*15*	13	25	na	16	13	18	na	6 U	12	8	6 U
Cadmium	mg/kg dw	*0.3 U*	0.2 U	0.8	1.4	0.2 U	*0.4 U*	0.3 U	0.5	na	0.3 U	0.3 U	0.3 U	na	0.3 U	0.8	0.3	0.2 U
Chromium	mg/kg dw	*15.9*	11.4	47.9	51.0	15.4	*27.9*	27.0	26.5	na	33.3	27.3	41.5	na	13.6	34.5	21.7	10
Cobalt	mg/kg dw	*5.3*	4.3	8.6	7.4	4.7	*8.5*	8.6	8.7	na	7.9	8.1	10.1	na	4.3	8.2	6.7	3.5
Copper	mg/kg dw	*21.5*	13.4	48.4	45.3	17.7	*50.0*	42.9	76.5	na	54.9	46.6	81.9	na	19.1	45.2	28.1	12.4
Lead	mg/kg dw	*4*	2 U	33	74	9	*25*	21	52	na	29	24	31	na	14	46	22	7
Mercury	mg/kg dw	*0.06 U*	0.05 U	0.36	0.23	0.07	*0.13*	0.14	0.17	na	0.13	0.12	0.15	na	0.05 U	0.17	0.18	0.05 U
Molybdenum	mg/kg dw	*0.7 U*	0.6 U	0.8	1.8	0.8	*0.9 U*	0.9 U	1.6	na	1.1	1.2	1.3	na	0.6 U	2.9	1.8	0.6 U
Nickel	mg/kg dw	*11*	7	20	19	10	*19*	20	18	na	21	22	31	na	9	19	15	7
Selenium	mg/kg dw	*7 U*	6 U	8 U	8 U	6 U	*9 U*	9 U	8 U	na	8 U	8 U	9 U	na	6 U	8 U	7 U	6 U
Silver	mg/kg dw	*0.4 U*	0.4 U	0.6	0.5 U	0.4 U	*0.6 U*	0.5 U	0.5 U	na	0.5 U	0.5 U	0.5 U	na	0.4 U	0.5	0.4 U	0.3 U
Thallium	mg/kg dw	*7 U*	6 U	8 U	8 U	6 U	*9 U*	9 U	8 U	na	8 U	8 U	9 U	na	6 U	8 U	7 U	6 U
Vanadium	mg/kg dw	*50.2*	43.6	67.0	65.1	46.9	*65.4*	63.7	62.1	na	61.1	61.1	67.8	na	41.8	62.5	49.2	39.1
Zinc	mg/kg dw	*33.0*	22.6	119	123	36.9	*98*	83	152	na	118	108	132	na	42.3	117	54.6	23.0
Organometals																		
Monobutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Tributyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PAHs																		
1-Methylnaphthalene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
2-Chloronaphthalene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
2-Methylnaphthalene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
Acenaphthene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	55 J	na	96	63 J	60	na	59 U	59 U	99 U	20 U
Acenaphthylene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	35 J	64 J	58 J	na	59 U	59 U	99 U	20 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC43		LDW-SC44			LDW-SC45				LDW-SC46				LDW-SC47			
ANALYTE	UNIT	LDW-SC43-0-2	LDW-SC43-2-4	LDW-SC44-0-2	LDW-SC44-2-3.2	LDW-SC44-3.2-4	LDW-SC45-0-1	LDW-SC45-1-2	LDW-SC45-2-4	LDW-SC45-5-6	LDW-SC46-0-1	LDW-SC46-1-2	LDW-SC46-2-4	LDW-SC46-4-6.8	LDW-SC47-0-1	LDW-SC47-1-2	LDW-SC47-2-3	LDW-SC47-3-4
Anthracene	µg/kg dw	20 U	19 U	60 U	35 J	20 U	31 J	60 U	180	na	360	350	320	na	59 U	59 U	99 U	20 U
Benzo(a)anthracene	µg/kg dw	14 J	19 U	63	91	20 U	160	92	770	na	940	1,200	1,200	na	59 U	36 J	99 U	20 U
Benzo(a)pyrene	µg/kg dw	20 U	19 U	59 J	72	20 U	160	110	700	na	570	780	730	na	59 U	44 J	99 U	20 UJ
Benzo(b)fluoranthene	µg/kg dw	19 J	19 U	110	130	20 U	280	180	1,000	na	750	1,100	970	na	79	67	99 U	20 UJ
Benzo(g,h,i)perylene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	45 J	35 J	140	na	98	120	210	na	59 U	59 U	99 U	20 UJ
Benzo(k)fluoranthene	µg/kg dw	15 J	19 U	82	92	20 U	200	200	980	na	640	970	880	na	53 J	47 J	99 U	20 UJ
Total benzofluoranthenes	µg/kg dw	34 J	19 U	190	220	20 U	480	380	2,000	na	1,390	2,100	1,850	na	132 J	114 J	99 U	20 UJ
Chrysene	µg/kg dw	14 J	19 U	74	110	20 U	200	120	920	na	1,100	1,500	1,500	na	50 J	43 J	99 U	20 U
Dibenzo(a,h)anthracene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	43 J	na	32 J	99 U	71	na	59 U	59 U	99 U	20 UJ
Dibenzofuran	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	92	99 U	60 U	na	59 U	59 U	99 U	20 U
Fluoranthene	µg/kg dw	13 J	19 U	84	120	20 U	420	180	1,400	na	3,900	2,900	3,000	na	53 J	88	63 J	20 U
Fluorene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	62	na	150	67 J	64	na	59 U	59 U	99 U	20 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	41 J	41 J	170	na	140	190	300 J	na	59 U	59 U	99 U	20 UJ
Naphthalene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60	370	380	na	59 U	59 U	99 U	20 U
Phenanthrene	µg/kg dw	20 U	19 U	46 J	70	20 U	75	55 J	600	na	1,400	380	360	na	59 U	49 J	99 U	20 U
Pyrene	µg/kg dw	17 J	19 U	220 J	300 J	21 J	400	270	1,500	na	2,300	4,900	4,400	na	61	100	94 J	20 UJ
Total HPAH	µg/kg dw	92 J	19 U	690 J	920 J	21 J	1,910 J	1,230 J	7,600 J	na	10,500 J	13,700	13,300 J	na	296 J	430 J	157 J	20 UJ
Total LPAH	µg/kg dw	20 U	19 U	46 J	105 J	20 U	106 J	55 J	900 J	na	2,100 J	1,290 J	1,240 J	na	59 U	49 J	99 U	20 U
Carcinogenic PAHs	µg/kg dw	20 J	17 U	100 J	120	18 U	240 J	170 J	1,000 J	na	840 J	1,200	1,100 J	na	61 J	74 J	90 U	18 UJ
Total PAH	µg/kg dw	92 J	19 U	740 J	1,020 J	21 J	2,010 J	1,280 J	8,500 J	na	12,600 J	15,000 J	14,500 J	na	296 J	470 J	157 J	20 UJ
Phthalates																		
Bis(2-ethylhexyl)phthalate	µg/kg dw	12 J	19 U	35 J	59 U	20 U	220	120	170	na	250	220	200	na	43 J	180	350	17 J
Butyl benzyl phthalate	µg/kg dw	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U	33 J	24	26	na	34	21	23	na	7.0	28	8.3	5.9 U
Diethyl phthalate	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
Dimethyl phthalate	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
Di-n-butyl phthalate	µg/kg dw	20 U	19 U	60 U	94	80	35 J	60 U	59 U	na	60 U	99 U	60 U	na	59 U	140	52 J	20 U
Di-n-octyl phthalate	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
Other SVOCs																		
1,2,4-Trichlorobenzene	µg/kg dw	5.9 UJ	5.8 UJ	6.0 U	5.9 U	5.9 U	5.9 UJ	6.0 UJ	5.9 UJ	na	6.0 UJ	7.1 J	6.0 UJ	na	5.9 U	5.9 U	5.9 U	5.9 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC43		LDW-SC44			LDW-SC45				LDW-SC46				LDW-SC47			
ANALYTE	UNIT	LDW-SC43-0-2	LDW-SC43-2-4	LDW-SC44-0-2	LDW-SC44-2-3.2	LDW-SC44-3.2-4	LDW-SC45-0-1	LDW-SC45-1-2	LDW-SC45-2-4	LDW-SC45-5-6	LDW-SC46-0-1	LDW-SC46-1-2	LDW-SC46-2-4	LDW-SC46-4-6.8	LDW-SC47-0-1	LDW-SC47-1-2	LDW-SC47-2-3	LDW-SC47-3-4
1,2-Dichlorobenzene	µg/kg dw	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U	5.9 U	6.0 U	5.9 U	na	6.0 U	5.9 U	6.0 U	na	5.9 U	2.9 J	5.9 U	5.9 U
1,3-Dichlorobenzene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
1,4-Dichlorobenzene	µg/kg dw	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U	5.9 U	6.0 U	5.9 U	na	3.0 J	5.3 J	6.0 U	na	5.9 U	5.3 J	3.0 J	5.9 U
2,4,5-Trichlorophenol	µg/kg dw	99 U	97 U	300 U	290 U	98 U	300 U	300 U	300 U	na	300 U	490 U	300 U	na	290 U	290 U	500 U	99 U
2,4,6-Trichlorophenol	µg/kg dw	99 U	97 U	300 U	290 U	98 U	300 U	300 U	300 U	na	300 U	490 U	300 U	na	290 U	290 U	500 U	99 U
2,4-Dichlorophenol	µg/kg dw	99 U	97 U	300 U	290 U	98 U	300 U	300 U	300 U	na	300 U	490 U	300 U	na	290 U	290 U	500 U	99 U
2,4-Dimethylphenol	µg/kg dw	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U	5.9 U	6.0 U	5.9 UJ	na	6.0 U	5.9 U	6.0 U	na	5.9 U	5.9 U	5.9 U	5.9 U
2,4-Dinitrophenol	µg/kg dw	200 UJ	190 UJ	600 UJ	590 UJ	200 UJ	590 UJ	600 UJ	590 UJ	na	600 UJ	990 UJ	600 UJ	na	590 UJ	590 UJ	990 UJ	200 UJ
2,4-Dinitrotoluene	µg/kg dw	99 U	97 U	300 U	290 U	98 U	300 U	300 U	300 U	na	300 U	490 U	300 U	na	290 U	290 U	500 U	99 U
2,6-Dinitrotoluene	µg/kg dw	99 U	97 U	300 U	290 U	98 U	300 U	300 U	300 U	na	300 U	490 U	300 U	na	290 U	290 U	500 U	99 U
2-Chlorophenol	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
2-Methylphenol	µg/kg dw	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U	5.9 U	6.0 U	4.7 J	na	6.0 U	5.9 U	6.0 U	na	5.9 U	5.9 U	5.9 U	5.9 U
2-Nitroaniline	µg/kg dw	99 U	97 U	300 U	290 U	98 U	300 U	300 U	300 U	na	300 U	490 U	300 U	na	290 U	290 U	500 U	99 U
2-Nitrophenol	µg/kg dw	99 U	97 U	300 U	290 U	98 U	300 U	300 U	300 U	na	300 U	490 U	300 U	na	290 U	290 U	500 U	99 U
3,3'-Dichlorobenzidine	µg/kg dw	99 UJ	97 UJ	300 UJ	290 UJ	98 UJ	300 UJ	300 UJ	300 UJ	na	300 UJ	490 UJ	300 UJ	na	290 UJ	290 UJ	500 UJ	99 UJ
3-Nitroaniline	µg/kg dw	99 UJ	97 UJ	300 UJ	290 UJ	98 UJ	300 U	300 U	300 U	na	300 U	490 U	300 U	na	290 UJ	290 UJ	500 UJ	99 UJ
4,6-Dinitro-o-cresol	µg/kg dw	200 UJ	190 UJ	600 UJ	590 UJ	200 UJ	590 UJ	600 UJ	590 UJ	na	600 UJ	990 UJ	600 UJ	na	590 UJ	590 UJ	990 UJ	200 UJ
4-Bromophenyl phenyl ether	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
4-Chloro-3-methylphenol	µg/kg dw	99 U	97 U	300 U	290 U	98 U	300 U	300 U	300 U	na	300 U	490 U	300 U	na	290 U	290 U	500 U	99 U
4-Chloroaniline	µg/kg dw	99 UJ	97 UJ	300 UJ	290 UJ	98 UJ	300 UJ	300 UJ	300 UJ	na	300 UJ	490 UJ	300 UJ	na	290 UJ	290 UJ	500 UJ	99 UJ
4-Chlorophenyl phenyl ether	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
4-Methylphenol	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
4-Nitroaniline	µg/kg dw	99 UJ	97 UJ	300 UJ	290 UJ	98 UJ	300 U	300 U	300 U	na	300 U	490 U	300 U	na	290 UJ	290 UJ	500 UJ	99 UJ
4-Nitrophenol	µg/kg dw	99 U	97 U	300 U	290 U	98 U	300 UJ	300 UJ	300 UJ	na	300 U	490 U	300 UJ	na	290 U	290 U	500 U	99 U
Aniline	µg/kg dw	20 UJ	19 UJ	60 UJ	59 UJ	20 UJ	59 UJ	60 UJ	59 UJ	na	60 UJ	99 UJ	60 UJ	na	59 UJ	59 UJ	99 UJ	20 UJ
Benzoic acid	µg/kg dw	150 J	130 J	80 J	81 J	48 J	150 J	100 J	130 J	na	220 J	450 J	210 J	na	110 J	130 J	110 J	35 J
Benzyl alcohol	µg/kg dw	30 U	29 U	30 U	29 U	29 U	30 U	30 U	30 U	na	18 J	64 J	21 J	na	29 U	29 U	30 U	30 U
bis(2-chloroethoxy) methane	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC43		LDW-SC44			LDW-SC45				LDW-SC46				LDW-SC47			
ANALYTE	UNIT	LDW-SC43-0-2	LDW-SC43-2-4	LDW-SC44-0-2	LDW-SC44-2-3.2	LDW-SC44-3.2-4	LDW-SC45-0-1	LDW-SC45-1-2	LDW-SC45-2-4	LDW-SC45-5-6	LDW-SC46-0-1	LDW-SC46-1-2	LDW-SC46-2-4	LDW-SC46-4-6.8	LDW-SC47-0-1	LDW-SC47-1-2	LDW-SC47-2-3	LDW-SC47-3-4
bis(2-chloroethyl)ether	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
bis(2-chloroisopropyl) ether	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
Hexachlorobenzene	µg/kg dw	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U	5.9 U	6.0 U	5.9 U	na	6.0 U	10	6.0 U	na	5.9 U	5.9 U	5.9 U	5.9 U
Hexachlorobutadiene	µg/kg dw	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U	5.9 U	6.0 U	5.9 UJ	na	6.0 U	5.9 U	6.0 U	na	5.9 U	5.9 U	5.9 U	5.9 U
Hexachlorocyclopenta-diene	µg/kg dw	99 U	97 U	300 U	290 U	98 U	300 UJ	300 UJ	300 UJ	na	300 U	490 U	300 UJ	na	290 U	290 U	500 U	99 U
Hexachloroethane	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
Isophorone	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
Nitrobenzene	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	60 U	na	59 U	59 U	99 U	20 U
N-Nitrosodimethylamine	µg/kg dw	30 U	29 U	30 U	29 U	29 U	30 U	30 U	30 U	na	30 UJ	30 UJ	30 U	na	29 U	29 U	30 U	30 U
N-Nitroso-di-n-propylamine	µg/kg dw	30 U	29 U	30 U	29 U	29 U	30 U	30 U	30 U	na	30 U	30 U	30 U	na	29 U	29 U	30 U	30 U
N-Nitrosodiphenylamine	µg/kg dw	9.5 UJ	5.8 UJ	43 UJ	96 UJ	5.9 UJ	21 U	17 U	40 U	na	62 U	29 U	36 U	na	8.2 UJ	38 UJ	18 UJ	5.9 UJ
Pentachlorophenol	µg/kg dw	30 U	29 U	30 U	29 U	29 U	30 U	30 U	85	na	30 U	30 U	30 U	na	29 U	29 U	30 U	30 U
Phenol	µg/kg dw	20 U	19 U	60 U	59 U	20 U	59 U	60 U	59 U	na	60 U	99 U	61	na	59 U	59 U	99 U	20 U
Polychlorinated biphenyls																		
Aroclor-1016	µg/kg dw	4.0 U	3.9 U	40 U	39 U	3.9 U	44 U	20 U	40 U	3.9 U	16 UJ	7.9 UJ	16 UJ	4.0 U	3.9 U	130 U	28 U	4.0 U
Aroclor-1221	µg/kg dw	4.0 U	3.9 U	40 U	39 U	3.9 U	44 U	20 U	40 U	3.9 U	16 UJ	7.9 UJ	16 UJ	4.0 U	3.9 U	130 U	28 U	4.0 U
Aroclor-1232	µg/kg dw	4.0 U	3.9 U	40 U	39 U	3.9 U	44 U	20 U	40 U	3.9 U	16 UJ	7.9 UJ	16 UJ	4.0 U	3.9 U	130 U	28 U	4.0 U
Aroclor-1242	µg/kg dw	4.0 UJ	3.9 UJ	40 U	39 U	3.9 U	44 U	20 U	40 U	7.7 U	16 U	7.9 U	16 U	21	3.9 UJ	130 U	28 U	4.0 UJ
Aroclor-1248	µg/kg dw	4.0 U	3.9 U	40 U	39 U	3.9 U	49 J	41	75	3.9 U	68	38	67	4.0 U	13	460	100 J	4.0 U
Aroclor-1254	µg/kg dw	4.0 UJ	3.9 UJ	240	85	3.9 U	110	130	330	94	65	72	100	84	30 J	1,100	270 J	4.0 UJ
Aroclor-1260	µg/kg dw	4.0 UJ	3.9 UJ	270	360	3.9 U	69	96	160	28	81	75	100	90	29 J	410	120 J	4.0 UJ
Total PCBs	µg/kg dw	4.0 UJ	3.9 UJ	510	450	3.9 U	230 J	270	570	122	214	185	270	195	72 J	2,000	490 J	4.0 UJ
Pesticides																		
2,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC43		LDW-SC44			LDW-SC45				LDW-SC46				LDW-SC47			
ANALYTE	UNIT	LDW-SC43-0-2	LDW-SC43-2-4	LDW-SC44-0-2	LDW-SC44-2-3.2	LDW-SC44-3.2-4	LDW-SC45-0-1	LDW-SC45-1-2	LDW-SC45-2-4	LDW-SC45-5-6	LDW-SC46-0-1	LDW-SC46-1-2	LDW-SC46-2-4	LDW-SC46-4-6.8	LDW-SC47-0-1	LDW-SC47-1-2	LDW-SC47-2-3	LDW-SC47-3-4
4,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total DDTs	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
beta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
delta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
beta-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor epoxide	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Mirex	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
cis-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Oxychlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
trans-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Grain size																		
Fractional % phi >-1 (>2000 µm)	% dw	na	na	na	2.5	25.1	0.3	*0.4*	0.2	na	2.2	11.1	4.5	na	0.6	0.1	na	0.1

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC43		LDW-SC44			LDW-SC45				LDW-SC46				LDW-SC47			
ANALYTE	UNIT	LDW-SC43-0-2	LDW-SC43-2-4	LDW-SC44-0-2	LDW-SC44-2-3.2	LDW-SC44-3.2-4	LDW-SC45-0-1	LDW-SC45-1-2	LDW-SC45-2-4	LDW-SC45-5-6	LDW-SC46-0-1	LDW-SC46-1-2	LDW-SC46-2-4	LDW-SC46-4-6.8	LDW-SC47-0-1	LDW-SC47-1-2	LDW-SC47-2-3	LDW-SC47-3-4
Fractional % phi -1-0 (1000-2000 µm)	% dw	0.1	na	0.1	0.8	4.6	0.1	*0.3*	0.8	na	2.0	1.1	1.1	na	1.2	0.5	0.9	2.1
Fractional % phi 0-1 (500-1000 µm)	% dw	1.0	4.4	2.1	5.4	22.8	3.2	*1.7*	1.7	na	4.7	2.8	2.5	na	12.6	2.4	7.5	24.3
Fractional % phi 1-2 (250-500 µm)	% dw	3.9	21.6	3.4	9.8	26.0	7.8	*8.4*	5.3	na	10.7	3.4	4.2	na	38.8	11.0	26.4	50
Fractional % phi 2-3 (125-250 µm)	% dw	6.7	18.1	2.5	4.6	5.6	6.9	*8.7*	8.8	na	9.9	4.7	4.4	na	23.2	11.0	17.3	20
Fractional % phi 3-4 (62.5-125 µm)	% dw	22.2	25.5	13.0	8.7	3.4	11.2	*9.4*	11.5	na	12.7	12.7	5.2	na	8.5	14.1	9.5	2.2
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	28.6	15.8	18.1	12.5	3.8	12.4	*12.1*	13.1	na	12.2	14.9	17.3	na	4.3	16.0	10.5	1.3
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	16.9	6.3	18.2	15.8	2.3	18.3	*17.5*	18.8	na	13.6	13.9	15.1	na	3.7	15.7	10	na
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	7.6	3.0	17.0	13.8	1.8	15.4	*16.9*	18.7	na	11.4	14.0	18.0	na	2.4	9.6	6.1	na
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	4.1	1.7	9.3	9.3	1.3	8.6	*8.8*	8.0	na	6.5	6.5	8.6	na	1.3	6.6	3.9	na
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	2.9	1.2	5.3	5.9	1.1	5.5	*5.1*	3.3	na	4.3	3.6	2.8	na	1.3	3.5	2.2	na
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	1.8	0.9	3.5	3.4	0.7	4.1	*3.4*	3.2	na	2.3	2.4	6.0	na	0.6	3.3	1.8	na
Fractional % phi 10+ (<0.98 µm)	% dw	4.3	1.7	7.5	7.5	1.4	6.2	*7.4*	6.6	na	7.4	8.8	10.3	na	1.6	6.3	3.9	na
Rocks (total calc'd)	% dw	na	na	na	2.5	25.1	0.3	*0.4*	0.2	na	2.2	11.1	4.5	na	0.6	0.1	na	0.1
Sand (total calc'd)	% dw	33.9	69.6	21.1	29.3	62.4	29.2	*28.5*	28.1	na	40.0	24.7	17.4	na	84.3	39.0	61.6	99
Silt (total calc'd)	% dw	57.2	26.8	62.6	51.4	9.2	54.7	*55.3*	58.6	na	43.7	49.3	59.0	na	11.7	47.9	31	1.3
Clay (total calc'd)	% dw	9.0	3.8	16.3	16.8	3.2	15.8	*15.9*	13.1	na	14.0	14.8	19.1	na	3.5	13.1	7.9	
Fines (percent silt+clay)	% dw	66.2	30.6	78.9	68.2	12.4	70.5	*71.2*	71.7	na	57.7	64.1	78.1	na	15.2	61.0	38	1.3
Conventional parameters																		
Total organic carbon (TOC)	% dw	0.675	0.443	1.59	1.90	0.889	1.48	1.40	6.88	0.272	1.81	1.42	1.94	1.88	1.08	1.75	1.61	0.199
Total solids	% ww	68.70	60.90	59.90	62.00	81.70	69.60	67.60	55.80	80.0	*55.90*	60.70	59.10	61.40	75.30	52.10	51.50	70.40
Geotechnical																		
Bulk density (dry)	pcf	88.8	89.4	56.6	107.6	na	na	58.4	49.5	na	na	63.8	61.4	na	na	61.7	71.8	na
Bulk density (wet)	pcf	121.7	117.7	96.7	131.6	na	na	100.2	90.7	na	na	104.1	100.6	na	na	103.6	106.4	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC43		LDW-SC44			LDW-SC45				LDW-SC46				LDW-SC47			
ANALYTE	UNIT	LDW-SC43-0-2	LDW-SC43-2-4	LDW-SC44-0-2	LDW-SC44-2-3.2	LDW-SC44-3.2-4	LDW-SC45-0-1	LDW-SC45-1-2	LDW-SC45-2-4	LDW-SC45-5-6	LDW-SC46-0-1	LDW-SC46-1-2	LDW-SC46-2-4	LDW-SC46-4-6.8	LDW-SC47-0-1	LDW-SC47-1-2	LDW-SC47-2-3	LDW-SC47-3-4
Moisture	% dw	37.03	31.71	70.82	22.31	na	na	71.70	83.28	na	na	63.07	63.87	na	na	67.92	48.20	na
Specific gravity	g/cc	2.70	2.67	2.66	2.69	na	na	2.67	2.63	na	na	2.68	2.57	na	na	2.62	2.64	na
Atterberg limits classification	none	non-plastic	non-plastic	OH	non-plastic	na	na	MH	MH	na	na	OH	OH	na	na	OH	non-plastic	na
Liquid limit	% dw	na	na	56.4	na	na	na	55.7	72.0	na	na	52.9	61.3	na	na	53.4	na	na
Plastic limit	% dw	na	na	31.7	na	na	na	30.4	42.3	na	na	36.1	32.5	na	na	28.8	na	na
Plasticity index	% dw	na	na	24.7	na	na	na	25.3	29.7	na	na	16.8	28.8	na	na	24.6	na	na
Porosity	S.U.	0.47	0.46	0.66	0.36	na	na	0.65	0.70	na	na	0.62	0.62	na	na	0.62	0.56	na

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1m. 1- and 2-ft intervals, samples SC48 through SC50a

1- AND 2-FT INTERVALS		LDW-SC48			LDW-SC49a						LDW-SC50a			
ANALYTE	UNIT	LDW-SC48-0-1	LDW-SC48-1-2	LDW-SC48-2-4	LDW-SC49-0-1	LDW-SC49-1-2	LDW-SC49-2-4	LDW-SC49-4-6	LDW-SC49-6-8	LDW-SC49-8-10	LDW-SC50-0-1	LDW-SC50-1-2	LDW-SC50-2-2.8	LDW-SC50-2.8-4
Metals and trace elements														
Antimony	mg/kg dw	6 UJ	6 UJ	7 UJ	10 UJ	9 UJ	8 UJ	na	na	na	6 UJ	7 UJ	6 UJ	6 UJ
Arsenic	mg/kg dw	6 U	6 U	7 U	10	10	11	na	na	na	707	281	161	21
Cadmium	mg/kg dw	0.2 U	0.3 U	0.3 U	0.4 U	0.3 U	0.7	na	na	na	0.3 U	0.3 U	0.2 U	0.2 U
Chromium	mg/kg dw	13.7	10.8	8.1	25	27.6	26.6	na	na	na	28.5	24.3	21.6	11.8
Cobalt	mg/kg dw	5.0	4.2	3.2	8.0	8.7	9.2	na	na	na	5.9	5.6	6.9	4.9
Copper	mg/kg dw	16.3	12.0	7.6	40.2	48.2	45.4	na	na	na	36.1	24.4	24.9	9.4
Lead	mg/kg dw	6 J	3 U	3 U	18	28	36	na	na	na	47	22	11	2 U
Mercury	mg/kg dw	0.05 U	0.04 U	0.05 U	0.11	0.16	0.17	na	na	na	0.20	0.06 U	0.07	0.06 U
Molybdenum	mg/kg dw	0.6 U	0.6 U	0.7 U	1	0.9	0.9	na	na	na	1.5	1.0	0.7	0.6 U
Nickel	mg/kg dw	10	8	6	19	20	19	na	na	na	17	14	32	8
Selenium	mg/kg dw	6 U	6 U	7 U	10 U	9 U	8 U	na	na	na	6 U	7 U	6 U	6 U
Silver	mg/kg dw	0.4 U	0.4 U	0.4 U	0.6 U	0.5 U	0.5 U	na	na	na	0.4 U	0.4 U	0.4 U	0.3 U
Thallium	mg/kg dw	6 U	6 U	7 U	10 U	9 U	8 U	na	na	na	6 U	7 U	6 U	6 U
Vanadium	mg/kg dw	44.5	39.6	33.8	64.6	68.6	68.4	na	na	na	50.6	52.2	52.4	39.9
Zinc	mg/kg dw	37.5 J	23.7 J	16.2 J	81	102	99.3	na	na	na	161	124	108	47.7
Organometals														
Monobutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Tributyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
PAHs														
1-Methylnaphthalene	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
2-Chloronaphthalene	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
2-Methylnaphthalene	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	56 J	59 U	20 U	20 U
Acenaphthene	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	41 J	59 U	20 U	20 U
Acenaphthylene	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC48			LDW-SC49a						LDW-SC50a			
ANALYTE	UNIT	LDW-SC48-0-1	LDW-SC48-1-2	LDW-SC48-2-4	LDW-SC49-0-1	LDW-SC49-1-2	LDW-SC49-2-4	LDW-SC49-4-6	LDW-SC49-6-8	LDW-SC49-8-10	LDW-SC50-0-1	LDW-SC50-1-2	LDW-SC50-2-2.8	LDW-SC50-2.8-4
Anthracene	µg/kg dw	20 U	20 U	19 U	40 U	56	24	na	na	na	100	46 J	20 U	20 U
Benzo(a)anthracene	µg/kg dw	28	20 U	19 U	95	160	64 U	na	na	na	280	140	12 J	20 U
Benzo(a)pyrene	µg/kg dw	25	20 U	19 U	110 J	180	86	na	na	na	260	92	20 U	20 U
Benzo(b)fluoranthene	µg/kg dw	37	20 U	19 U	200 J	310	110	na	na	na	230	88	11 J	20 U
Benzo(g,h,i)perylene	µg/kg dw	20 U	20 U	19 U	54 J	45	20 U	na	na	na	75	59 U	20 U	20 U
Benzo(k)fluoranthene	µg/kg dw	32	20 U	19 U	180 J	280	100	na	na	na	260	110	10 J	20 U
Total benzofluoranthenes	µg/kg dw	69	20 U	19 U	380 J	590	210	na	na	na	490	200	21 J	20 U
Chrysene	µg/kg dw	36	20 U	19 U	120	260	83	na	na	na	330	160	14 J	20 U
Dibenzo(a,h)anthracene	µg/kg dw	20 U	20 U	19 U	40 UJ	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
Dibenzofuran	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
Fluoranthene	µg/kg dw	120	20 U	19 U	250	260	200	na	na	na	770	200	40	14 J
Fluorene	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	41 J	59 U	20 U	20 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	20 U	20 U	19 U	45 J	40 U	20 U	na	na	na	100	35 J	20 UJ	20 U
Naphthalene	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
Phenanthrene	µg/kg dw	18 J	20 U	19 U	93	83	76	na	na	na	420	96	20	20 U
Pyrene	µg/kg dw	73	20 U	19 U	280	550	220	na	na	na	500	140	28	11 J
Total HPAH	µg/kg dw	350	20 U	19 U	1,330 J	2,050	800	na	na	na	2,810	970 J	115 J	25 J
Total LPAH	µg/kg dw	18 J	20 U	19 U	93	139	100	na	na	na	600 J	142 J	20	20 U
Carcinogenic PAHs	µg/kg dw	40	18 U	17 U	170 J	270	120	na	na	na	360	140 J	18 J	18 U
Total PAH	µg/kg dw	370 J	20 U	19 U	1,430 J	2,180	900	na	na	na	3,410 J	1,110 J	135 J	25 J
Phthalates														
Bis(2-ethylhexyl)phthalate	µg/kg dw	61	20 U	19 U	230 U	210 U	210 U	na	na	na	680	64	63	20 U
Butyl benzyl phthalate	µg/kg dw	5.9 U	5.9 U	5.8 U	22	24 U	28 U	na	na	na	24	14	6.6	6.0 U
Diethyl phthalate	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
Dimethyl phthalate	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
Di-n-butyl phthalate	µg/kg dw	12 J	11 J	19 U	52 U	40 U	27 U	na	na	na	60 U	59 U	23 U	20 U
Di-n-octyl phthalate	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
Other SVOCs														

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC48			LDW-SC49a						LDW-SC50a			
ANALYTE	UNIT	LDW-SC48-0-1	LDW-SC48-1-2	LDW-SC48-2-4	LDW-SC49-0-1	LDW-SC49-1-2	LDW-SC49-2-4	LDW-SC49-4-6	LDW-SC49-6-8	LDW-SC49-8-10	LDW-SC50-0-1	LDW-SC50-1-2	LDW-SC50-2-2.8	LDW-SC50-2.8-4
1,2,4-Trichlorobenzene	µg/kg dw	5.9 U	5.9 U	5.8 U	12 U	12 U	6.0 U	na	na	na	3.6 J	4.1 J	6.0 UJ	6.0 UJ
1,2-Dichlorobenzene	µg/kg dw	5.9 U	5.9 U	5.8 U	12 U	12 U	6.0 U	na	na	na	6.0 U	5.9 U	6.0 U	6.0 U
1,3-Dichlorobenzene	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
1,4-Dichlorobenzene	µg/kg dw	5.9 U	5.9 U	5.8 U	12 U	12 U	3.6 J	na	na	na	6.0 U	5.9 U	6.0 U	6.0 U
2,4,5-Trichlorophenol	µg/kg dw	98 U	99 UJ	97 U	200 U	200 U	100 U	na	na	na	300 U	300 U	99 U	99 U
2,4,6-Trichlorophenol	µg/kg dw	98 U	99 UJ	97 U	200 U	200 U	100 U	na	na	na	300 U	300 U	99 U	99 U
2,4-Dichlorophenol	µg/kg dw	98 U	99 UJ	97 U	200 U	200 U	100 U	na	na	na	300 U	300 U	99 U	99 U
2,4-Dimethylphenol	µg/kg dw	5.9 U	5.9 U	5.8 U	12 U	12 U	6.0 U	na	na	na	6.0 UJ	5.9 UJ	6.0 UJ	6.0 UJ
2,4-Dinitrophenol	µg/kg dw	200 U	200 UJ	190 U	400 UJ	400 UJ	200 UJ	na	na	na	600 UJ	590 UJ	200 UJ	200 UJ
2,4-Dinitrotoluene	µg/kg dw	98 U	99 U	97 U	200 U	200 U	100 U	na	na	na	300 U	300 U	99 U	99 U
2,6-Dinitrotoluene	µg/kg dw	98 U	99 U	97 U	200 U	200 U	100 U	na	na	na	300 U	300 U	99 U	99 U
2-Chlorophenol	µg/kg dw	20 U	20 UJ	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
2-Methylphenol	µg/kg dw	5.9 U	5.9 U	5.8 U	12 U	12 U	6.0 U	na	na	na	3.0 J	5.9 U	6.0 U	6.0 U
2-Nitroaniline	µg/kg dw	98 U	99 U	97 U	200 U	200 U	100 U	na	na	na	300 U	300 U	99 U	99 U
2-Nitrophenol	µg/kg dw	98 U	99 UJ	97 U	200 U	200 U	100 U	na	na	na	300 U	300 U	99 U	99 U
3,3'-Dichlorobenzidine	µg/kg dw	98 UJ	99 UJ	97 UJ	200 UJ	200 UJ	100 UJ	na	na	na	300 UJ	300 UJ	99 UJ	99 UJ
3-Nitroaniline	µg/kg dw	98 U	99 U	97 U	200 U	200 U	100 U	na	na	na	300 U	300 U	99 U	99 U
4,6-Dinitro-o-cresol	µg/kg dw	200 U	200 UJ	190 U	400 U	400 U	200 U	na	na	na	600 UJ	590 UJ	200 UJ	200 UJ
4-Bromophenyl phenyl ether	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
4-Chloro-3-methylphenol	µg/kg dw	98 U	99 UJ	97 U	200 U	200 U	100 U	na	na	na	300 U	300 U	99 U	99 U
4-Chloroaniline	µg/kg dw	98 UJ	99 UJ	97 UJ	200 UJ	200 UJ	100 UJ	na	na	na	300 UJ	300 UJ	99 UJ	99 UJ
4-Chlorophenyl phenyl ether	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
4-Methylphenol	µg/kg dw	20 U	20 UJ	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
4-Nitroaniline	µg/kg dw	98 U	99 U	97 U	200 U	200 U	100 U	na	na	na	300 U	300 U	99 U	99 U
4-Nitrophenol	µg/kg dw	98 U	99 UJ	97 U	200 UJ	200 U	100 U	na	na	na	300 U	300 U	99 UJ	99 U
Aniline	µg/kg dw	20 UJ	20 UJ	19 UJ	40 UJ	40 UJ	20 UJ	na	na	na	60 UJ	59 UJ	20 UJ	20 UJ
Benzoic acid	µg/kg dw	66	54 J	58 U	750 J	100 J	90	na	na	na	330 J	130 UJ	100 UJ	64 UJ
Benzyl alcohol	µg/kg dw	29 U	30 U	29 U	200	60 U	30 U	na	na	na	30 U	30 U	30 U	30 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC48			LDW-SC49a						LDW-SC50a			
ANALYTE	UNIT	LDW-SC48-0-1	LDW-SC48-1-2	LDW-SC48-2-4	LDW-SC49-0-1	LDW-SC49-1-2	LDW-SC49-2-4	LDW-SC49-4-6	LDW-SC49-6-8	LDW-SC49-8-10	LDW-SC50-0-1	LDW-SC50-1-2	LDW-SC50-2-2.8	LDW-SC50-2.8-4
bis(2-chloroethoxy) methane	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
bis(2-chloroethyl)ether	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
bis(2-chloroisopropyl) ether	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
Hexachlorobenzene	µg/kg dw	5.9 U	5.9 U	5.8 U	12 U	12 U	6.0 U	na	na	na	6.0 U	5.9 U	6.0 U	6.0 U
Hexachlorobutadiene	µg/kg dw	5.9 U	5.9 U	5.8 U	12 U	12 U	6.0 U	na	na	na	6.0 UJ	5.9 U	6.0 U	6.0 U
Hexachlorocyclopenta-diene	µg/kg dw	98 UJ	99 UJ	97 UJ	200 U	200 U	100 U	na	na	na	300 U	300 U	99 UJ	99 U
Hexachloroethane	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
Isophorone	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
Nitrobenzene	µg/kg dw	20 U	20 U	19 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U	20 U
N-Nitrosodimethylamine	µg/kg dw	29 U	30 U	29 U	59 U	60 U	30 U	na	na	na	30 U	30 U	30 U	30 U
N-Nitroso-di-n-propylamine	µg/kg dw	29 U	30 U	29 U	59 U	60 U	30 U	na	na	na	30 U	30 U	30 U	30 U
N-Nitrosodiphenylamine	µg/kg dw	8.2 U	5.9 U	5.8 U	17 U	12 U	17 U	na	na	na	100 U	30 U	21 U	6.0 U
Pentachlorophenol	µg/kg dw	29 U	30 U	29 U	89 J	60 UJ	30 U	na	na	na	30 U	30 U	30 U	30 U
Phenol	µg/kg dw	20 U	20 UJ	19 U	130	40 U	22	na	na	na	42 J	59 U	13 J	13 J
Polychlorinated biphenyls														
Aroclor-1016	µg/kg dw	3.9 U	3.8 U	3.9 U	3.9 U	3.9 U	4.0 U	3.9 U	40 U	20 U	55 U	110 U	7.8 UJ	3.8 UJ
Aroclor-1221	µg/kg dw	3.9 U	3.8 U	3.9 U	3.9 U	3.9 U	4.0 U	3.9 U	40 U	20 U	55 U	110 U	7.8 UJ	3.8 UJ
Aroclor-1232	µg/kg dw	3.9 U	3.8 U	3.9 U	3.9 U	3.9 U	4.0 U	3.9 U	40 U	20 U	55 U	110 U	7.8 UJ	3.8 UJ
Aroclor-1242	µg/kg dw	5.2	3.8 U	3.9 U	16	16	150	300	40 U	20 U	55 U	110 U	7.8 U	3.8 U
Aroclor-1248	µg/kg dw	3.9 U	3.8 U	3.9 U	3.9 U	3.9 U	4.0 U	3.9 U	390	20 U	140	270	14 J	3.8 U
Aroclor-1254	µg/kg dw	52	3.8 U	3.9 U	36	84	180	340	290	39 U	370	510	27	3.8 U
Aroclor-1260	µg/kg dw	20	3.8 U	3.9 U	23	50	91	140	130	130	110 U	210 U	34	3.8 U
Total PCBs	µg/kg dw	77	3.8 U	3.9 U	75	150	420	780	810	130	510	780	75 J	3.8 UJ
Pesticides														
2,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC48			LDW-SC49a						LDW-SC50a			
ANALYTE	UNIT	LDW-SC48-0-1	LDW-SC48-1-2	LDW-SC48-2-4	LDW-SC49-0-1	LDW-SC49-1-2	LDW-SC49-2-4	LDW-SC49-4-6	LDW-SC49-6-8	LDW-SC49-8-10	LDW-SC50-0-1	LDW-SC50-1-2	LDW-SC50-2-2.8	LDW-SC50-2.8-4
4,4'-DDD	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDE	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
4,4'-DDT	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Total DDTs	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
beta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
delta-BHC	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-Chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
alpha-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
beta-Endosulfan	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Endosulfan sulfate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin aldehyde	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Endrin ketone	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor epoxide	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Methoxychlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Mirex	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
cis-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Oxychlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Toxaphene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
trans-Nonachlor	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC48			LDW-SC49a						LDW-SC50a			
ANALYTE	UNIT	LDW-SC48-0-1	LDW-SC48-1-2	LDW-SC48-2-4	LDW-SC49-0-1	LDW-SC49-1-2	LDW-SC49-2-4	LDW-SC49-4-6	LDW-SC49-6-8	LDW-SC49-8-10	LDW-SC50-0-1	LDW-SC50-1-2	LDW-SC50-2-2.8	LDW-SC50-2.8-4
Grain size														
Fractional % phi >-1 (>2000 µm)	% dw	0.2	0.1	0.1	0.9	0.3	0.4	na	na	na	1.6	0.2	1.0	1.5
Fractional % phi -1-0 (1000-2000 µm)	% dw	0.7	1.0	0.3	1.7	0.7	0.9	na	na	na	0.9	0.8	3.3	6.4
Fractional % phi 0-1 (500-1000 µm)	% dw	5.8	10.5	3.1	1.9	1.0	2.0	na	na	na	3.2	9.2	22.3	41.4
Fractional % phi 1-2 (250-500 µm)	% dw	44.0	58.1	46.2	2.0	1.4	6.9	na	na	na	12.7	24.9	25.6	41.6
Fractional % phi 2-3 (125-250 µm)	% dw	33.3	25.6	40.1	15.9	4.3	18.2	na	na	na	26.4	23.3	11.6	7.0
Fractional % phi 3-4 (62.5-125 µm)	% dw	5.4	2.2	7.6	20.5	14.8	13.6	na	na	na	26.4	19.9	14.0	0.8
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	2.4	2.5	2.6	14.9	17.0	9.9	na	na	na	13.8	10.6	8.8	0.2
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	2.5	na	na	13.8	17.2	6.7	na	na	na	5.4	2.9	5.0	0.1
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	1.7	na	na	10.9	22.7	22.7	na	na	na	3.3	2.8	3.3	0.2
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	1.2	na	na	5.7	6.7	6.9	na	na	na	1.7	1.7	1.8	0.1
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	0.8	na	na	3.5	3.7	3.9	na	na	na	1.4	1.0	1.0	0.1 U
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	0.5	na	na	2.5	3.1	2.3	na	na	na	0.8	0.5	0.5	0.1 U
Fractional % phi 10+ (<0.98 µm)	% dw	1.4	na	na	5.8	7.1	5.6	na	na	na	2.5	2.2	1.9	0.6
Rocks (total calc'd)	% dw	0.2	0.1	0.1	0.9	0.3	0.4	na	na	na	1.6	0.2	1.0	1.5
Sand (total calc'd)	% dw	89.2	97.4	97.3	42.0	22.2	41.6	na	na	na	69.6	78.1	76.8	97.2
Silt (total calc'd)	% dw	7.8	2.5	2.6	45.3	63.6	46.2	na	na	na	24.2	18.0	18.9	0.6
Clay (total calc'd)	% dw	2.7	na	na	11.8	13.9	11.8	na	na	na	4.7	3.7	3.4	0.6
Fines (percent silt+clay)	% dw	10.5	2.5	2.6	57.1	77.5	58.0	na	na	na	28.9	21.7	22.3	1.2
Conventional parameters														
Total organic carbon (TOC)	% dw	1.72	0.416	0.373	1.97	1.97	2.05	2.03	2.71	2.30	0.630	0.816	1.18	0.129
Total solids	% ww	76.60	80.60	78.80	49.10	56.40	60.10	60.60	58.20	58.80	68.60	74.90	74.60	83.10

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC48			LDW-SC49a						LDW-SC50a			
ANALYTE	UNIT	LDW-SC48-0-1	LDW-SC48-1-2	LDW-SC48-2-4	LDW-SC49-0-1	LDW-SC49-1-2	LDW-SC49-2-4	LDW-SC49-4-6	LDW-SC49-6-8	LDW-SC49-8-10	LDW-SC50-0-1	LDW-SC50-1-2	LDW-SC50-2-2.8	LDW-SC50-2.8-4
Geotechnical														
Bulk density (dry)	pcf	40.8	79.8	na	53.0	56.7	58.8	na	na	na	na	73.4	76.4	na
Bulk density (wet)	pcf	88.9	106.8	na	96.6	95.0	100.8	na	na	na	na	111.2	106.9	na
Moisture	% dw	117.8	33.80	na	82.37	67.41	71.29	na	na	na	na	51.47	39.94	na
Specific gravity	g/cc	2.58	2.66	na	2.65	2.66	2.59	na	na	na	na	2.65	2.68	na
Atterberg limits classification	none	non-plastic	non-plastic	na	OH	OH	non-plastic	na	na	na	na	non-plastic	non-plastic	na
Liquid limit	% dw	na	na	na	59.6	55.4	na	na	na	na	na	na	na	na
Plastic limit	% dw	na	na	na	42.8	38.2	na	na	na	na	na	na	na	na
Plasticity index	% dw	na	na	na	16.8	17.2	na	na	na	na	na	na	na	na
Porosity	S.U.	0.75	0.52	na	0.68	0.66	0.64	na	na	na	na	0.56	0.54	na

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

Table A-1n. 1- and 2-ft intervals, samples SC51 through SC56

1- AND 2-FT INTERVALS		LDW-SC51			LDW-SC52			LDW-SC53		LDW-SC54		LDW-SC55			LDW-SC56	
ANALYTE	UNIT	LDW-SC51-0-2	LDW-SC51-2-3.8	LDW-SC51-3.8-5.8	LDW-SC52-0-1	LDW-SC52-1-2	LDW-SC52-2-4	LDW-SC53-0-2	LDW-SC53-2-4	LDW-SC54-0-2	LDW-SC54-2-4	LDW-SC55-0-1	LDW-SC55-1-2	LDW-SC55-2-3	LDW-SC56-0-2	LDW-SC56-2-4
Metals and trace elements																
Antimony	mg/kg dw	6 UJ	7 UJ	na	8 UJ	8 UJ	6 UJ	*10 UJ*	10 UJ	9 UJ	8 UJ	*8 UJ*	6 UJ	6 UJ	*6 UJ*	6 UJ
Arsenic	mg/kg dw	25	55	na	17	28	6 U	*20*	20	12	11	*10*	6 U	6 U	*7*	6
Cadmium	mg/kg dw	0.7	1.0	na	1.9	1.9	0.2 U	*0.4 U*	0.5	0.4 U	0.3 U	*0.4*	0.3 U	0.2 U	*0.2 U*	0.2 U
Chromium	mg/kg dw	67.4	34.8	na	81.3	135	10.3	*34*	32	23.8	24.4	*20.0*	13.6	14.3	*16.1*	11.6
Cobalt	mg/kg dw	7.5	7.4	na	7.5	8.2	3.3	*10.2*	9.9	8.5	8.5	*7.2*	5.2	3.9	*5.3*	5.3
Copper	mg/kg dw	44.5	38.2	na	101	47.6	9.7	*62.2*	71.2	36.5	35.9	*25.3*	16.2	19.3	*21.8*	11.8
Lead	mg/kg dw	76 J	41 J	na	222 J	36 J	2 UJ	*28*	41	17	18	*10*	3	3	*40 J*	2 U
Mercury	mg/kg dw	0.10 J	0.12 J	na	0.67	0.25	0.17	*0.16*	0.18	0.10	0.13	*0.09*	0.13	0.05 U	*0.05*	0.05 U
Molybdenum	mg/kg dw	3.0	7.6	na	1.8	1.9	0.6 U	*1 U*	1 U	0.9 U	1.2	*0.8 U*	0.6 U	0.6 U	*0.6*	0.6 U
Nickel	mg/kg dw	34	33	na	19	49	7	*26*	24	18	20	*15*	11	9	*12*	10
Selenium	mg/kg dw	6 U	7 U	na	8 U	8 U	6 U	*10 U*	10 U	9 U	8 U	*8 U*	6 U	6 U	*6 U*	6 U
Silver	mg/kg dw	1.1	0.4 U	na	1.6	2.6	0.4 U	*0.6 U*	0.6 U	0.5 U	0.5 U	*0.5 U*	0.4 U	0.4 U	*0.4 U*	0.3 U
Thallium	mg/kg dw	6 U	7 U	na	8 U	8 U	6 U	*10 U*	10 U	9 U	8 U	*8 U*	6 U	6 U	*6 U*	6 U
Vanadium	mg/kg dw	52.5	60.1	na	50.9	63.0	38.3	*80.5*	77.6	61.0	62.7	*55.1*	50.5	47.0	*50.1*	47.8
Zinc	mg/kg dw	203	269	na	200	104	21.1	*122*	141	81	80	*54.4*	31.8	30.1	*68.5 J*	29.9 J
Organometals																
Monobutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibutyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Tributyltin as ion	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PAHs																
1-Methylnaphthalene	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
2-Chloronaphthalene	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
2-Methylnaphthalene	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Acenaphthene	µg/kg dw	380	62	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	16 J	20 U
Acenaphthylene	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC51			LDW-SC52			LDW-SC53		LDW-SC54		LDW-SC55			LDW-SC56	
ANALYTE	UNIT	LDW-SC51-0-2	LDW-SC51-2-3.8	LDW-SC51-3.8-5.8	LDW-SC52-0-1	LDW-SC52-1-2	LDW-SC52-2-4	LDW-SC53-0-2	LDW-SC53-2-4	LDW-SC54-0-2	LDW-SC54-2-4	LDW-SC55-0-1	LDW-SC55-1-2	LDW-SC55-2-3	LDW-SC56-0-2	LDW-SC56-2-4
Anthracene	µg/kg dw	200	82	na	59 U	39 U	20 U	100	100	59 U	60 U	20 U	20 U	20 U	35	20 U
Benzo(a)anthracene	µg/kg dw	540	270	na	120	39 U	20 U	600	500	83	86	20 U	20 U	20 U	110	20 U
Benzo(a)pyrene	µg/kg dw	490	260	na	100	39 U	20 U	800 J	670	76	99	20 U	20 U	20 U	140	20 U
Benzo(b)fluoranthene	µg/kg dw	520	210	na	120	39 U	20 U	1,400 J	940	140	150	20 U	20 U	20 U	150	20 U
Benzo(g,h,i)perylene	µg/kg dw	160	78	na	59 U	39 U	20 U	260 J	160	59 U	60 U	20 U	20 U	20 U	29	20 U
Benzo(k)fluoranthene	µg/kg dw	480	280	na	160	39 U	20 U	1,100 J	970	150	160	20 U	20 U	20 U	140	20 U
Total benzofluoranthenes	µg/kg dw	1,000	490	na	280	39 U	20 U	2,500 J	1,910	290	310	20 U	20 U	20 U	290	20 U
Chrysene	µg/kg dw	590	320	na	170	39 U	20 U	900	710	110	110	20 U	20 U	20 U	130	20 U
Dibenzo(a,h)anthracene	µg/kg dw	49 J	59 U	na	59 U	39 U	20 U	57 J	42	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Dibenzofuran	µg/kg dw	230	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Fluoranthene	µg/kg dw	2,100	810	na	450	91	20 U	2,600	2,100	200	210	54 U	20 U	20 U	310	20 U
Fluorene	µg/kg dw	150	53 J	na	59 U	39 U	20 U	52	39 U	59 U	60 U	20 U	20 U	20 U	15 J	20 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	220	110	na	59 U	39 U	20 U	240 J	160	59 U	60 U	20 U	20 U	20 U	32	20 U
Naphthalene	µg/kg dw	56 J	59 U	na	59 U	47	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Phenanthrene	µg/kg dw	910	440	na	120	55	20 U	820	530	59	76	24	20 U	20 U	170	20 U
Pyrene	µg/kg dw	1,200	590	na	410	61	20 U	1,900	1,400	170	220	35 U	20 U	20 U	220	20 U
Total HPAH	µg/kg dw	6,300 J	2,930	na	1,530	152	20 U	9,900 J	7,700	930	1,040	54 U	20 U	20 U	1,260	20 U
Total LPAH	µg/kg dw	1,700 J	640 J	na	120	102	20 U	970	630	59	76	24	20 U	20 U	240 J	20 U
Carcinogenic PAHs	µg/kg dw	690 J	360	na	160	35 U	18 U	1,200 J	950	130	150	18 U	18 U	18 U	190	18 U
Total PAH	µg/kg dw	8,000 J	3,570 J	na	1,650	254	20 U	10,800 J	8,300	990	1,110	24	20 U	20 U	1,500 J	20 U
Phthalates																
Bis(2-ethylhexyl)phthalate	µg/kg dw	480	76	na	660	39 U	20 U	530 U	880	100	130	27 U	20 U	20 U	23	20 U
Butyl benzyl phthalate	µg/kg dw	36	29	na	610	12 U	5.9 U	38 U	95	22	16	5.9 U	5.9 U	6.0 U	5.9 U	5.9 U
Diethyl phthalate	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Dimethyl phthalate	µg/kg dw	60 U	59 U	na	84	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Di-n-butyl phthalate	µg/kg dw	69 U	59 U	na	200	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	16 J	10 J
Di-n-octyl phthalate	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Other SVOCs																

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC51			LDW-SC52			LDW-SC53		LDW-SC54		LDW-SC55			LDW-SC56	
ANALYTE	UNIT	LDW-SC51-0-2	LDW-SC51-2-3.8	LDW-SC51-3.8-5.8	LDW-SC52-0-1	LDW-SC52-1-2	LDW-SC52-2-4	LDW-SC53-0-2	LDW-SC53-2-4	LDW-SC54-0-2	LDW-SC54-2-4	LDW-SC55-0-1	LDW-SC55-1-2	LDW-SC55-2-3	LDW-SC56-0-2	LDW-SC56-2-4
1,2,4-Trichlorobenzene	µg/kg dw	6.0 U	5.9 U	na	22 U	12 U	5.9 U	12 U	12 U	5.9 UJ	6.0 U	5.9 U	5.9 U	6.0 U	5.9 U	5.9 U
1,2-Dichlorobenzene	µg/kg dw	4.8 J	20	na	5.9 U	12 U	5.9 U	12 U	12 U	5.9 U	6.0 U	5.9 U	5.9 U	6.0 U	5.9 U	5.9 U
1,3-Dichlorobenzene	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
1,4-Dichlorobenzene	µg/kg dw	5.4 J	11	na	5.9 U	12 U	5.9 U	12 U	12 U	5.9 U	6.0 U	5.9 U	5.9 U	6.0 U	5.9 U	5.9 U
2,4,5-Trichlorophenol	µg/kg dw	300 U	300 U	na	300 U	200 UJ	99 U	200 U	200 U	300 U	300 U	98 U	98 U	100 U	99 U	98 U
2,4,6-Trichlorophenol	µg/kg dw	300 U	300 U	na	300 U	200 UJ	99 U	200 U	200 U	300 U	300 U	98 U	98 U	100 U	99 U	98 U
2,4-Dichlorophenol	µg/kg dw	300 U	300 U	na	300 U	200 UJ	99 U	200 U	200 U	300 U	300 U	98 U	98 U	100 U	99 U	98 U
2,4-Dimethylphenol	µg/kg dw	6.0 UJ	9.5 J	na	5.9 U	12 U	5.9 U	12 U	12 U	5.9 U	6.0 U	5.9 U	5.9 U	6.0 U	5.9 U	5.9 U
2,4-Dinitrophenol	µg/kg dw	600 UJ	590 UJ	na	590 UJ	390 UJ	200 UJ	390 UJ	390 UJ	590 UJ	600 UJ	200 UJ	200 UJ	200 UJ	200 U	200 U
2,4-Dinitrotoluene	µg/kg dw	300 U	300 U	na	300 U	200 U	99 U	200 U	200 U	300 U	300 U	98 U	98 U	100 U	99 U	98 U
2,6-Dinitrotoluene	µg/kg dw	300 U	300 U	na	300 U	200 U	99 U	200 U	200 U	300 U	300 U	98 U	98 U	100 U	99 U	98 U
2-Chlorophenol	µg/kg dw	60 U	59 U	na	59 U	39 UJ	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
2-Methylphenol	µg/kg dw	6.0 UJ	5.9 UJ	na	160	12 U	5.9 U	12 U	12 U	5.9 U	6.0 U	5.9 U	5.9 U	6.0 U	5.9 U	5.9 U
2-Nitroaniline	µg/kg dw	300 U	300 U	na	300 U	200 U	99 U	200 U	200 U	300 U	300 U	98 U	98 U	100 U	99 U	98 U
2-Nitrophenol	µg/kg dw	300 U	300 U	na	300 U	200 UJ	99 U	200 U	200 U	300 U	300 U	98 U	98 U	100 U	99 U	98 U
3,3'-Dichlorobenzidine	µg/kg dw	300 UJ	300 UJ	na	300 UJ	200 UJ	99 UJ	200 UJ	200 UJ	300 UJ	300 UJ	98 UJ	98 UJ	100 UJ	99 UJ	98 UJ
3-Nitroaniline	µg/kg dw	300 UJ	300 UJ	na	300 U	200 U	99 U	200 U	200 U	300 UJ	300 UJ	98 U	98 U	100 U	99 U	98 U
4,6-Dinitro-o-cresol	µg/kg dw	600 U	590 U	na	590 U	390 UJ	200 U	390 U	390 U	590 UJ	600 UJ	200 U	200 U	200 U	200 U	200 U
4-Bromophenyl phenyl ether	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
4-Chloro-3-methylphenol	µg/kg dw	300 U	300 U	na	300 U	200 UJ	99 U	200 U	200 U	300 U	300 U	98 U	98 U	100 U	99 U	98 U
4-Chloroaniline	µg/kg dw	300 UJ	300 UJ	na	300 UJ	200 UJ	99 UJ	200 UJ	200 UJ	300 UJ	300 UJ	98 UJ	98 UJ	100 UJ	99 UJ	98 UJ
4-Chlorophenyl phenyl ether	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
4-Methylphenol	µg/kg dw	60 U	59 U	na	59 U	39 UJ	20 U	39 U	39 U	59 U	60 U	25 U	20 U	20 U	20 U	20 U
4-Nitroaniline	µg/kg dw	300 U	300 U	na	300 U	200 U	99 U	200 U	200 U	300 UJ	300 UJ	98 U	98 U	100 U	99 U	98 U
4-Nitrophenol	µg/kg dw	300 U	300 U	na	300 UJ	200 UJ	99 UJ	200 UJ	200 U	300 U	300 U	98 U	98 U	100 U	99 U	98 U
Aniline	µg/kg dw	60 UJ	59 UJ	na	120 UJ	39 UJ	20 UJ	39 UJ	39 UJ	59 UJ	60 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ
Benzoic acid	µg/kg dw	90	68	na	490	120 U	59	160	160	280 J	120 J	100 J	61 J	67 J	90	54 J

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC51			LDW-SC52			LDW-SC53		LDW-SC54		LDW-SC55			LDW-SC56	
ANALYTE	UNIT	LDW-SC51-0-2	LDW-SC51-2-3.8	LDW-SC51-3.8-5.8	LDW-SC52-0-1	LDW-SC52-1-2	LDW-SC52-2-4	LDW-SC53-0-2	LDW-SC53-2-4	LDW-SC54-0-2	LDW-SC54-2-4	LDW-SC55-0-1	LDW-SC55-1-2	LDW-SC55-2-3	LDW-SC56-0-2	LDW-SC56-2-4
Benzyl alcohol	µg/kg dw	18 J	21 J	na	40 U	58 U	30 U	59 U	58 U	30 U	30 U	30 U	30 U	30 U	30 U	29 U
bis(2-chloroethoxy) methane	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
bis(2-chloroethyl)ether	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
bis(2-chloroisopropyl) ether	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Hexachlorobenzene	µg/kg dw	6.0 U	5.9 U	na	5.9 U	12 U	5.9 U	0.99 U	0.98 U	0.98 U	0.99 U	5.9 U	5.9 U	6.0 U	5.9 U	5.9 U
Hexachlorobutadiene	µg/kg dw	6.0 U	5.9 U	na	5.9 U	12 U	5.9 U	0.99 U	0.98 U	0.98 U	0.99 U	5.9 U	5.9 U	6.0 U	5.9 U	5.9 U
Hexachlorocyclopenta-diene	µg/kg dw	300 U	300 U	na	300 U	200 U	99 U	200 U	200 U	300 U	300 U	98 U	98 U	100 U	99 UJ	98 UJ
Hexachloroethane	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Isophorone	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Nitrobenzene	µg/kg dw	60 U	59 U	na	59 U	39 U	20 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U	20 U
N-Nitrosodimethylamine	µg/kg dw	30 U	30 U	na	30 U	58 U	30 U	59 U	58 U	30 U	30 U	30 U	30 U	30 U	30 U	29 U
N-Nitroso-di-n-propylamine	µg/kg dw	30 UJ	30 UJ	na	320	58 U	30 U	59 U	58 U	30 U	30 U	30 U	30 U	30 U	30 U	29 U
N-Nitrosodiphenylamine	µg/kg dw	68 U	67 U	na	320 U	38 U	5.9 U	20 U	40 U	16 UJ	24 UJ	23 U	5.9 U	6.6 U	16 U	5.9 U
Pentachlorophenol	µg/kg dw	30 U	30 U	na	30 U	58 U	30 U	59 U	58 U	30 U	30 U	30 UJ	30 UJ	30 UJ	30 U	29 U
Phenol	µg/kg dw	60 U	59 U	na	59 U	39 UJ	20 U	39 U	74	59 U	60 U	20 U	20 U	20 U	20 U	20 U
Polychlorinated biphenyls																
Aroclor-1016	µg/kg dw	57 U	54 U	3.9 U	570 U	19 U	4.0 U	4.0 U	3.9 U	16 U	16 U	4.0 U	3.9 U	4.0 U	120 U	3.9 U
Aroclor-1221	µg/kg dw	57 U	54 U	3.9 U	570 U	19 U	4.0 U	4.0 U	3.9 U	16 U	16 U	4.0 U	3.9 U	4.0 U	120 U	3.9 U
Aroclor-1232	µg/kg dw	57 U	54 U	3.9 U	570 U	19 U	4.0 U	4.0 U	3.9 U	16 U	16 U	4.0 U	3.9 U	4.0 U	120 U	3.9 U
Aroclor-1242	µg/kg dw	57 U	54 U	3.9 U	570 U	19 U	4.0 U	13	13	16 U	16 U	4.0 U	3.9 U	4.0 U	120 U	3.9 U
Aroclor-1248	µg/kg dw	170	120	3.9 U	570 U	19 U	4.0 U	4.0 U	3.9 U	41	33	4.0 U	3.9 U	4.0 U	120 U	3.9 U
Aroclor-1254	µg/kg dw	930	400	3.9 U	2,400	19 U	4.0 U	32	38	44	50	5.7	3.9 U	4.0 U	330	3.9 U
Aroclor-1260	µg/kg dw	190	180	3.9 U	550 J	65	4.0 U	23	26	24	28	7.8	3.9 U	4.0 U	120 U	3.9 U
Total PCBs	µg/kg dw	1,290	700	3.9 U	3,000 J	65	4.0 U	68	77	109	111	13.5	3.9 U	4.0 U	330	3.9 U
Pesticides																
2,4'-DDD	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC51			LDW-SC52			LDW-SC53		LDW-SC54		LDW-SC55			LDW-SC56	
ANALYTE	UNIT	LDW-SC51-0-2	LDW-SC51-2-3.8	LDW-SC51-3.8-5.8	LDW-SC52-0-1	LDW-SC52-1-2	LDW-SC52-2-4	LDW-SC53-0-2	LDW-SC53-2-4	LDW-SC54-0-2	LDW-SC54-2-4	LDW-SC55-0-1	LDW-SC55-1-2	LDW-SC55-2-3	LDW-SC56-0-2	LDW-SC56-2-4
2,4'-DDE	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na
2,4'-DDT	µg/kg dw	na	na	na	na	na	na	2.0 UJ	2.0 UJ	2.0 U	2.0 U	na	na	na	na	na
4,4'-DDD	µg/kg dw	na	na	na	na	na	na	2.0 U	4.5 U	2.0 U	2.0 U	na	na	na	na	na
4,4'-DDE	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na
4,4'-DDT	µg/kg dw	na	na	na	na	na	na	5.3 U	6.3 U	3.2 U	2.0 U	na	na	na	na	na
Total DDTs	µg/kg dw	na	na	na	na	na	na	5.3 U	6.3 U	3.2 U	2.0 U	na	na	na	na	na
Aldrin	µg/kg dw	na	na	na	na	na	na	0.99 U	0.98 U	0.98 U	0.99 U	na	na	na	na	na
Dieldrin	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na
Total aldrin/dieldrin	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na
alpha-BHC	µg/kg dw	na	na	na	na	na	na	0.99 U	0.98 U	0.98 U	0.99 U	na	na	na	na	na
beta-BHC	µg/kg dw	na	na	na	na	na	na	0.99 U	0.98 U	0.98 U	0.99 U	na	na	na	na	na
gamma-BHC	µg/kg dw	na	na	na	na	na	na	0.99 U	0.98 U	0.98 U	0.99 U	na	na	na	na	na
delta-BHC	µg/kg dw	na	na	na	na	na	na	1.1 U	0.98 U	0.98 U	0.99 U	na	na	na	na	na
alpha-Chlordane	µg/kg dw	na	na	na	na	na	na	0.99 U	1.6 U	0.98 U	0.99 U	na	na	na	na	na
gamma-Chlordane	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	0.98 U	0.99 U	na	na	na	na	na
alpha-Endosulfan	µg/kg dw	na	na	na	na	na	na	0.99 U	0.98 U	0.98 U	0.99 U	na	na	na	na	na
beta-Endosulfan	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na
Endosulfan sulfate	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na
Endrin	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na
Endrin aldehyde	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na
Endrin ketone	µg/kg dw	na	na	na	na	na	na	2.0 UJ	2.0 UJ	2.0 U	2.0 U	na	na	na	na	na
Heptachlor	µg/kg dw	na	na	na	na	na	na	0.99 U	0.98 U	10 U	1.6 U	na	na	na	na	na
Heptachlor epoxide	µg/kg dw	na	na	na	na	na	na	0.99 U	0.98 U	0.98 U	0.99 U	na	na	na	na	na
Methoxychlor	µg/kg dw	na	na	na	na	na	na	9.9 U	9.8 U	9.8 U	9.9 U	na	na	na	na	na
Mirex	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na
cis-Nonachlor	µg/kg dw	na	na	na	na	na	na	2.0 UJ	2.0 UJ	2.0 U	2.0 U	na	na	na	na	na
Oxychlordane	µg/kg dw	na	na	na	na	na	na	2.0 U	3.8 U	2.0 U	2.0 U	na	na	na	na	na
Toxaphene	µg/kg dw	na	na	na	na	na	na	99 U	98 U	98 U	99 U	na	na	na	na	na

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC51			LDW-SC52			LDW-SC53		LDW-SC54		LDW-SC55			LDW-SC56	
ANALYTE	UNIT	LDW-SC51-0-2	LDW-SC51-2-3.8	LDW-SC51-3.8-5.8	LDW-SC52-0-1	LDW-SC52-1-2	LDW-SC52-2-4	LDW-SC53-0-2	LDW-SC53-2-4	LDW-SC54-0-2	LDW-SC54-2-4	LDW-SC55-0-1	LDW-SC55-1-2	LDW-SC55-2-3	LDW-SC56-0-2	LDW-SC56-2-4
trans-Nonachlor	µg/kg dw	na	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na	na
Total chlordane	µg/kg dw	na	na	na	na	na	na	2.0 UJ	3.8 U	2.0 U	2.0 U	na	na	na	na	na
Grain size																
Fractional % phi >-1 (>2000 µm)	% dw	23.4	15.9	na	1.2	1.2	0.3	na	na	0.2	0.1	*0.2*	1.2	0.1	29.7	6.5
Fractional % phi -1-0 (1000-2000 µm)	% dw	2.6	2.5	na	1.1	1.1	1.7	0.1	0.1	0.7	0.6	*0.6*	3.6	0.4	8.7	22.5
Fractional % phi 0-1 (500-1000 µm)	% dw	6.9	12.2	na	1.5	1.5	22.8	0.1	0.9	1.1	1.1	*1.4*	12.4	4.0	24.5	22.1
Fractional % phi 1-2 (250-500 µm)	% dw	23.2	23.3	na	3.7	3.7	63.8	0.8	0.6	3.8	2.0	*3*	18.2	17.8	17.3	20.9
Fractional % phi 2-3 (125-250 µm)	% dw	20.2	9.3	na	2.0	2.0	8.7	0.7	0.7	6.7	6.4	*17.4*	22.8	38.5	9.1	16.0
Fractional % phi 3-4 (62.5-125 µm)	% dw	6.3	5.7	na	10.4	10.4	1.0	1.1	1.1	17.6	18.7	*30.2*	22.2	26.8	4.2	5.7
Fractional % phi 4-5 (31.2-62.5 µm)	% dw	5.3	6.4	na	13.6	13.6	1.7	3.3	4.1	21.2	24.4	*19.7*	8.6	6.6	1.8	2.4
Fractional % phi 5-6 (15.6-31.2 µm)	% dw	4.8	7.5	na	21.2	21.2	na	33.7	41.1	20.5	16.0	*11.2*	2.4	2.0	1.2	1.4
Fractional % phi 6-7 (7.8-15.6 µm)	% dw	1.7	1.9	na	19.3	19.3	na	37.7	32.8	15.4	15.2	*5.6*	3.6	1.1	1.0	0.8
Fractional % phi 7-8 (3.9-7.8 µm)	% dw	2.1	9.1	na	10.6	10.6	na	8.1	6.7	6.0	7.5	*3.8*	1.4	1.0	0.9	0.5
Fractional % phi 8-9 (1.95-3.9 µm)	% dw	1.2	2.1	na	3.7	3.7	na	3.8	3.3	2.5	3.7	*2.3*	1.1	0.5	0.6	0.4
Fractional % phi 9-10 (0.98-1.95 µm)	% dw	0.8	1.4	na	3.8	3.8	na	2.7	2.1	0.7	1.1	*1.5*	0.8	0.6	0.3	0.2
Fractional % phi 10+ (<0.98 µm)	% dw	1.5	2.8	na	7.9	7.9	na	7.9	6.4	3.4	3.2	*3.3*	1.5	0.7	0.7	0.4
Rocks (total calc'd)	% dw	23.4	15.9	na	1.2	1.2	0.3	na	na	0.2	0.1	*0.2*	1.2	0.1	29.7	6.5
Sand (total calc'd)	% dw	59.2	53.0	na	18.7	18.7	98.0	2.8	3.4	29.9	28.8	*53*	79.2	87.5	63.8	87.2
Silt (total calc'd)	% dw	13.9	24.9	na	64.7	64.7	1.7	82.8	84.7	63.1	63.1	*40.3*	16.0	10.7	4.9	5.1
Clay (total calc'd)	% dw	3.5	6.3	na	15.4	15.4	na	14.4	11.8	6.6	8.0	*7.1*	3.4	1.8	1.6	1.0
Fines (percent silt+clay)	% dw	17.4	31.2	na	80.1	80.1	1.7	97.2	96.5	69.7	71.1	*47.4*	19.4	12.5	6.5	6.1

A-1, cont. Concentrations of all analytes and results for geotechnical analyses in LDW subsurface sediment samples, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS		LDW-SC51			LDW-SC52			LDW-SC53		LDW-SC54		LDW-SC55			LDW-SC56	
ANALYTE	UNIT	LDW-SC51-0-2	LDW-SC51-2-3.8	LDW-SC51-3.8-5.8	LDW-SC52-0-1	LDW-SC52-1-2	LDW-SC52-2-4	LDW-SC53-0-2	LDW-SC53-2-4	LDW-SC54-0-2	LDW-SC54-2-4	LDW-SC55-0-1	LDW-SC55-1-2	LDW-SC55-2-3	LDW-SC56-0-2	LDW-SC56-2-4
Conventional parameters																
Total organic carbon (TOC)	% dw	1.47	1.73	0.615	2.37	2.73	0.375	*3.07*	2.89	1.51	1.55	1.50	0.698	0.645	*1.67*	0.303
Total solids	% ww	72.30	70.90	82.10	59.70	61.00	80.00	*46.38*	47.20	71.50	83.60	*57.35*	76.60	78.90	*80.2*	84.60
Geotechnical																
Bulk density (dry)	pcf	77.0	72.6	na	na	63.0	100	42.2	41.2	47.8	63.0	98.0	102.5	86.5	95.6	na
Bulk density (wet)	pcf	109.6	105.0	na	na	99.7	123.9	88.6	87.0	82.8	105.8	128.6	126.5	117.7	117.8	na
Moisture	% dw	42.42	44.57	na	na	58.16	23.95	110.1	111.0	73.40	68.04	31.22	23.41	36.00	23.17	na
Specific gravity	g/cc	2.73	2.63	na	na	2.60	2.70	2.63	2.60	2.62	2.63	2.69	2.70	2.67	2.73	na
Atterberg limits classification	none	non-plastic	non-plastic	na	na	OH	non-plastic	OH	OH	non-plastic	OH	non-plastic	non-plastic	non-plastic	non-plastic	na
Liquid limit	% dw	na	na	na	na	54.9	na	93.3	92.9	na	58.7	na	na	na	na	na
Plastic limit	% dw	na	na	na	na	41.1	na	60.2	63.4	na	37.1	na	na	na	na	na
Plasticity index	% dw	na	na	na	na	13.8	na	33.1	29.5	na	21.6	na	na	na	na	na
Porosity	S.U.	0.55	0.56	na	na	0.61	0.41	0.74	0.75	0.71	0.62	0.42	0.39	0.48	0.44	na

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Methods for calculating total benzofluoranthenes, total LPAHs, total HPAHs, total PAHs, total PCBs, total DDTs, and total chlordane are presented in Appendix C.

Totals were calculated for each sediment grain size category using the following grain size ranges: rock – all fractions >2,000 µm; sand – all fractions between 63 and 2,000 µm; silt – all fractions between 3.9 and 63 µm; and clay – all fractions <3.9 µm.

A-2. CONCENTRATIONS OF ALL ANALYTES IN LDW SUBSURFACE SEDIMENT SAMPLES, 0.5-FT SAMPLE INTERVALS

Table A-2a. 0.5-ft intervals, samples SC1 and SC6

0.5-FT INTERVALS		LDW-SC1				LDW-SC6								
ANALYTE	UNIT	LDW-SC1-0-0.5	LDW-SC1-0.5-1	LDW-SC1-1-1.5	LDW-SC1-1.5-2	LDW-SC6-0-0.5	LDW-SC6-0.5-1	LDW-SC6-1-1.5	LDW-SC6-1.5-2	LDW-SC6-2-2.5	LDW-SC6-2.5-3	LDW-SC6-3-3.5	LDW-SC6-3.5-4	LDW-SC6-4-4.5
Metals and trace elements														
Lead	mg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na
Mercury	mg/kg dw	*0.27*	0.33	1.27	1.22	na	na	na	na	na	na	na	na	na
PAHs														
1-Methylnaphthalene	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
2-Methylnaphthalene	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Acenaphthene	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Acenaphthylene	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg dw	110	43 J	100	79	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg dw	310	140	180	160	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg dw	410	240	300	330	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg dw	800	410	540	470	na	na	na	na	na	na	na	na	na
Benzo(g,h,i)perylene	µg/kg dw	240	180	120	140	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg dw	480	240	250	380	na	na	na	na	na	na	na	na	na
Total benzofluoranthenes	µg/kg dw	1,280	650	790	850	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg dw	680	240	300	290	na	na	na	na	na	na	na	na	na
Dibenzo(a,h)anthracene	µg/kg dw	50 J	27 J	23	39	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg dw	770	260	170	230	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg dw	240	160	120	160	na	na	na	na	na	na	na	na	na
Naphthalene	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg dw	300	130	120	110	na	na	na	na	na	na	na	na	na

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC1				LDW-SC6								
ANALYTE	UNIT	LDW-SC1-0-0.5	LDW-SC1-0.5-1	LDW-SC1-1-1.5	LDW-SC1-1.5-2	LDW-SC6-0-0.5	LDW-SC6-0.5-1	LDW-SC6-1-1.5	LDW-SC6-1.5-2	LDW-SC6-2-2.5	LDW-SC6-2.5-3	LDW-SC6-3-3.5	LDW-SC6-3.5-4	LDW-SC6-4-4.5
Pyrene	µg/kg dw	830	670	740	830	na	na	na	na	na	na	na	na	na
Total HPAH	µg/kg dw	4,810 J	2,570 J	2,740	3,030	na	na	na	na	na	na	na	na	na
Total LPAH	µg/kg dw	410	170 J	220	190	na	na	na	na	na	na	na	na	na
Carcinogenic PAHs	µg/kg dw	620 J	350 J	420	470	na	na	na	na	na	na	na	na	na
Total PAH	µg/kg dw	5,220 J	2,740 J	2,960	3,220	na	na	na	na	na	na	na	na	na
Phthalates														
Bis(2-ethylhexyl)phthalate	µg/kg dw	700	400	2,400	1,000	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg dw	46 J	38	98 J	93 J	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg dw	62 U	62 U	31 J	42 J	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Other SVOCs														
1,2,4-Trichlorobenzene	µg/kg dw	6.2 U	6.2 UJ	20	14	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg dw	6.2 U	6.2 U	13	9.2	na	na	na	na	na	na	na	na	na
1,3-Dichlorobenzene	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
1,4-Dichlorobenzene	µg/kg dw	6.2 U	6.2 U	9.2	6.8	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg dw	6.2 U	6.2 U	6.1 U	6.2 U	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg dw	620 U	620 U	610 U	620 U	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
2-Methylphenol	µg/kg dw	6.2 U	6.2 U	9.2	14	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC1				LDW-SC6								
ANALYTE	UNIT	LDW-SC1-0-0.5	LDW-SC1-0.5-1	LDW-SC1-1-1.5	LDW-SC1-1.5-2	LDW-SC6-0-0.5	LDW-SC6-0.5-1	LDW-SC6-1-1.5	LDW-SC6-1.5-2	LDW-SC6-2-2.5	LDW-SC6-2.5-3	LDW-SC6-3-3.5	LDW-SC6-3.5-4	LDW-SC6-4-4.5
3-Nitroaniline	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
4,6-Dinitro-o-cresol	µg/kg dw	620 U	620 U	610 U	620 U	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
4-Chloro-3-methylphenol	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg dw	310 UJ	310 UJ	310 UJ	310 UJ	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
4-Methylphenol	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
Aniline	µg/kg dw	62 UJ	62 UJ	61 UJ	62 UJ	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg dw	620 U	620 U	610 U	620 U	na	na	na	na	na	na	na	na	na
Benzyl alcohol	µg/kg dw	31 U	31 U	31 U	31 U	na	na	na	na	na	na	na	na	na
bis(2-chloroethoxy)methane	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
bis(2-chloroethyl)ether	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
bis(2-chloroisopropyl)ether	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg dw	6.2 U	6.2 U	6.1 U	6.2 U	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg dw	6.2 U	6.2 U	6.1 U	6.2 U	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg dw	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Isophorone	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg dw	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
N-Nitrosodimethylamine	µg/kg dw	31 U	31 U	31 U	31 U	na	na	na	na	na	na	na	na	na
N-Nitroso-di-n-propylamine	µg/kg dw	31 U	31 UJ	31 U	31 U	na	na	na	na	na	na	na	na	na
N-Nitrosodiphenylamine	µg/kg dw	6.2 U	6.2 U	6.1 U	6.2 U	na	na	na	na	na	na	na	na	na
Pentachlorophenol	µg/kg dw	14 J	31 U	31 U	31 U	na	na	na	na	na	na	na	na	na
Phenol	µg/kg dw	70 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Polychlorinated biphenyls														
Aroclor-1016	µg/kg dw	20 U	40 U	390 U	390 U	20 U	7.9 U	7.9 U	7.9 U	20 U	19 U	78 U	200 U	360 U
Aroclor-1221	µg/kg dw	20 U	40 U	390 U	390 U	20 U	7.9 U	7.9 U	7.9 U	20 U	19 U	78 U	200 U	360 U

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC1				LDW-SC6								
ANALYTE	UNIT	LDW-SC1-0-0.5	LDW-SC1-0.5-1	LDW-SC1-1-1.5	LDW-SC1-1.5-2	LDW-SC6-0-0.5	LDW-SC6-0.5-1	LDW-SC6-1-1.5	LDW-SC6-1.5-2	LDW-SC6-2-2.5	LDW-SC6-2.5-3	LDW-SC6-3-3.5	LDW-SC6-3.5-4	LDW-SC6-4-4.5
Aroclor-1232	µg/kg dw	20 U	40 U	390 U	390 U	20 U	7.9 U	7.9 U	7.9 U	20 U	19 U	78 U	200 U	360 U
Aroclor-1242	µg/kg dw	20 U	40 U	390 U	390 U	20 U	7.9 U	7.9 U	7.9 U	20 U	19 U	78 U	200 U	360 U
Aroclor-1248	µg/kg dw	20 U	120 U	2,100	1,400	39 U	28 U	28 U	24 U	49 U	110	200 U	650	890 U
Aroclor-1254	µg/kg dw	47	210	3,300	1,700	91	54	55	51	90	130	330	700	1,900
Aroclor-1260	µg/kg dw	38	140	1,300	1,200	76	43	46	43	86	110	160	240	740
Total PCBs	µg/kg dw	85	350	6,700	4,300	167	97	101	94	176	350	490	1,590	2,600
Conventional parameters														
Total organic carbon (TOC)	% dw	2.17	1.97	*1.95*	2.36	2.40	1.91	0.894	1.87	2.25	1.37	1.58	0.814	2.23
Total solids	% ww	52.80	59.10	*50.50*	44.80	49.90	52.60	51.30	56.10	62.30	59.40	58.50	61.10	55.50

Table A-2b. 0.5-ft intervals, samples SC12 and SC13

0.5-FT INTERVALS		LDW-SC12								LDW-SC13						
ANALYTE	UNIT	LDW-SC12-0-0.5	LDW-SC12-0.5-1	LDW-SC12-1-1.5	LDW-SC12-1.5-2	LDW-SC12-2-2.5	LDW-SC12-2.5-3	LDW-SC12-3-3.5	LDW-SC12-3.5-4	LDW-SC13-0-0.5	LDW-SC13-0.5-1	LDW-SC13-1-1.5	LDW-SC13-1.5-2	LDW-SC13-2-2.5	LDW-SC13-2.5-3	LDW-SC13-3-3.5
Metals and trace elements																
Lead	mg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Mercury	mg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PAHs																
1-Methylnaphthalene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylnaphthalene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenaphthene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenaphthylene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,i)perylene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total benzofluoranthenes	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzo(a,h)anthracene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Naphthalene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC12								LDW-SC13						
ANALYTE	UNIT	LDW-SC12-0-0.5	LDW-SC12-0.5-1	LDW-SC12-1-1.5	LDW-SC12-1.5-2	LDW-SC12-2-2.5	LDW-SC12-2.5-3	LDW-SC12-3-3.5	LDW-SC12-3.5-4	LDW-SC13-0-0.5	LDW-SC13-0.5-1	LDW-SC13-1-1.5	LDW-SC13-1.5-2	LDW-SC13-2-2.5	LDW-SC13-2.5-3	LDW-SC13-3-3.5
Phenanthrene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total HPAH	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total LPAH	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Carcinogenic PAHs	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total PAH	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phthalates																
Bis(2-ethylhexyl)phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other SVOCs																
1,2,4-Trichlorobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3-Dichlorobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4-Dichlorobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC12								LDW-SC13						
ANALYTE	UNIT	LDW-SC12-0-0.5	LDW-SC12-0.5-1	LDW-SC12-1-1.5	LDW-SC12-1.5-2	LDW-SC12-2-2.5	LDW-SC12-2.5-3	LDW-SC12-3-3.5	LDW-SC12-3.5-4	LDW-SC13-0-0.5	LDW-SC13-0.5-1	LDW-SC13-1-1.5	LDW-SC13-1.5-2	LDW-SC13-2-2.5	LDW-SC13-2.5-3	LDW-SC13-3-3.5
2-Chlorophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitroaniline	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4,6-Dinitro-o-cresol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloro-3-methylphenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Methylphenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Aniline	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzyl alcohol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
bis(2-chloroethoxy)methane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
bis(2-chloroethyl)ether	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
bis(2-chloroisopropyl)ether	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Isophorone	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC12								LDW-SC13						
ANALYTE	UNIT	LDW-SC12-0-0.5	LDW-SC12-0.5-1	LDW-SC12-1-1.5	LDW-SC12-1.5-2	LDW-SC12-2-2.5	LDW-SC12-2.5-3	LDW-SC12-3-3.5	LDW-SC12-3.5-4	LDW-SC13-0-0.5	LDW-SC13-0.5-1	LDW-SC13-1-1.5	LDW-SC13-1.5-2	LDW-SC13-2-2.5	LDW-SC13-2.5-3	LDW-SC13-3-3.5
Nitrobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-Nitrosodimethylamine	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-Nitroso-di-n-propylamine	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-Nitrosodiphenylamine	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pentachlorophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Polychlorinated biphenyls																
Aroclor-1016	µg/kg dw	4.0 U	7.8 U	20 U	39 U	200 U	39 U	20 U	99 U	79 U	80 U	39 U	39 U	40 U	3.9 U	3.8 U
Aroclor-1221	µg/kg dw	4.0 U	7.8 U	20 U	39 U	200 U	39 U	20 U	99 U	79 U	80 U	39 U	39 U	40 U	3.9 U	3.8 U
Aroclor-1232	µg/kg dw	4.0 U	7.8 U	20 U	39 U	200 U	39 U	20 U	99 U	79 U	80 U	39 U	39 U	40 U	3.9 U	3.8 U
Aroclor-1242	µg/kg dw	4.0 U	7.8 U	20 U	39 U	200 U	39 U	20 U	99 U	79 U	80 U	39 U	39 U	40 U	3.9 U	3.8 U
Aroclor-1248	µg/kg dw	12 U	24 U	40 U	140 U	590 U	230	58 U	250 U	160 U	80 U	39 U	39 U	40 U	3.9 U	3.8 U
Aroclor-1254	µg/kg dw	39	58	72	200	1,300	270	92	510	320	250	150	120	40 U	3.9 U	3.8 U
Aroclor-1260	µg/kg dw	25	48	62	120	740 J	130	46	280	140	220	130	240	120	3.9 U	3.8 U
Total PCBs	µg/kg dw	64	106	134	320	2,000 J	630	138	790	460	470	280	360	120	3.9 U	3.8 U
Conventional parameters																
Total organic carbon (TOC)	% dw	*1.34*	1.98	1.85	1.98	2.24	1.67	1.57	1.61	1.51	*3.28*	2.55	3.26	3.45	1.84	1.55
Total solids	% ww	*54.40*	44.50	45.00	46.20	48.20	56.50	55.00	50.80	77.40	*67.03*	63.50	50.30	49.10	60.60	72.30

Table A-2c. 0.5-ft intervals, samples SC23 and SC27

0.5-FT INTERVALS		LDW-SC23								LDW-SC27								
ANALYTE	UNIT	LDW-SC23-0-0.5	LDW-SC23-0.5-1	LDW-SC23-1-1.5	LDW-SC23-1.5-2	LDW-SC23-2-2.5	LDW-SC23-2.5-3	LDW-SC23-3-3.5	LDW-SC23-3.5-4	LDW-SC27-0-0.5	LDW-SC27-0.5-1	LDW-SC27-1-1.5	LDW-SC27-1.5-2	LDW-SC27-2-2.5	LDW-SC27-2.5-3	LDW-SC27-3-3.5	LDW-SC27-3.5-4	LDW-SC27-4-4.5
Metals and trace elements																		
Lead	mg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Mercury	mg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PAHs																		
1-Methylnaphthalene	µg/kg dw	61 U	62 U	61 U	62 U	70	62 U	170	150	na	na	na	na	na	na	na	na	na
2-Chloronaphthalene	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
2-Methylnaphthalene	µg/kg dw	61 U	62 U	61 U	62 U	89	62 U	120	61 U	na	na	na	na	na	na	na	na	na
Acenaphthene	µg/kg dw	61 U	62 U	40 J	48 J	150	570	2,100	1,500	na	na	na	na	na	na	na	na	na
Acenaphthylene	µg/kg dw	33 J	62 U	61 U	62 U	41 J	62 U	130	76	na	na	na	na	na	na	na	na	na
Anthracene	µg/kg dw	140	86	120	87	480	170	8,800	1,100	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	µg/kg dw	440	280	310	340	1,100	220	7,100	2,700	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	µg/kg dw	400	320	410	360	820	110	3,000	1,200	na	na	na	na	na	na	na	na	na
Benzo(b)fluoranthene	µg/kg dw	600	530	540	400	800	140	3,900	1,900	na	na	na	na	na	na	na	na	na
Benzo(g,h,i)perylene	µg/kg dw	220	180	200	190	420	46 J	730	270	na	na	na	na	na	na	na	na	na
Benzo(k)fluoranthene	µg/kg dw	400	270	390	370	730	120	2,500	1,200	na	na	na	na	na	na	na	na	na
Total benzofluoranthenes	µg/kg dw	1,000	800	930	770	1,530	260	6,400	3,100	na	na	na	na	na	na	na	na	na
Chrysene	µg/kg dw	690	480	500	500	1,100	230	7,800	3,100	na	na	na	na	na	na	na	na	na
Dibenzo(a,h)anthracene	µg/kg dw	32 J	24 J	29 J	32 J	80	14	180	80	na	na	na	na	na	na	na	na	na
Dibenzofuran	µg/kg dw	61 U	62 U	61 U	62 U	120	110	650	320	na	na	na	na	na	na	na	na	na
Fluoranthene	µg/kg dw	920	410	580	750	2,400	1,200	24,000	10,000	na	na	na	na	na	na	na	na	na
Fluorene	µg/kg dw	61 U	62 U	47 J	44 J	190	230	1,800	460	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	µg/kg dw	220	180	210	210	400	49 J	930	370	na	na	na	na	na	na	na	na	na
Naphthalene	µg/kg dw	61 U	62 U	61 U	62 U	110	62 U	200	55 J	na	na	na	na	na	na	na	na	na
Phenanthrene	µg/kg dw	210	140	380	480	1,700	380	12,000	1,300	na	na	na	na	na	na	na	na	na

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC23								LDW-SC27								
ANALYTE	UNIT	LDW-SC23-0-0.5	LDW-SC23-0.5-1	LDW-SC23-1-1.5	LDW-SC23-1.5-2	LDW-SC23-2-2.5	LDW-SC23-2.5-3	LDW-SC23-3-3.5	LDW-SC23-3.5-4	LDW-SC27-0-0.5	LDW-SC27-0.5-1	LDW-SC27-1-1.5	LDW-SC27-1.5-2	LDW-SC27-2-2.5	LDW-SC27-2.5-3	LDW-SC27-3-3.5	LDW-SC27-3.5-4	LDW-SC27-4-4.5
Pyrene	µg/kg dw	920	660	1,000	1,000	3,000	700	14,000	4,400	na	na	na	na	na	na	na	na	na
Total HPAH	µg/kg dw	4,840 J	3,330 J	4,200 J	4,200 J	10,900	2,800 J	64,000	25,000	na	na	na	na	na	na	na	na	na
Total LPAH	µg/kg dw	380 J	230	590 J	660 J	2,700 J	1,350	25,000	4,500 J	na	na	na	na	na	na	na	na	na
Carcinogenic PAHs	µg/kg dw	590 J	460 J	570 J	510 J	1,200	170 J	4,600	1,900	na	na	na	na	na	na	na	na	na
Total PAH	µg/kg dw	5,230 J	3,560 J	4,800 J	4,800 J	13,500 J	4,200 J	89,000	30,000 J	na	na	na	na	na	na	na	na	na
Phthalates																		
Bis(2-ethylhexyl)phthalate	µg/kg dw	340	420	320	110	110	68	780	380	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	µg/kg dw	40 J	38 J	30 J	10 J	8.6	8.0	32	30	na	na	na	na	na	na	na	na	na
Diethyl phthalate	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
Other SVOCs																		
1,2,4-Trichlorobenzene	µg/kg dw	6.1 U	6.2 U	6.1 U	6.2 UJ	6.2 UJ	6.2 UJ	6.2 UJ	6.1 UJ	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	µg/kg dw	6.1 U	6.2 U	6.1 U	6.2 UJ	6.2 U	6.2 U	6.2 U	6.1 U	na	na	na	na	na	na	na	na	na
1,3-Dichlorobenzene	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
1,4-Dichlorobenzene	µg/kg dw	3.7 J	6.2 U	6.1 U	6.2 UJ	6.2 U	6.2 U	6.2 U	6.1 U	na	na	na	na	na	na	na	na	na
2,4,5-Trichlorophenol	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2,4,6-Trichlorophenol	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2,4-Dichlorophenol	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg dw	6.1 U	6.2 U	6.1 U	6.2 U	6.2 UJ	6.2 UJ	9.9 J	6.1 UJ	na	na	na	na	na	na	na	na	na
2,4-Dinitrophenol	µg/kg dw	610 U	620 U	610 U	620 U	620 U	620 U	620 U	610 U	na	na	na	na	na	na	na	na	na
2,4-Dinitrotoluene	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2,6-Dinitrotoluene	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2-Chlorophenol	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
2-Methylphenol	µg/kg dw	6.1	6.2	6.1 U	9.3	8.6 J	6.2 UJ	8.7 J	6.1 J	na	na	na	na	na	na	na	na	na

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC23								LDW-SC27								
ANALYTE	UNIT	LDW-SC23-0-0.5	LDW-SC23-0.5-1	LDW-SC23-1-1.5	LDW-SC23-1.5-2	LDW-SC23-2-2.5	LDW-SC23-2.5-3	LDW-SC23-3-3.5	LDW-SC23-3.5-4	LDW-SC27-0-0.5	LDW-SC27-0.5-1	LDW-SC27-1-1.5	LDW-SC27-1.5-2	LDW-SC27-2-2.5	LDW-SC27-2.5-3	LDW-SC27-3-3.5	LDW-SC27-3.5-4	LDW-SC27-4-4.5
2-Nitroaniline	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
2-Nitrophenol	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
3,3'-Dichlorobenzidine	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
3-Nitroaniline	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
4,6-Dinitro-o-cresol	µg/kg dw	610 U	620 U	610 U	620 U	620 U	620 U	620 U	610 U	na	na	na	na	na	na	na	na	na
4-Bromophenyl phenyl ether	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
4-Chloro-3-methylphenol	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
4-Chloroaniline	µg/kg dw	310 UJ	310 UJ	310 UJ	310 UJ	310 UJ	310 UJ	310 UJ	310 UJ	na	na	na	na	na	na	na	na	na
4-Chlorophenyl phenyl ether	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
4-Methylphenol	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
4-Nitroaniline	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
4-Nitrophenol	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
Aniline	µg/kg dw	61 UJ	62 UJ	61 UJ	62 UJ	62 UJ	62 UJ	62 UJ	61 UJ	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg dw	610 U	620 U	610 U	620 U	620 U	620 U	620 U	610 U	na	na	na	na	na	na	na	na	na
Benzyl alcohol	µg/kg dw	31 U	31 U	31 U	31 UJ	31 U	31 U	34 U	31 U	na	na	na	na	na	na	na	na	na
bis(2-chloroethoxy)methane	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
bis(2-chloroethyl)ether	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
bis(2-chloroisopropyl)ether	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	µg/kg dw	6.1 U	6.2 U	6.1 U	6.2 UJ	6.2 U	6.2 U	6.2 U	6.1 U	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	µg/kg dw	6.1 U	6.2 U	6.1 U	6.2 UJ	6.2 U	6.2 U	6.2 U	6.1 U	na	na	na	na	na	na	na	na	na
Hexachlorocyclopentadiene	µg/kg dw	310 U	310 U	310 U	310 U	310 U	310 U	310 U	310 U	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
Isophorone	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
Nitrobenzene	µg/kg dw	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
N-Nitrosodimethylamine	µg/kg dw	31 U	31 U	31 U	31 UJ	31 U	31 U	31 U	31 U	na	na	na	na	na	na	na	na	na
N-Nitroso-di-n-propylamine	µg/kg dw	31 U	31 U	31 U	31 UJ	31 U	31 U	31 U	31 U	na	na	na	na	na	na	na	na	na

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC23								LDW-SC27								
ANALYTE	UNIT	LDW-SC23-0-0.5	LDW-SC23-0.5-1	LDW-SC23-1-1.5	LDW-SC23-1.5-2	LDW-SC23-2-2.5	LDW-SC23-2.5-3	LDW-SC23-3-3.5	LDW-SC23-3.5-4	LDW-SC27-0-0.5	LDW-SC27-0.5-1	LDW-SC27-1-1.5	LDW-SC27-1.5-2	LDW-SC27-2-2.5	LDW-SC27-2.5-3	LDW-SC27-3-3.5	LDW-SC27-3.5-4	LDW-SC27-4-4.5
N-Nitrosodiphenylamine	µg/kg dw	6.1 U	6.2 U	6.1 U	6.2 UJ	6.2 U	6.2 U	38 U	6.1 U	na	na	na	na	na	na	na	na	na
Pentachlorophenol	µg/kg dw	31 U	31 U	31 U	31 U	31 U	31 U	31 U	31 U	na	na	na	na	na	na	na	na	na
Phenol	µg/kg dw	400 U	65 U	61 U	62 U	62 U	62 U	62 U	61 U	na	na	na	na	na	na	na	na	na
Polychlorinated biphenyls																		
Aroclor-1016	µg/kg dw	na	na	na	na	na	na	na	na	39 U	390 U	200 U	390 U	79 U	200 U	3.9 U	7.7 U	3.9 U
Aroclor-1221	µg/kg dw	na	na	na	na	na	na	na	na	39 U	390 U	200 U	390 U	79 U	200 U	3.9 U	7.7 U	3.9 U
Aroclor-1232	µg/kg dw	na	na	na	na	na	na	na	na	39 U	390 U	200 U	390 U	79 U	200 U	3.9 U	7.7 U	3.9 U
Aroclor-1242	µg/kg dw	na	na	na	na	na	na	na	na	39 U	390 U	200 U	390 U	79 U	200 U	3.9 U	7.7 U	3.9 U
Aroclor-1248	µg/kg dw	na	na	na	na	na	na	na	na	99 U	980 U	590 U	1,200 U	79 U	200 U	3.9 U	7.7 U	3.9 U
Aroclor-1254	µg/kg dw	na	na	na	na	na	na	na	na	150	1,400	960	2,100	140	490	3.9 U	10	3.9 U
Aroclor-1260	µg/kg dw	na	na	na	na	na	na	na	na	100	550	550	1,100	150	350	3.9 U	50	3.9 U
Total PCBs	µg/kg dw	na	na	na	na	na	na	na	na	250	2,000	1,510	3,200	290	840	3.9 U	60	3.9 U
Conventional parameters																		
Total organic carbon (TOC)	% dw	2.05	2.17	1.76	1.60	1.78	1.39	1.30	2.29	1.54	1.80	1.82	1.22	2.27	2.14	1.16	1.80	2.00
Total solids	% ww	49.70	53.30	54.80	62.20	55.30	51.10	51.70	51.40	55.80	54.20	50.70	52.80	54.70	55.60	61.80	61.80	68.10

Table A-2d. 0.5-ft intervals, samples SC33, SC44, and SC51

0.5-FT INTERVALS		LDW-SC33						SC44							LDW-SC51			
ANALYTE	UNIT	LDW-SC33-0-0.5	LDW-SC33-0.5-1	LDW-SC33-1-1.5	LDW-SC33-1.5-2	LDW-SC33-2-2.5	LDW-SC33-2.5-3	LDW-SC44-0-0.5	LDW-SC44-0.5-1	LDW-SC44-1-1.5	LDW-SC44-1.5-2	LDW-SC44-2-2.5	LDW-SC44-2.5-3	LDW-SC44-3-3.5	LDW-SC51-0-0.5	LDW-SC51-0.5-1	LDW-SC51-1-1.5	LDW-SC51-1.5-2
Metals and trace elements																		
Lead	mg/kg dw	*72*	177	117	84	21	45	na	na	na	na	na	na	na	na	na	na	na
Mercury	mg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PAHs																		
1-Methylnaphthalene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
2-Chloronaphthalene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
2-Methylnaphthalene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	79	60 U	62 U	62 U
Acenaphthene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	350	180	250	84
Acenaphthylene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
Anthracene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	540	160	59 J	42 J
Benzo(a)anthracene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	1,600	410	130	71
Benzo(a)pyrene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	1,600	390	50 J	42 J
Benzo(b)fluoranthene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	1,600	410	87	50 J
Benzo(g,h,i)perylene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	590	130	62 U	62 U
Benzo(k)fluoranthene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	1,400	360	54 J	52 J
Total benzofluoranthenes	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	3,000	770	141 J	102 J
Chrysene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	1,900	490	120	67
Dibenzo(a,h)anthracene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	160	38	4.3 J	3.7 J
Dibenzofuran	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	230	89	130	92
Fluoranthene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	4,000	1,200	720	730
Fluorene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	320	110	62 U	62 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	690	160	62 U	62 U
Naphthalene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	230	54 J	62 U	62 U
Phenanthrene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	2,300	840	120	97
Pyrene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	2,600	900	400	360
Total HPAH	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	16,100	4,500	1,570 J	1,380 J

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC33						SC44							LDW-SC51			
ANALYTE	UNIT	LDW-SC33-0-0.5	LDW-SC33-0.5-1	LDW-SC33-1-1.5	LDW-SC33-1.5-2	LDW-SC33-2-2.5	LDW-SC33-2.5-3	LDW-SC44-0-0.5	LDW-SC44-0.5-1	LDW-SC44-1-1.5	LDW-SC44-1.5-2	LDW-SC44-2-2.5	LDW-SC44-2.5-3	LDW-SC44-3-3.5	LDW-SC51-0-0.5	LDW-SC51-0.5-1	LDW-SC51-1-1.5	LDW-SC51-1.5-2
Total LPAH	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	3,700	1,340 J	430 J	223 J
Carcinogenic PAHs	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	2,200	540	83 J	65 J
Total PAH	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	19,900	5,800 J	1,990 J	1,600 J
Phthalates																		
Bis(2-ethylhexyl)phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	970	1,800	62 U	75
Butyl benzyl phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	43	35	10	17
Diethyl phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
Dimethyl phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
Di-n-butyl phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	44 J	51 J	62 U	62 U
Di-n-octyl phthalate	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
Other SVOCs																		
1,2,4-Trichlorobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	6.1 UJ	6.0 UJ	6.2 UJ	6.2 UJ
1,2-Dichlorobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	6.1 U	4.8 J	6.2 U	6.2
1,3-Dichlorobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
1,4-Dichlorobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	6.1 U	6.0 U	6.2 U	8.7
2,4,5-Trichlorophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
2,4,6-Trichlorophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
2,4-Dichlorophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
2,4-Dimethylphenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	6.1 UJ	6.0 UJ	6.2 UJ	6.2 UJ
2,4-Dinitrophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	610 U	600 U	620 U	620 U
2,4-Dinitrotoluene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
2,6-Dinitrotoluene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
2-Chlorophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
2-Methylphenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	21 J	6.0 UJ	6.2 UJ	6.2 UJ
2-Nitroaniline	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
2-Nitrophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
3,3'-Dichlorobenzidine	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
3-Nitroaniline	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
4,6-Dinitro-o-cresol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	610 U	600 U	620 U	620 U

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC33						SC44							LDW-SC51			
ANALYTE	UNIT	LDW-SC33-0-0.5	LDW-SC33-0.5-1	LDW-SC33-1-1.5	LDW-SC33-1.5-2	LDW-SC33-2-2.5	LDW-SC33-2.5-3	LDW-SC44-0-0.5	LDW-SC44-0.5-1	LDW-SC44-1-1.5	LDW-SC44-1.5-2	LDW-SC44-2-2.5	LDW-SC44-2.5-3	LDW-SC44-3-3.5	LDW-SC51-0-0.5	LDW-SC51-0.5-1	LDW-SC51-1-1.5	LDW-SC51-1.5-2
4-Bromophenyl phenyl ether	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
4-Chloro-3-methylphenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
4-Chloroaniline	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 UJ	300 UJ	310 UJ	310 UJ
4-Chlorophenyl phenyl ether	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
4-Methylphenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
4-Nitroaniline	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
4-Nitrophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
Aniline	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 UJ	60 UJ	62 UJ	62 UJ
Benzoic acid	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	610 U	600 U	620 U	620 U
Benzyl alcohol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	180	30 U	31 U	31 U
bis(2-chloroethoxy)methane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
bis(2-chloroethyl)ether	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
bis(2-chloroisopropyl)ether	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
Hexachlorobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	6.1 U	6.0 U	6.2 U	6.2 U
Hexachlorobutadiene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	6.1 U	6.0 U	6.2 U	6.2 U
Hexachlorocyclopentadiene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	300 U	300 U	310 U	310 U
Hexachloroethane	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
Isophorone	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
Nitrobenzene	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	61 U	60 U	62 U	62 U
N-Nitrosodimethylamine	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	30 U	30 U	31 U	31 U
N-Nitroso-di-n-propylamine	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	30 U	30 U	31 U	31 U
N-Nitrosodiphenylamine	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	6.1 U	6.0 U	6.2 U	6.2 U
Pentachlorophenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	30 U	30 U	31 U	31 U
Phenol	µg/kg dw	na	na	na	na	na	na	na	na	na	na	na	na	na	96 U	60 U	62 U	62 U
Polychlorinated biphenyls																		
Aroclor-1016	µg/kg dw	39 U	98 U	390 U	180 U	20 U	98 U	20 U	170 U	20 U	19 U	39 U	40 U	4.0 U	na	na	na	na
Aroclor-1221	µg/kg dw	39 U	98 U	390 U	180 U	20 U	98 U	20 U	170 U	20 U	19 U	39 U	40 U	4.0 U	na	na	na	na
Aroclor-1232	µg/kg dw	39 U	98 U	390 U	180 U	20 U	98 U	20 U	170 U	20 U	19 U	39 U	40 U	4.0 U	na	na	na	na
Aroclor-1242	µg/kg dw	180	390	2,400	180 U	20 U	98 U	20 U	170 U	20 U	19 U	39 U	40 U	4.0 U	na	na	na	na

A-2, cont. Concentrations of all analytes in LDW subsurface sediment samples, 0.5-ft sample intervals

0.5-FT INTERVALS		LDW-SC33						SC44							LDW-SC51			
ANALYTE	UNIT	LDW-SC33-0-0.5	LDW-SC33-0.5-1	LDW-SC33-1-1.5	LDW-SC33-1.5-2	LDW-SC33-2-2.5	LDW-SC33-2.5-3	LDW-SC44-0-0.5	LDW-SC44-0.5-1	LDW-SC44-1-1.5	LDW-SC44-1.5-2	LDW-SC44-2-2.5	LDW-SC44-2.5-3	LDW-SC44-3-3.5	LDW-SC51-0-0.5	LDW-SC51-0.5-1	LDW-SC51-1-1.5	LDW-SC51-1.5-2
Aroclor-1248	µg/kg dw	39 U	98 U	390 U	740	49 U	150 U	39 U	170 U	39 U	19 U	39 U	40 U	4.0 U	na	na	na	na
Aroclor-1254	µg/kg dw	140	240	1,400	1,000	120	530	180	580	100	70	87	40 U	4.0 U	na	na	na	na
Aroclor-1260	µg/kg dw	170	160	850	790 J	94	410	79	300 J	99	70	180	150	4.0 U	na	na	na	na
Total PCBs	µg/kg dw	490	790	4,700	2,500 J	210	940	260	880 J	200	140	270	150	4.0 U	na	na	na	na
Conventional parameters																		
Total organic carbon (TOC)	% dw	1.76	2.14	2.53	2.42	1.35	1.98	*1.68*	1.68	1.65	1.93	1.94	1.68	1.52	1.61	1.64	0.473	0.643
Total solids	% ww	59.30	54.00	55.30	53.50	57.60	55.70	*56.90*	58.10	61.10	60.20	64.00	63.00	69.20	68.60	80.40	80.70	79.00

A-3. CONCENTRATIONS OF DIOXINS/FURANS IN LDW SUBSURFACE SEDIMENT SAMPLES

Table A-3a. Samples SC19, SC20, SC26, and SC28

ANALYTE	UNIT	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin	ng/kg dw	0.725	0.521	0.696	1.88	0.496	*0.890 J*	*0.324*	0.485	0.524	0.829	3.36	0.636	0.524	0.551
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin	ng/kg dw	2.80	2.01	2.64	3.78	1.15	*3.61*	*1.07*	1.90	1.77	2.69	10.5	2.05	1.71	1.81
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin	ng/kg dw	4.14	3.68	3.65	6.08	1.53	*7.19 J*	*0.700 J*	2.83	2.87	3.90	11.2	3.39	2.51	2.70
1,2,3,6,7,8-Hexchlorodibenzo-*p*-dioxin	ng/kg dw	24.2	19.9	22.6	37.7	23.4	*169*	*4.62*	16.9	14.1	24.4	184	21.8	17.5	18.7
1,2,3,7,8,9-Hexchlorodibenzo-*p*-dioxin	ng/kg dw	14.9	14.0	13.2	18.6	6.53	*23.7*	*2.24*	10.5	9.44	13.5	52.3	11.4	9.85	10.1
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	ng/kg dw	700	740	671	924	729	*4,930*	*72.4*	486	393	732	5,930	638	513	496
Octachlorodibenzo-*p*-dioxin	ng/kg dw	6,420	6,840	6,040	8,220	6,090	*36,300*	*453*	4,540	3,450	7,140	62,000	6,770	3,710	5,480
2,3,7,8- Tetrachlorodibenzofuran	ng/kg dw	2.21	1.41	1.58	6.09	1.26 U	*4.02*	*1.44*	1.60	1.16	1.66	3.32	1.80	1.26	1.31
1,2,3,7,8-Pentachlorodibenzofuran	ng/kg dw	1.76	1.28	1.35	4.40	2.47	*18.1*	*1.19*	1.51	1.32	1.73	3.24	1.37	1.16	1.56
2,3,4,7,8-Pentachlorodibenzofuran	ng/kg dw	4.59	2.80	3.30	17.6	7.65	*61.8*	*2.74*	3.46	2.67	3.94	5.92	3.68	2.47	5.25
1,2,3,4,7,8-Hexachlorodibenzofuran	ng/kg dw	18.8	13.0	13.9	39.3	52.1	*467*	*2.88*	11.7	9.12	15.9	40.6	14.1	10.5	26.6
1,2,3,6,7,8- Hexachlorodibenzofuran	ng/kg dw	5.25	3.81	4.24	12.1	9.78	*76.0*	*2.71*	3.56	2.99	4.50	12.7	3.84	3.03	5.78
1,2,3,7,8,9- Hexachlorodibenzofuran	ng/kg dw	0.421 J	0.342 J	0.341 J	0.545 J	3.02 U	*8.02*	*0.128 J*	0.226 J	0.283 J	0.361 J	0.983 J	0.436 J	0.537 U	0.413 J
2,3,4,6,7,8- Hexachlorodibenzofuran	ng/kg dw	3.86	2.57	3.26	6.29	4.87	*28.2*	*2.99*	2.62	2.23	3.51	9.77	3.01	2.12	3.10
1,2,3,4,6,7,8- Heptachlorodibenzofuran	ng/kg dw	129	110	115	273	314	*2,490*	*65.0*	106	63.6	118	873	143	73.8	87.8
1,2,3,4,7,8,9- Heptachlorodibenzofuran	ng/kg dw	11.7	8.85	10.1	24.8	33.0	*299*	*1.88*	9.01	5.67	11.0	63.4	12.1	6.35	8.85
Octachlorodibenzofuran	ng/kg dw	388	444	421	1,050	1,410	*13,500*	*148*	347	176	393	4,420	517	237	219
Dioxin/furan TEQ[a]	ng/kg dw	22.8 J	20.1 J	20.5 J	38.7 J	27.1 J	*194 J*	*5.60 J*	15.9 J	13.1 J	22.4 J	136 J	19.9 J	14.8	18.5 J

[a] The method for calculating TEQ is presented in Appendix C.

Table A-3b. Samples SC29, SC39, SC40, and SC41

ANALYTE	UNIT	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC29-2-3-6	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC40-0-1-3	LDW-SC40-1-3-2	LDW-SC40-2-4	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin	ng/kg dw	0.325	0.0530 U	*0.0440 U*	0.754	0.408	0.920	0.398	0.0467 U	*0.302*	0.535	0.454 U	0.586
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin	ng/kg dw	0.883 J	0.0640 J	*0.0440 U*	1.44	2.84	2.64	1.01	0.0850 J	*0.0471 U*	1.78	1.65	1.99
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin	ng/kg dw	1.40	0.106 U	*0.0440 U*	2.57	5.55	2.80	1.43	0.171 J	*0.0471 U*	3.03	2.74	2.98
1,2,3,6,7,8-Hexchlorodibenzo-*p*-dioxin	ng/kg dw	44.5	0.891	*0.103 J*	8.34	15.7	13.3	6.56	0.430 J	*0.0471 U*	17.3	14.8	16.0
1,2,3,7,8,9-Hexchlorodibenzo-*p*-dioxin	ng/kg dw	6.98	0.331 J	*0.0660 U*	7.60	15.1	10.9	5.28	0.471 J	*0.0471 U*	9.39	8.56	10.8
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	ng/kg dw	1,270	31.1	*2.56*	209	339	265	186	12.9	*0.307 U*	430	447	454
Octachlorodibenzo-*p*-dioxin	ng/kg dw	10,700	207	*20.9*	1,510	2,150	2,300	1,830	100	*2.92*	3,300	3,390	3,540
2,3,7,8- Tetrachlorodibenzofuran	ng/kg dw	2.30 U	0.0740 J	*0.0440 U*	0.621 U	0.637 U	1.10 U	0.451	0.0467 U	*0.0471 U*	1.21	0.958	1.17
1,2,3,7,8-Pentachlorodibenzofuran	ng/kg dw	5.82	0.0930 J	*0.0440 U*	0.361 J	0.556 J	0.961	0.410 J	0.0467 U	*0.0471 U*	1.20	1.03	1.25
2,3,4,7,8-Pentachlorodibenzofuran	ng/kg dw	21.3	0.284 J	*0.0670 J*	1.01	1.11	2.23	1.10	0.109 J	*0.0471 U*	2.54	2.02	2.29
1,2,3,4,7,8-Hexachlorodibenzofuran	ng/kg dw	152	1.48	*0.176 J*	3.73	3.75	12.7	5.24	0.205 J	*0.0471 U*	8.05	5.91	6.82
1,2,3,6,7,8- Hexachlorodibenzofuran	ng/kg dw	24.3	0.311 J	*0.0440 U*	1.32	1.66	3.61	1.46	0.135 J	*0.0471 U*	3.21	2.31	2.89
1,2,3,7,8,9- Hexachlorodibenzofuran	ng/kg dw	2.36	0.0440 U	*0.0440 U*	0.113 U	0.141 U	0.286 J	0.113 U	0.0467 U	*0.0471 U*	0.251 U	0.239 J	0.217 J
2,3,4,6,7,8- Hexachlorodibenzofuran	ng/kg dw	9.55	0.194 J	*0.0440 U*	1.02	1.25	2.29	1.01	0.146 J	*0.0471 U*	2.31	2.12	2.15
1,2,3,4,6,7,8- Heptachlorodibenzofuran	ng/kg dw	508	11.1	*0.743 J*	31.7	35.9	76.1	35.1	2.16	*0.0471 U*	77.1	61.7	66.7
1,2,3,4,7,8,9- Heptachlorodibenzofuran	ng/kg dw	66.2	1.47	*0.0930 U*	2.26	2.27	6.40	2.26	0.127 J	*0.0471 U*	6.58	5.01	5.17
Octachlorodibenzofuran	ng/kg dw	1,640	65.5	*2.08*	83.3	103	152	99.8	3.51	*0.0875 J*	225	228	191
Dioxin/furan TEQ	ng/kg dw	54.1 J	1.03 J	*0.147 J*	7.91 J	12.4 J	13.1 J	6.71 J	0.485 J	*0.355 J*	13.8	12.5 J	14.0 J

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

A-4. CONCENTRATIONS OF VOCS AND TOTAL SOLIDS IN LDW SUBSURFACE SEDIMENT SAMPLES FROM LOCATION SC49b

ANALYTE	UNIT	LDW-SC49V-0-1	LDW-SC49V-1-2	LDW-SC49V-2-3	LDW-SC49V-3-4	LDW-SC49V-4-5	LDW-SC49V-5-6	LDW-SC49V-6-7	LDW-SC49V-7-8	LDW-SC49V-8-9	LDW-SC49V-9-10	LDW-SC49V-10-11	LDW-SC49V-11-12
Volatile organic compounds													
1,2,4-Trichlorobenzene	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.5 UJ	8.4 U	8.1 UJ	7.4 UJ
1,2-Dichlorobenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 UJ	1.5 UJ
1,3-Dichlorobenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 UJ	1.5 UJ
1,4-Dichlorobenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 UJ	1.5 UJ
1,1,1,2-Tetrachloroethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
1,1,1-Trichloroethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
1,1,2,2-Tetrachloroethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 UJ	1.5 UJ
1,1,2-Trichloroethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
1,1,2-Trichlorotrifluoroethane	µg/kg dw	4.0 U	3.3 U	3.7 U	3.1 U	3.3 U	3.3 U	3.3 U	3.8 U	3.7 U	3.4 U	3.2 U	3.0 U
1,1-Dichloroethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
1,1-Dichloroethene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	320	120
1,1-Dichloropropene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
1,2,3-Trichlorobenzene	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.5 U	8.4 U	8.1 UJ	7.4 UJ
1,2,3-Trichloropropane	µg/kg dw	4.0 U	3.3 U	3.7 U	3.1 U	3.3 U	3.3 U	3.3 U	3.8 U	3.8 U	3.4 U	3.2 UJ	3.0 UJ
1,2,4-Trimethylbenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	420	580 J	14 J
1,2-Dibromo-3-chloropropane	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.5 U	8.4 U	8.1 UJ	7.4 UJ
1,2-Dibromoethane (EDB)	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
1,2-Dichloroethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
1,2-Dichloropropane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
1,3,5-Trimethylbenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9	180	350 J	11 J
1,3-Dichloropropane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
2,2-Dichloropropane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
2-Chloroethyl vinyl ether	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.4 U	8.4 U	8.1 U	7.4 U
2-Chlorotoluene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 UJ	1.5 UJ

ANALYTE	UNIT	LDW-SC49V-0-1	LDW-SC49V-1-2	LDW-SC49V-2-3	LDW-SC49V-3-4	LDW-SC49V-4-5	LDW-SC49V-5-6	LDW-SC49V-6-7	LDW-SC49V-7-8	LDW-SC49V-8-9	LDW-SC49V-9-10	LDW-SC49V-10-11	LDW-SC49V-11-12
2-Hexanone	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.4 U	8.4 U	8.1 U	7.4 U
4-Chlorotoluene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 UJ	1.5 UJ
Acetone	µg/kg dw	59	40	41	38	94	100	120	190	440	550	640	630
Acrolein	µg/kg dw	99 U	83 U	92 U	78 U	83 U	83 U	82 U	95 U	94 U	84 U	81 U	74 UJ
Acrylonitrile	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.4 U	8.4 U	8.1 U	7.4 U
Benzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	4.4	12	41	62	38
Bromobenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 UJ	1.5 UJ
Bromochloromethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
Bromodichloromethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
Bromoethane	µg/kg dw	4.0 U	3.3 U	3.7 U	3.1 U	3.3 U	3.3 U	3.3 U	3.8 U	3.7 U	3.4 U	3.2 U	3.0 U
Bromoform	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
Bromomethane	µg/kg dw	2.0 UJ	1.7 UJ	1.8 UJ	1.6 UJ	1.7 UJ	1.7 UJ	1.6 UJ	1.9 UJ	1.9 UJ	1.7 UJ	1.6 UJ	1.5 UJ
Carbon disulfide	µg/kg dw	2.0 U	4.0	6.3	3.0	1.7 U	2.2	1.6 U	2.8	5.3	1.9	10	3.0
Carbon tetrachloride	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
Chlorobenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
Chloroethane	µg/kg dw	2.0 UJ	1.7 UJ	1.8 UJ	1.6 UJ	1.7 UJ	1.7 UJ	1.6 UJ	1.9 UJ	1.9 UJ	1.7 UJ	1.6 UJ	1.5 UJ
Chloroform	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
Chloromethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
cis-1,2-Dichloroethene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	2.2	8.1	16	46	200,000	140,000
cis-1,3-Dichloropropene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
p-Cymene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	4.5	100	130 J	4.1 J
Dibromochloromethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
Dibromomethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
Dichloromethane	µg/kg dw	4.0 U	3.3 U	3.7 U	3.1 U	3.3 U	3.3 U	3.3 U	3.8 U	3.7 U	3.4 U	3.2 U	3.0
Ethylbenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	240	360 J	27
Hexachlorobutadiene	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.5 U	13	8.1 UJ	7.4 UJ
Iodomethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
Isopropylbenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	72	87 J	3.9 J
Methyl ethyl ketone	µg/kg dw	21	13	12	12	28	26	30	49	100	100	8.1 U	7.4 U

ANALYTE	UNIT	LDW-SC49V-0-1	LDW-SC49V-1-2	LDW-SC49V-2-3	LDW-SC49V-3-4	LDW-SC49V-4-5	LDW-SC49V-5-6	LDW-SC49V-6-7	LDW-SC49V-7-8	LDW-SC49V-8-9	LDW-SC49V-9-10	LDW-SC49V-10-11	LDW-SC49V-11-12
Methyl isobutyl ketone	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.4 U	8.4 U	8.1 U	7.8
Naphthalene	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.5 U	18	26 J	7.4 UJ
n-Butylbenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 UJ	58	78 J	1.5 UJ
n-Propylbenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	68	100 J	1.8 J
sec-Butylbenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	57	57 J	1.5 UJ
Styrene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
tert-Butylbenzene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	6.1	8.0 UJ	1.5 UJ
Tetrachloroethene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
Toluene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.8	2.0	40	2,500	8,300	2,300
trans-1,2-Dichloroethene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	22	1,700 J	980 J
trans-1,3-Dichloropropene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 UJ
trans-1,4-Dichloro-2-butene	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.5 U	8.4 U	8.1 UJ	7.4 UJ
Trichloroethene	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	12	6.5
Trichlorofluoromethane	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1.7 U	1.6 U	1.5 U
Vinyl acetate	µg/kg dw	9.9 U	8.3 U	9.2 U	7.8 U	8.3 U	8.3 U	8.2 U	9.5 U	9.4 U	8.4 U	8.1 U	7.4 UJ
Vinyl chloride	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	5.6 U	29	44	450	47,000	60,000
Xylene (ortho)	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	490	610 J	31
Xylene (meta & para)	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1,200	4,700	74 J
Total Xylenes	µg/kg dw	2.0 U	1.7 U	1.8 U	1.6 U	1.7 U	1.7 U	1.6 U	1.9 U	1.9 U	1,700	5,300 J	105 J
Conventional parameters													
Total solids	% ww	50.68	58.23	52.15	60.54	59.57	59.74	61.19	52.80	51.11	59.29	59.97	64.68

A-5. SALINITY AND CONDUCTIVITY IN LDW SUBSURFACE SEDIMENT POREWATER SAMPLES FROM LOCATIONS SC49b AND SC50b

PARAMETER	UNIT	LDW-SC49B						LDW-SC50B	
		LDW-SC49V-0-2	LDW-SC49V-2-4	LDW-SC49V-4-6	LDW-SC49V-6-8	LDW-SC49V-8-10	LDW-SC49V-10-12	LDW-SC50-0-2	LDW-SC50-2-4
Conventional parameters									
Salinity	ppt	25.5	25.3	*25.3*	25.1	25.7	24.6	25.3	26.2
Conductivity	umhos/cm	40,400	39,900	*40,000*	39,600	40,700	38,900	40,200	41,400

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

A-6. CONCENTRATIONS OF ALL ANALYTES COMPARED TO SQS/SL AND CSL/ML FOR LDW SUBSURFACE SEDIMENT SAMPLES WITH TOC ≥ 0.5% AND ≤ 4%, 1- AND 2-FT SAMPLE INTERVALS

Table A-6a. 1- and 2-ft intervals, samples SC1-SC5

1- AND 2-FT INTERVALS				LDW-SC1		LDW-SC2		LDW-SC3		LDW-SC4				LDW-SC5		
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC1-0-2	LDW-SC1-2-4	LDW-SC2-0-2	LDW-SC2-10.7-12	LDW-SC3-0-2	LDW-SC3-2-4	LDW-SC4-0-1	LDW-SC4-1-2	LDW-SC4-2-4	LDW-SC4-4-6	LDW-SC5-0-1	LDW-SC5-1-2.2	LDW-SC5-2.2-4
Metals and trace elements																
Antimony	mg/kg dw	150	200	9 UJ	6 UJ	40 J	6 UJ	*6 UJ*	7 UJ	*8 UJ*	9 UJ	7 UJ	na	*7 UJ*	8 UJ	6 UJ
Arsenic	mg/kg dw	57	93	22	10	**190**	6 U	*6 U*	7 U	*18*	**63**	14	na	*17*	14	6 U
Cadmium	mg/kg dw	5.1	6.7	2.0	0.4	3.4	0.2 U	*0.3 U*	0.3 U	*0.7*	2.0	1.0	na	*0.6*	0.5	0.3 U
Chromium	mg/kg dw	260	270	74.3	21.1	43	10.7	*12.4*	10.4	*27.8*	40.2	25.9	na	*28.2*	21.3	11.0
Copper	mg/kg dw	390	390	111	25.9	126 J	10.5	*15.1*	15.2	*90.2 J*	146 J	37.1 J	na	*78.5*	77.1	29.3
Lead	mg/kg dw	450	530	149 J	23 J	**569**	2 U	*3 U*	3 U	*92*	320	123	na	*86*	74	13
Mercury	mg/kg dw	0.41	0.59	**0.61**	0.21	0.21 J	na	*0.07 U*	0.06 U	***0.53 J***	**0.43 J**	0.22 J	na	*0.27*	**0.51**	0.10
Nickel	mg/kg dw	140	370	32	10	23	7	*9*	7	*20*	23	12	na	*18*	16	9
Silver	mg/kg dw	6.1	6.1	3.3	0.7	2	0.4 U	*0.4 U*	0.4 U	*0.5 U*	1.6	0.9	na	*0.4 U*	0.5 U	0.4 U
Zinc	mg/kg dw	410	960	212 J	56.4 J	**748**	21.5	*22.9*	20.9	*120*	288	89.0	na	*145*	100	37.1
PAHs																
2-Methylnaphthalene	mg/kg OC	38	64	2.9 U	1.3 U	4.7	8.8 U	0.95 U	3.0 U	1.4	1.2	12	na	1.4	1.4	1.6 U
Acenaphthene	mg/kg OC	16	57	2.9 U	1.3 U	16	8.8 U	0.95 U	3.0 U	1.2 J	1.8	11	na	1.5	3.8	1.6 U
Acenaphthylene	mg/kg OC	66	66	2.9 U	1.3 U	2.5 U	8.8 U	0.95 U	3.0 U	0.91 J	0.76 J	1.2 U	na	3.6	3.6	1.4 J
Anthracene	mg/kg OC	220	1,200	3.3	0.88 J	9.4	8.8 U	0.95 U	3.0 U	3.8	4.0	1.5	na	20	14	4.8
Benzo(a)anthracene	mg/kg OC	110	270	9.0	1.3	9.5	8.8 U	0.95 U	3.0 U	12	10	2.8	na	30	31	13
Benzo(a)pyrene	mg/kg OC	99	210	17	3.3	4.5	8.8 U	0.95 U	3.0 U	13	13	2.7	na	38	36	19
Benzo(g,h,i)perylene	mg/kg OC	31	78	2.9 J	0.69 J	2.5 U	8.8 U	0.95 U	3.0 U	2.5	2.4	1.2 U	na	9.5	8.1	7.5

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC1		LDW-SC2		LDW-SC3		LDW-SC4				LDW-SC5		
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC1-0-2	LDW-SC1-2-4	LDW-SC2-0-2	LDW-SC2-10.7-12	LDW-SC3-0-2	LDW-SC3-2-4	LDW-SC4-0-1	LDW-SC4-1-2	LDW-SC4-2-4	LDW-SC4-4-6	LDW-SC5-0-1	LDW-SC5-1-2.2	LDW-SC5-2.2-4
Total benzofluoranthenes	mg/kg OC	230	450	53	9.9	16	8.8 U	0.95 U	3.0 U	45	39	7.9	na	89	71	39
Chrysene	mg/kg OC	110	460	15	2.1	11	8.8 U	0.95 U	3.0 U	17	16	3.7	na	40	33	21
Dibenzo(a,h)anthracene	mg/kg OC	12	33	2.9 U	1.3 U	2.5 U	0.88 U	0.95 U	3.0 U	0.78 J	0.76 J	1.2 U	na	2.4	2.1	1.9
Dibenzofuran	mg/kg OC	15	58	2.9 U	1.3 U	7.5	8.8 U	0.95 U	3.0 U	1.3	1.3	2.0	na	1.7	1.8	1.6 U
Fluoranthene	mg/kg OC	160	1,200	13	2.5	57	8.8 U	0.95 U	3.0 U	22	28	8.7	na	59	79	11
Fluorene	mg/kg OC	23	79	2.9 U	1.3 U	9.8	8.8 U	0.95 U	3.0 U	1.6	2.1	2.8	na	5.3	4.1	1.7
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	3.2	0.63 J	2.5 U	8.8 U	0.95 U	3.0 U	2.8	2.8	1.2 U	na	11	9.9	7.8
Naphthalene	mg/kg OC	99	170	2.9 U	1.3 U	5.2	8.8 U	0.95 U	3.0 U	5.1	9.6	87	na	1.5	3.6	1.3 J
Phenanthrene	mg/kg OC	100	480	5.2	1.6	32	8.8 U	0.95 U	3.0 U	8.4	13	4.7	na	30	33	7.8
Pyrene	mg/kg OC	1,000	1,400	38	10	37	8.8 U	0.95 U	3.0 U	23	25	9.2	na	60	64	64
Total HPAH	mg/kg OC	960	5,300	150 J	31 J	130	8.8 U	0.95 U	3.0 U	140 J	140 J	35	na	340	330	180
Total LPAH	mg/kg OC	370	780	8.6	2.4 J	72	8.8 U	0.95 U	3.0 U	21 J	31 J	100	na	61	64	17 J
Phthalates																
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	**86**	5.9	**100**	8.8 U	2.0 U	3.0 U	27	42	19	na	23	0.51 U	1.6 U
Butyl benzyl phthalate	mg/kg OC	4.9	64	3.4	1.0	0.75 U	0.88 U	0.29 U	0.88 U	1.3	1.7	0.35 U	na	2.1	0.79	0.47 U
Diethyl phthalate	mg/kg OC	61	110	2.9 U	1.3 U	2.5 U	8.8 U	0.95 U	3.0 U	1.3 U	1.1 U	1.2 U	na	1.2 U	0.51 U	1.6 U
Dimethyl phthalate	mg/kg OC	53	53	2.9 U	1.3 U	2.5 U	0.88 U	0.95 U	3.0 U	1.3 U	1.1 U	1.2 U	na	1.2 U	0.51 U	1.6 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	2.1 J	1.3	2.5 U	8.8 U	0.95 U	3.0 U	1.3 U	1.6 U	1.2 U	na	1.8 U	0.53 U	1.6 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	2.9 U	1.3 U	2.5 U	8.8 U	0.95 U	3.0 U	1.3 U	1.1 U	1.2 U	na	1.2 U	0.51 U	1.6 U
Other SVOCs																
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.29 U	0.38 U	0.75 U	**0.88 U**	0.29 U	**0.88 U**	0.38 U	0.34 U	0.35 UJ	na	0.36 U	0.15 UJ	0.47 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.29 U	0.38 U	0.75 U	0.88 U	0.29 U	0.88 U	0.38 U	0.34 U	0.35 U	na	0.36 U	0.15 U	0.47 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	60 U	20 U	22 U	6.6 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.29 U	0.38 U	0.75 U	0.88 U	0.29 U	0.88 U	0.38 U	0.24 J	0.35 U	na	0.36 U	0.15 U	0.47 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC1		LDW-SC2		LDW-SC3		LDW-SC4				LDW-SC5		
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC1-0-2	LDW-SC1-2-4	LDW-SC2-0-2	LDW-SC2-10.7-12	LDW-SC3-0-2	LDW-SC3-2-4	LDW-SC4-0-1	LDW-SC4-1-2	LDW-SC4-2-4	LDW-SC4-4-6	LDW-SC5-0-1	LDW-SC5-1-2.2	LDW-SC5-2.2-4
2,4-Dimethylphenol	µg/kg dw	29	29	6.0 U	6.0 U	18 U	6.6 U	6.0 U	5.9 U	18 U	17 U	**46**	na	18 UJ	9.5 J	17 UJ
2-Methylphenol	µg/kg dw	63	63	6.0 U	6.0 U	6.7 U	6.6 U	6.0 U	5.9 U	5.9 U	6.7 U	6.0 U	na	6.0 U	10 J	6.0 U
4-Methylphenol	µg/kg dw	670	670	60 U	20 U	13 J	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	24	20 U
Benzoic acid	µg/kg dw	650	650	100	72	290 UJ	590 U	58 J	59 U	400 J	400 J	280 UJ	na	82 U	150 U	60 U
Benzyl alcohol	µg/kg dw	57	73	30 U	30 U	44	33 U	30 U	29 U	30 U	34 U	30 U	na	30 U	30 U	30 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.29 U	0.38 U	**0.75 U**	**0.88 U**	0.29 U	**0.88 U**	0.38 U	0.34 U	0.35 U	na	0.36 U	0.15 U	**0.47 U**
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.29 U	0.38 U	0.75 U	0.88 U	0.29 U	0.88 U	0.38 U	0.34 U	0.35 U	na	0.36 U	0.15 U	0.47 U
Hexachloroethane	µg/kg dw	1,400	14,000	60 U	20 U	22 U	66 U	20 U	20 U	20 U	22 U	20 U	na	20 U	20 U	20 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	1.5 U	0.81 U	**30 U**	0.88 U	0.29 U	0.88 U	1.7 U	8.6 U	3.4 U	na	1.6 U	1.8 U	0.70 U
Pentachlorophenol	µg/kg dw	360	690	30 U	30 U	34 U	33 U	30 U	29 U	30 U	21 J	30 U	na	30 U	30 U	30 U
Phenol	µg/kg dw	420	1,200	60 U	20 U	36 U	66 U	20 U	20 U	39 U	43 U	24 U	na	170	33	20 U
Polychlorinated biphenyls	Total chlordane															
Total PCBs	mg/kg OC	12	65	**160**	**28**	**150**	0.51 U	0.19 U	0.58 U	9.3	**25**	**35**	0.48 U	**30**	1.7	0.30 U
Pesticides																
Total DDTs	µg/kg dw	6.9	69	na	na	**110 U**	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	na	7.5 U	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	na	**15 U**	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	7.5 U	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	na	7.5 U	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	na	**53 U**	na	na	na	na	na	na	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Table A-6b. 1- and 2-ft intervals, samples SC6-SC9

1- AND 2-FT INTERVALS				LDW-SC6			LDW-SC7		LDW-SC8						LDW-SC9		
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC6-0-2	LDW-SC6-2-4.5	LDW-SC6-6-8	LDW-SC7-0-1	LDW-SC7-1-1.7	LDW-SC8-0-1	LDW-SC8-1-2	LDW-SC8-2-4	LDW-SC8-4-6	LDW-SC8-6-8	LDW-SC8-8-10	LDW-SC9-0-1	LDW-SC9-1-2.6	LDW-SC9-2.6-4
Metals and trace elements																	
Antimony	mg/kg dw	150	200	*9 UJ*	8 UJ	6 UJ	7 UJ	6 UJ	8 UJ	8 UJ	10 J	14 J	na	*9 UJ*	7 UJ	9 UJ	8 UJ
Arsenic	mg/kg dw	57	93	*21*	41	20	17	11	19	20	40	**62**	na	*21*	17	30	16
Cadmium	mg/kg dw	5.1	6.7	*0.4 U*	1.8	0.3 U	0.9	0.6	0.5	1.0	2.8	4.0	na	*1.9*	2.0	**5.9**	0.8
Chromium	mg/kg dw	260	270	*37.1*	61.0	13.0	39.6	35.5	32.9	46.4	59.4	81.6	na	*54.7*	51.3	119	23.2
Copper	mg/kg dw	390	390	*99.2*	123	23.2	90.4	37.0	98.0	84.9	87.6	129	na	*89.4*	79.3	121	37.9
Lead	mg/kg dw	450	530	*67*	141	42	137	60	110	137	149	209	na	*89*	99 J	133 J	37 J
Mercury	mg/kg dw	0.41	0.59	*0.29*	**0.44**	0.05 U	**0.47**	0.17	0.32	**0.48**	**0.45**	**0.77**	na	***0.89***	**0.42**	**1.28**	0.17
Nickel	mg/kg dw	140	370	*28*	45	10	26	37	23	37	32	23	na	*24*	22	29	15
Silver	mg/kg dw	6.1	6.1	*0.5 U*	1.6	0.4 U	1.0	0.5	0.6	0.8	2.5	3.6	na	*2.3*	2.3	**7.5**	0.5 U
Zinc	mg/kg dw	410	960	*209*	359	88.4	175	91.9	166	193	317	**527**	na	*186*	168	263	69
PAHs																	
2-Methylnaphthalene	mg/kg OC	38	64	0.88 U	1.2 U	10 U	0.98 U	2.4 U	1.0 U	1.7 U	1.4 U	4.1 J	3.3 U	3.3 U	2.3	1.1 J	2.9 U
Acenaphthene	mg/kg OC	16	57	0.75 J	0.97 J	10 U	1.0	2.4 U	1.1	2.1	3.3	12	2.6 J	3.3 U	0.86 J	0.49 J	2.9 U
Acenaphthylene	mg/kg OC	66	66	1.2	1.0 J	10 U	0.69 J	2.4 U	1.2	1.7 J	1.1 J	4.2 U	3.3 U	3.3 U	0.86 J	0.61 J	2.9 U
Anthracene	mg/kg OC	220	1,200	4.8	5.9	10 U	3.4	1.3 J	4.9	8.5	8.5	17	7.1	3.3	3.6	2.6 J	2.0 J
Benzo(a)anthracene	mg/kg OC	110	270	11	12	10 U	8.8	2.9	11	39	14	21	13	7.4	6.0	2.9 J	2.9
Benzo(a)pyrene	mg/kg OC	99	210	17 J	21	10 U	15 J	5.5	19	31	12 J	14	10	11	8.0	6.9 J	5.2 J
Benzo(g,h,i)perylene	mg/kg OC	31	78	3.6 J	3.7	10 U	3.9 J	1.4 J	4.0	5.2	2.7 J	4.9	3.9	5.3	1.6	1.6 J	2.9 UJ
Total benzofluoranthenes	mg/kg OC	230	450	57 J	61 J	10 U	43 J	16	59	100	32 J	30	23	23	25	17 J	13 J
Chrysene	mg/kg OC	110	460	23	21 J	10 U	13	4.0	19	47	18	24	16	10	11	6.5 J	4.3
Dibenzo(a,h)anthracene	mg/kg OC	12	33	1.2 J	1.1 J	1.0	1.0 J	2.4 U	1.3	1.7	0.78 J	3.1	2.7	2.6	1.2 U	0.89 UJ	2.9 UJ
Dibenzofuran	mg/kg OC	15	58	0.88 U	1.2 U	10 U	0.98 U	2.4 U	1.0 U	1.7 U	2.0	6.5	3.3 U	3.3 U	1.2 U	0.89 UJ	2.9 U
Fluoranthene	mg/kg OC	160	1,200	23	19	10 U	23	7.4	25	51	48	84	37	18	15	8.1 J	8.4
Fluorene	mg/kg OC	23	79	1.1	1.6	10 U	0.93 J	2.4 U	1.1	2.5	5.0	15	6.1	3.3 U	1.3	0.85 J	2.9 U
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	4.2 J	4.1	10 U	3.8 J	1.6 J	4.7	5.7	2.7 J	4.4	3.6	5.1	1.5	1.2 J	2.9 UJ

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC6			LDW-SC7		LDW-SC8						LDW-SC9		
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC6-0-2	LDW-SC6-2-4.5	LDW-SC6-6-8	LDW-SC7-0-1	LDW-SC7-1-1.7	LDW-SC8-0-1	LDW-SC8-1-2	LDW-SC8-2-4	LDW-SC8-4-6	LDW-SC8-6-8	LDW-SC8-8-10	LDW-SC9-0-1	LDW-SC9-1-2.6	LDW-SC9-2.6-4
Naphthalene	mg/kg OC	99	170	0.57 J	0.85 J	10 U	0.69 J	2.4 U	0.80 J	1.3 J	1.3 J	4.7	3.3 U	3.3 U	1.8	0.97 J	2.9 U
Phenanthrene	mg/kg OC	100	480	8.8	10 J	10 U	9.8	3.8	11	15	14	59	23	5.8	8.0	3.6 J	4.2
Pyrene	mg/kg OC	1,000	1,400	33	50	8.5 J	29	14	34	60	38	60	36	25	21	23 J	13
Total HPAH	mg/kg OC	960	5,300	170 J	190 J	9.7 J	140 J	53 J	180	340	170 J	250	140	110	90	67 J	47 J
Total LPAH	mg/kg OC	370	780	17 J	21 J	10 U	17 J	5.1 J	20 J	31 J	33 J	110	39 J	8.9	17 J	9.1 J	6.2 J
Phthalates																	
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	21	**67**	10 U	**59**	29	32	41	**110**	**140**	**71**	14	**100**	**49 J**	2.9 U
Butyl benzyl phthalate	mg/kg OC	4.9	64	2.4	3.2	1.0 U	3.6	2.2 J	2.1 J	2.1 J	1.4 U	2.3 U	1.8 J	0.33 U	1.7	0.65	1.1
Diethyl phthalate	mg/kg OC	61	110	0.88 U	1.2 U	10 U	0.98 U	2.4 U	1.0 U	1.7 U	1.4 U	4.2 U	3.3 U	3.3 U	1.2 U	0.89 UJ	2.9 U
Dimethyl phthalate	mg/kg OC	53	53	0.43 J	1.2 U	1.0 U	0.98 U	2.4 U	1.0 U	1.7 U	1.4 U	0.42 U	0.33 U	3.3 U	1.2 U	0.89 UJ	2.9 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	1.4 U	2.4 U	10 U	1.6 U	2.4 U	1.6 U	2.0 U	2.2 U	4.2 U	3.3 U	2.2 J	2.1 U	1.5 UJ	3.6 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	0.88 U	1.2 U	10 U	0.98 U	2.4 U	1.0 U	1.7 U	0.99 J	4.2 U	3.3 U	3.3 U	1.2 U	0.89 UJ	2.9 U
Other SVOCs																	
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.26 U	0.36 U	**1.0 U**	**0.98 UJ**	**2.4 UJ**	0.30 U	0.51 U	**1.4 UJ**	0.71	0.71	0.33 UJ	**1.1 J**	**0.89 J**	**0.85 UJ**
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.26 U	0.22 J	1.0 U	0.98 U	**2.4 U**	0.30 U	0.51 U	1.4 U	0.65	0.61	0.33 U	1.0	0.24 J	0.85 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	20 U	20 U	6.5 U	20 U	20 U	20 U	20 U	20 U	12	6.5	62 U	20 U	22 UJ	20 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.26 U	0.25 J	1.0 U	0.88 J	2.4 U	0.33	0.31 J	1.4 U	2.0	0.71	0.33 U	1.1	0.37	0.85 U
2,4-Dimethylphenol	µg/kg dw	29	29	18 U	18 U	6.5 U	18 U	18 U	17 U	17 U	18 U	6.5 UJ	16 J	10	17 U	20 U	17 U
2-Methylphenol	µg/kg dw	63	63	5.3 J	5.9	6.5 U	20 U	20 U	5.9 UJ	5.9 UJ	20 U	6.5 U	5.9 J	6.2 U	3.6 J	6.6 U	5.9 U
4-Methylphenol	µg/kg dw	670	670	20 U	20 U	65 U	20 U	20 U	20 U	20 U	23	42 J	65 U	62 U	17 J	16 J	20 U
Benzoic acid	µg/kg dw	650	650	330	260	590 U	200 UJ	200 UJ	52 J	48 J	200 UJ	590 U	590 U	620 U	390 J	540 J	100 J
Benzyl alcohol	µg/kg dw	57	73	30 U	30 U	33 U	**99 U**	**99 U**	30 UJ	30 UJ	**99 U**	33 U	33 U	31 U	**140 J**	33 UJ	30 UJ
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.26 U	0.36 U	**1.0 U**	0.16 U	**0.79 U**	0.049 U	**0.43 U**	**0.53 U**	**0.42 U**	0.23 J	0.33 U	0.36 U	0.27 U	0.14 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.26 U	0.36 U	1.0 U	0.16 U	0.79 U	0.049 U	0.43 U	0.53 U	0.42 U	0.30 J	0.33 U	0.36 U	0.27 U	0.14 U
Hexachloroethane	µg/kg dw	1,400	14,000	20 U	20 U	65 U	20 U	20 U	20 U	20 U	20 U	65 U	65 U	62 U	20 U	22 UJ	20 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	0.75 U	1.9 U	1.0 U	2.0 U	2.4 U	1.3 U	3.2 U	**12 U**	**33 U**	**14 U**	3.4 UJ	4.0 U	5.7 U	3.0 U
Pentachlorophenol	µg/kg dw	360	690	30 U	30 U	33 U	99 U	99 U	22 J	21 J	99 U	40	45	19 J	16 J	34	30 U
Phenol	µg/kg dw	420	1,200	40	33	65 U	14 J	20 U	42	31	38	65 U	65 U	62 U	47	73 J	13 J
Polychlorinated biphenyls																	

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC6			LDW-SC7		LDW-SC8						LDW-SC9		
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC6-0-2	LDW-SC6-2-4.5	LDW-SC6-6-8	LDW-SC7-0-1	LDW-SC7-1-1.7	LDW-SC8-0-1	LDW-SC8-1-2	LDW-SC8-2-4	LDW-SC8-4-6	LDW-SC8-6-8	LDW-SC8-8-10	LDW-SC9-0-1	LDW-SC9-1-2.6	LDW-SC9-2.6-4
Total PCBs	mg/kg OC	12	65	7.5	**99**	0.73 J	**64**	**150 J**	**15**	**90**	**210**	**350**	**190**	**28**	**220**	**110**	9.7
Pesticides																	
Total DDTs	µg/kg dw	6.9	69	na	na	na	**38 U**	**23 U**	5.4 U	**44 U**	**81 U**	na	na	na	**160 U**	**120 U**	**32 U**
Aldrin	µg/kg dw	10	nv	na	na	na	3.2 U	6.6 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	0.98 U
Dieldrin	µg/kg dw	10	nv	na	na	na	6.5 U	**13 U**	2.0 U	9.8 U	**15 U**	na	na	na	**15 U**	**20 U**	2.0 U
gamma-BHC	µg/kg dw	10	nv	na	na	na	3.2 U	6.6 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	0.98 U
Heptachlor	µg/kg dw	10	nv	na	na	na	3.2 U	6.6 U	0.98 U	4.9 U	7.5 U	na	na	na	7.3 U	9.9 U	0.98 U
Total chlordane	µg/kg dw	10	nv	na	na	na	**14 U**	**21 U**	2.0 U	**21 U**	**43 U**	na	na	na	**61 U**	**20 U**	3.3 U

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6c. 1- and 2-ft intervals, samples SC10-SC13

1- AND 2-FT INTERVALS				LDW-SC10					LDW-SC11	LDW-SC12				LDW-SC13	
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC10-0-1	LDW-SC10-1-2	LDW-SC10-2-4	LDW-SC10-4-5	LDW-SC10-6-8	LDW-SC11-0.8-2	LDW-SC12-0-2	LDW-SC12-2-4	LDW-SC12-4-6.7	LDW-SC12-6.7-8.7	LDW-SC13-0-2	LDW-SC13-2-4
Metals and trace elements															
Antimony	mg/kg dw	150	200	6 UJ	9 UJ	8 UJ	na	na	6 UJ	10 UJ	9 UJ	na	na	*7 UJ*	7 UJ
Arsenic	mg/kg dw	57	93	8	19	21	na	na	9	20	19	na	na	*16*	13
Cadmium	mg/kg dw	5.1	6.7	0.4	0.9	2.2	na	na	0.2 U	0.4	1.4	na	na	*1.2*	0.7
Chromium	mg/kg dw	260	270	30	44.7	53.0	na	na	13.5	29	53.6	na	na	*38.1*	20.9
Copper	mg/kg dw	390	390	88.1	108	200	na	na	17.2	73.0	76.7	na	na	*53.6*	27.9
Lead	mg/kg dw	450	530	43	87	308	na	na	3	66	74	na	na	*71 J*	36 J
Mercury	mg/kg dw	0.41	0.59	0.12	0.27	**0.74**	0.17	na	0.06 U	0.23	**0.45**	**0.74**	0.05 U	*0.30*	0.26
Nickel	mg/kg dw	140	370	22	33	30	na	na	10	17	23	na	na	*18*	11
Silver	mg/kg dw	6.1	6.1	0.4 U	0.7	2.7	na	na	0.4 U	0.6 U	1.6	na	na	*1.3*	0.4 U
Zinc	mg/kg dw	410	960	104	239	299	na	na	26.2	129	139	na	na	*110*	60.4
PAHs															
2-Methylnaphthalene	mg/kg OC	38	64	1.1 U	2.7 U	2.0 U	6.3 U	na	2.9 U	3.1 U	2.5 U	na	na	1.0	3.3
Acenaphthene	mg/kg OC	16	57	1.1 U	2.7 U	1.6 J	6.3 U	na	2.9 U	3.1 U	2.5 U	na	na	2.7	14
Acenaphthylene	mg/kg OC	66	66	1.1 U	2.7 U	2.0 U	6.3 U	na	2.9 U	3.1 U	2.5 U	na	na	0.95	2.1
Anthracene	mg/kg OC	220	1,200	1.9	3.7	4.4	6.3 U	na	2.9 U	2.2 J	3.0	na	na	3.8	16
Benzo(a)anthracene	mg/kg OC	110	270	7.0	12	14	4.8 J	na	2.9 U	6.8	5.3	na	na	9.0	44
Benzo(a)pyrene	mg/kg OC	99	210	7.5	18	20	4.7 J	na	2.9 U	9.9	8.2	na	na	11	37
Benzo(g,h,i)perylene	mg/kg OC	31	78	2.2	4.1	4.1	3.3 J	na	2.9 U	2.3 J	1.6 J	na	na	1.7	4.2
Total benzofluoranthenes	mg/kg OC	230	450	23	54	58	9.4 J	na	2.9 U	33	24	na	na	33	97
Chrysene	mg/kg OC	110	460	9.7	21	21	5.7 J	na	2.9 U	11	7.0	na	na	12	49

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC10					LDW-SC11	LDW-SC12				LDW-SC13	
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC10-0-1	LDW-SC10-1-2	LDW-SC10-2-4	LDW-SC10-4-5	LDW-SC10-6-8	LDW-SC11-0.8-2	LDW-SC12-0-2	LDW-SC12-2-4	LDW-SC12-4-6.7	LDW-SC12-6.7-8.7	LDW-SC13-0-2	LDW-SC13-2-4
Dibenzo(a,h)anthracene	mg/kg OC	12	33	0.75 J	2.7 U	1.2 J	1.7	na	2.9 U	3.1 U	2.5 U	na	na	0.61 J	1.7
Dibenzofuran	mg/kg OC	15	58	1.1 U	2.7 U	2.0 U	6.3 U	na	2.9 U	3.1 U	2.5 U	na	na	1.4	6.2
Fluoranthene	mg/kg OC	160	1,200	17	36	41	11	na	2.9 U	18	13	na	na	29	58
Fluorene	mg/kg OC	23	79	1.1 U	2.7 U	1.6 J	6.3 U	na	2.9 U	3.1 U	2.5 U	na	na	2.1	8.8
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	1.9	3.9	4.4	6.3 U	na	2.9 U	3.0 J	2.0 J	na	na	2.0	5.3
Naphthalene	mg/kg OC	99	170	1.1 U	2.7 U	1.2 J	6.3 U	na	2.9 U	3.1 U	2.5 U	na	na	3.2	9.3
Phenanthrene	mg/kg OC	100	480	5.9	13	17	4.5 J	na	2.9 U	5.2	7.6	na	na	8.4	23
Pyrene	mg/kg OC	1,000	1,400	16	33	41	15	na	2.0 J	24	23	na	na	32	62
Total HPAH	mg/kg OC	960	5,300	85 J	180	200 J	56 J	na	2.0 J	110 J	84 J	na	na	130 J	360
Total LPAH	mg/kg OC	370	780	8.1	17	25 J	4.5 J	na	2.9 U	7.3 J	11	na	na	21	74
Phthalates															
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	**65**	**130**	**130**	28	na	2.9 U	11	24 J	na	na	4.6	0.88 U
Butyl benzyl phthalate	mg/kg OC	4.9	64	1.6	**7.2**	**6.1**	1.7	na	0.90 U	1.7	0.76 U	na	na	0.20 U	0.27 U
Diethyl phthalate	mg/kg OC	61	110	1.1 U	2.7 U	2.0 U	6.3 U	na	2.9 U	3.1 U	2.5 U	na	na	0.66 U	0.88 U
Dimethyl phthalate	mg/kg OC	53	53	0.70 J	2.7 U	2.0 U	0.63 U	na	2.9 U	3.1 U	2.5 U	na	na	0.66 U	0.88 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	1.7 U	2.7 U	2.0 U	6.3 U	na	2.9 U	3.1 U	1.3 J	na	na	5.2 U	1.2 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	1.3	2.7 U	3.7	6.3 U	na	2.9 U	3.1 U	2.5 U	na	na	0.66 U	0.88 U
Other SVOCs															
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	**1.1 UJ**	**0.90 UJ**	0.68 UJ	0.63 U	na	**0.90 U**	0.31 UJ	0.76 UJ	na	na	0.14 J	0.27 UJ
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	1.1 U	0.90 U	0.34 J	0.96	na	0.90 U	0.31 U	0.76 U	na	na	0.20 U	0.27 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	20 U	60 U	59 U	6.6 U	na	19 U	59 U	40 U	na	na	23 U	20 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	1.1 U	0.90 U	1.3	0.76	na	0.90 U	0.31 U	0.76 U	na	na	0.20 U	0.27 U
2,4-Dimethylphenol	µg/kg dw	29	29	27 J	18 UJ	18 UJ	6.6 U	na	5.8 UJ	5.9 U	12 U	na	na	19 U	18 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC10					LDW-SC11	LDW-SC12				LDW-SC13	
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC10-0-1	LDW-SC10-1-2	LDW-SC10-2-4	LDW-SC10-4-5	LDW-SC10-6-8	LDW-SC11-0.8-2	LDW-SC12-0-2	LDW-SC12-2-4	LDW-SC12-4-6.7	LDW-SC12-6.7-8.7	LDW-SC13-0-2	LDW-SC13-2-4
2-Methylphenol	µg/kg dw	63	63	20 U	20 U	20 U	6.6 U	na	5.8 U	5.9 U	12 U	na	na	6.8 U	6.0 U
4-Methylphenol	µg/kg dw	670	670	20 U	60 U	59 U	66 U	na	19 U	59 U	40 U	na	na	23 U	20 U
Benzoic acid	µg/kg dw	650	650	200 UJ	200 UJ	200 UJ	590 U	na	77	120 UJ	120 UJ	na	na	220 J	120 J
Benzyl alcohol	µg/kg dw	57	73	**100 U**	**99 U**	**99 U**	33 U	na	29 U	29 U	**60 U**	na	na	34 UJ	30 UJ
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.054 U	0.090 U	0.17 U	**0.63 U**	na	**0.90 U**	0.31 U	**0.76 U**	na	na	0.20 U	0.27 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.054 U	0.090 U	0.17 U	0.63 U	na	0.90 U	0.31 U	0.76 U	na	na	0.20 U	0.27 U
Hexachloroethane	µg/kg dw	1,400	14,000	20 U	60 U	59 U	66 U	na	19 U	59 U	40 U	na	na	23 U	20 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	1.1 U	4.5 U	3.7 U	3.1 U	na	0.90 U	1.1 U	3.0 U	na	na	2.4 U	2.8 U
Pentachlorophenol	µg/kg dw	360	690	100 U	99 U	99 U	33 U	na	29 U	29 U	60 U	na	na	18 J	30 U
Phenol	µg/kg dw	420	1,200	23	99	77	66 U	na	19 U	59 U	36 J	na	na	32	16 J
Polychlorinated biphenyls															
Total PCBs	mg/kg OC	12	65	**14 J**	**13**	**38**	**39**	**35**	0.60 U	**18**	**160**	**22**	0.45 U	**14**	2.3
Pesticides											-				
Total DDTs	µg/kg dw	6.9	69	**11 U**	**22 U**	**33 U**	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	10	nv	1.0 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	10	nv	2.0 U	4.0 U	9.8 U	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	1.0 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	10	nv	1.0 U	2.0 U	4.9 U	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	10	nv	3.9 U	8.8 U	**23 U**	na	na	na	na	na	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6d. 1- and 2-ft intervals, samples SC14-SC16

1- AND 2-FT INTERVALS				LDW-SC14					LDW-SC15				LDW-SC16			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC14-0-1.4	LDW-SC14-1.4-2	LDW-SC14-2-4.1	LDW-SC14-4.1-6	LDW-SC14-6-8.7	LDW-SC15-0-1	LDW-SC15-1-2	LDW-SC15-2-4	LDW-SC15-4-6	LDW-SC16-0-2	LDW-SC16-2-4	LDW-SC16-4-6	LDW-SC16-8-10
Metals and trace elements																
Antimony	mg/kg dw	150	200	8 UJ	9 UJ	9 UJ	na	na	10 UJ	10 UJ	9 UJ	na	9 UJ	9 UJ	10 UJ	8 UJ
Arsenic	mg/kg dw	57	93	24	22	22	na	na	30	20	25	na	21	20	20	14
Cadmium	mg/kg dw	5.1	6.7	2.8	1.7	1.3	na	na	0.5	0.5	1.6	na	1.1	4.1	3.2	1.2
Chromium	mg/kg dw	260	270	63.7	51.6	42.5	na	na	36	36	37.6	na	39.9	75.0	92	34.9
Copper	mg/kg dw	390	390	106	69.5	72.2	na	na	98.2	90.1	103	na	113 J	114 J	116	53.9
Lead	mg/kg dw	450	530	140	68	60	na	na	56	55	116	na	105	158	113	79
Mercury	mg/kg dw	0.41	0.59	**0.71**	**0.51**	**0.7**	**0.68**	**0.42**	0.29	0.29	0.31	na	0.38	**0.85**	**0.98**	0.35
Nickel	mg/kg dw	140	370	26	24	21	na	na	23	26	25	na	26 J	28 J	34	20
Silver	mg/kg dw	6.1	6.1	3.0	1.7	2.1	na	na	0.6 U	0.6 U	0.8	na	0.7	4.5	4.3	0.5
Zinc	mg/kg dw	410	960	232	133	124	na	na	165	162	373	na	303	**428**	240	137
PAHs																
2-Methylnaphthalene	mg/kg OC	38	64	3.5 U	1.2 U	1.2 U	3.6 U	na	2.5 U	3.0 U	3.7 U	na	0.99 U	2.6 U	2.9 U	3.8 U
Acenaphthene	mg/kg OC	16	57	3.5 U	1.2 U	1.2 U	3.6 U	na	2.5 U	3.0 U	3.7 U	na	0.74 J	4.1	16	5.6
Acenaphthylene	mg/kg OC	66	66	3.5 U	1.2 U	0.64 J	3.6 U	na	1.3 J	3.0 U	3.7 U	na	1.9	2.6 U	2.5 J	3.8 U
Anthracene	mg/kg OC	220	1,200	3.5	1.7	2.1	2.9 J	na	4.2	3.3	4.6	na	7.4	6.1	26	2.6 J
Benzo(a)anthracene	mg/kg OC	110	270	9.3	3.7	4.5	6.0	na	13	9.7	15	na	33	12	71	5.7
Benzo(a)pyrene	mg/kg OC	99	210	13	4.7	5.8	7.1	na	15	15	24	na	21	8.4	37	5.0
Benzo(g,h,i)perylene	mg/kg OC	31	78	2.4 J	0.74 J	1.2	3.9	na	4.2	4.6	6.8	na	5.0	2.3 J	5.8	2.9 J
Total benzofluoranthenes	mg/kg OC	230	450	37	14	17	15	na	40	43	63	na	66	22	94	11 J
Chrysene	mg/kg OC	110	460	11	4.5	7.0	8.2	na	21	17	23	na	50	14	76	7.4
Dibenzo(a,h)anthracene	mg/kg OC	12	33	3.5 U	1.2 U	1.2 U	2.0	na	2.5 U	3.0 U	3.7 U	na	1.5	2.6 U	4.9	1.4

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC14					LDW-SC15				LDW-SC16			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC14-0-1.4	LDW-SC14-1.4-2	LDW-SC14-2-4.1	LDW-SC14-4.1-6	LDW-SC14-6-8.7	LDW-SC15-0-1	LDW-SC15-1-2	LDW-SC15-2-4	LDW-SC15-4-6	LDW-SC16-0-2	LDW-SC16-2-4	LDW-SC16-4-6	LDW-SC16-8-10
Dibenzofuran	mg/kg OC	15	58	3.5 U	1.2 U	1.2 U	3.6 U	na	2.5 U	3.0 U	3.7 U	na	0.99 U	2.6 U	6.7	3.8 U
Fluoranthene	mg/kg OC	160	1,200	21	9.8	9.9	14	na	20	20	35	na	**230**	44	**220**	12
Fluorene	mg/kg OC	23	79	3.5 U	1.2 U	0.76 J	3.6 U	na	2.5 U	3.0 U	3.7 U	na	0.89 J	4.7	8.9	2.4 J
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	2.7 J	0.98 J	1.5	3.0 J	na	5.1	5.1	8.0	na	5.9	2.3 J	6.3	2.4 J
Naphthalene	mg/kg OC	99	170	3.5 U	1.2 U	0.81 J	3.6 U	na	2.5 U	3.0 U	3.7 U	na	0.99 U	2.6 U	3.3	3.8 U
Phenanthrene	mg/kg OC	100	480	7.0	2.7	3.7	5.5	na	7.6	6.6	12	na	8.9	8.4	26	5.0
Pyrene	mg/kg OC	1,000	1,400	27	18	21	33	na	21	24	43	na	170	37	450	22
Total HPAH	mg/kg OC	960	5,300	120 J	57 J	67	92 J	na	140	140	220	na	580	140 J	**980**	70 J
Total LPAH	mg/kg OC	370	780	10	4.4	8.0 J	8.2 J	na	13 J	10	17	na	20 J	23	83 J	16 J
Phthalates																
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	**70**	29	15	8.8	na	15	15	30	na	20	**100**	**71**	3.8 U
Butyl benzyl phthalate	mg/kg OC	4.9	64	**5.8**	3.1	**6.4**	1.3	na	1.4	1.6	2.4	na	1.4 J	1.1 J	0.54 J	0.38 U
Diethyl phthalate	mg/kg OC	61	110	3.5 U	1.2 U	1.2 U	3.6 U	na	2.5 U	3.0 U	3.7 U	na	0.99 U	2.6 U	2.9 U	3.8 U
Dimethyl phthalate	mg/kg OC	53	53	3.5 U	1.2 U	1.2 U	0.36 U	na	2.5 U	3.0 U	3.7 U	na	0.99 U	2.6 U	2.0 UJ	0.38 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	3.5 U	0.74 J	1.3 U	3.6 U	na	1.3 J	1.6 J	2.7 J	na	0.99 U	2.6 U	3.0	3.8 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	3.5 U	1.2 U	1.2 U	3.6 U	na	2.5 U	3.0 U	3.7 U	na	0.99 U	2.6 U	2.9 U	3.8 U
Other SVOCs																
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.41	0.33 J	0.27 J	0.36 U	na	0.25 U	0.30 U	0.37 U	na	0.29 U	0.26 U	0.80	0.38 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.38	0.33 J	0.34 U	0.36 U	na	0.25 U	0.30 U	0.37 U	na	0.29 U	0.24 J	0.54	0.38 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	60 U	20 U	20 U	6.6 U	na	59 U	59 U	60 U	na	20 U	78 U	6.5 U	6.6 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.35	0.21 J	0.34 U	0.29 J	na	0.15 J	0.30 U	0.19 J	na	0.29 U	0.18 J	0.41	0.38 U
2,4-Dimethylphenol	µg/kg dw	29	29	6.0 UJ	5.9 UJ	5.9 UJ	7.3 J	na	5.9 U	5.9 U	6.0 U	na	18 UJ	20 UJ	6.5 UJ	6.6 UJ
2-Methylphenol	µg/kg dw	63	63	6.0 U	5.9 U	5.9 U	6.6 U	na	5.9 U	5.9 U	6.0 U	na	3.0 J	7.8 UJ	6.5 U	6.6 U
4-Methylphenol	µg/kg dw	670	670	60 U	20 U	20 U	66 U	na	42 J	59 U	60 U	na	20 U	78 U	65 U	66 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC14					LDW-SC15				LDW-SC16			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC14-0-1.4	LDW-SC14-1.4-2	LDW-SC14-2-4.1	LDW-SC14-4.1-6	LDW-SC14-6-8.7	LDW-SC15-0-1	LDW-SC15-1-2	LDW-SC15-2-4	LDW-SC15-4-6	LDW-SC16-0-2	LDW-SC16-2-4	LDW-SC16-4-6	LDW-SC16-8-10
Benzoic acid	µg/kg dw	650	650	97	82	120	590 U	na	130 J	120 J	130 J	na	63 UJ	86 UJ	590 U	590 U
Benzyl alcohol	µg/kg dw	57	73	30 U	30 U	29 U	33 U	na	30 U	30 U	30 U	na	30 UJ	28 J	52	33 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.35 U	0.36 U	0.28 U	0.36 U	na	0.25 U	0.30 U	0.37 U	na	0.29 U	0.26 U	0.29 U	0.38 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.35 U	0.36 U	0.28 U	0.36 U	na	0.25 U	0.30 U	0.37 U	na	0.29 U	0.26 U	0.29 U	0.38 U
Hexachloroethane	µg/kg dw	1,400	14,000	60 U	20 U	20 U	66 U	na	59 U	59 U	60 U	na	20 U	78 U	65 U	66 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	1.5 U	1.2 U	1.5 U	4.1 U	na	1.1 U	1.2 U	2.3 U	na	1.8 U	7.4 U	8.5 U	1.9 U
Pentachlorophenol	µg/kg dw	360	690	30 U	30 U	29 U	39	na	28 J	24 J	43	na	30 U	39 U	50	33 U
Phenol	µg/kg dw	420	1,200	60 U	18 J	13 J	66 U	na	38 J	59 U	51 J	na	21	57 J	65 U	66 U
Polychlorinated biphenyls																
Total PCBs	mg/kg OC	12	65	**260**	**130**	**90**	**23**	4.5	**15**	**17 J**	**31**	**89**	**16 J**	**180**	**150**	1.0 J
Pesticides																
Total DDTs	µg/kg dw	6.9	69	**150 U**	**100 U**	**71 U**	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	10	nv	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	10	nv	**31 U**	**18 U**	9.8 U	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	10	nv	8.7 U	9.2 U	4.9 U	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	10	nv	**75 U**	**47 U**	**25 U**	na	na	na	na	na	na	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6e. 1- and 2-ft intervals, samples SC17-SC20

1- AND 2-FT INTERVALS				LDW-SC17			LDW-SC18			LDW-SC19					LDW-SC20			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC17-0-1	LDW-SC17-1-2	LDW-SC17-6-8.2	LDW-SC18-0-1	LDW-SC18-1-2	LDW-SC18-2-4	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC19-4-6	LDW-SC19-6-7	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10
Metals and trace elements																		
Antimony	mg/kg dw	150	200	20 J	40 J	13 J	6 UJ	6 UJ	6 UJ	10 UJ	10 UJ	8 UJ	na	na	10 UJ	*9 UJ*	na	na
Arsenic	mg/kg dw	57	93	**110**	**170**	**76**	11	6 U	6 U	20	20	24	na	na	20	*17*	na	na
Cadmium	mg/kg dw	5.1	6.7	4.5	**7.6**	**20.4**	0.3	0.2 U	0.2 U	0.4 U	0.4 U	0.3 U	na	na	1.9	*0.7*	na	na
Chromium	mg/kg dw	260	270	47	47	50.3	22.0	14.3	10.5	36	35	30.6	na	na	67	*34.7*	na	na
Copper	mg/kg dw	390	390	187	224	235	37.9	18.5	12.7	101	89.2	87.9	na	na	90.4	*57.0*	na	na
Lead	mg/kg dw	450	530	173	286	**470**	22	7	2 U	60	50	70	na	na	82	*33*	na	na
Mercury	mg/kg dw	0.41	0.59	**0.5**	**0.6**	**0.75**	0.11	0.05 U	0.05 U	0.34	0.25	0.21	na	na	**0.65**	*0.35*	na	na
Nickel	mg/kg dw	140	370	36	38	69	14	10	7	24	26	22	na	na	28	*22*	na	na
Silver	mg/kg dw	6.1	6.1	1.0	1.4	2.2	0.4 U	0.4 U	0.4 U	0.6 U	0.6 U	0.5 U	na	na	2.3	*0.6*	na	na
Zinc	mg/kg dw	410	960	**1,260**	**2,050**	**4,550**	79.0	34.3	20.3	162	148	150	na	na	173	*104*	na	na
PAHs																		
2-Methylnaphthalene	mg/kg OC	38	64	2.3	3.0 U	19	3.3 U	2.1 U	1.2 U	2.6 U	3.5 U	3.8 U	na	na	1.3 U	1.3 UJ	na	na
Acenaphthene	mg/kg OC	16	57	2.1	12	**37**	2.7 J	2.1 U	1.2 U	2.6 U	3.5 U	3.8 U	na	na	1.3 U	1.3 UJ	na	na
Acenaphthylene	mg/kg OC	66	66	2.2	2.8 J	3.0	3.3 U	2.1 U	1.2 U	2.0 J	2.8 J	3.8 U	na	na	0.74 J	1.3 UJ	na	na
Anthracene	mg/kg OC	220	1,200	17	49	52	8.5	2.1 U	1.2 U	6.6	7.6	4.0	na	na	2.9	1.4 J	na	na
Benzo(a)anthracene	mg/kg OC	110	270	36	46 J	65	28	1.7 J	1.2 U	17	11	9.6	na	na	5.8	2.5 J	na	na
Benzo(a)pyrene	mg/kg OC	99	210	42	43	49	19	2.8	1.2 U	13	23	13	na	na	6.3	2.6 J	na	na
Benzo(g,h,i)perylene	mg/kg OC	31	78	8.2	15	11	4.6	2.1 U	1.2 U	3.6	4.0	4.0	na	na	1.3 J	1.3 UJ	na	na
Total benzofluoranthenes	mg/kg OC	230	450	110	98	120	55	7.3	1.2 U	49	84	50	na	na	18	8.4 J	na	na
Chrysene	mg/kg OC	110	460	59	74 J	80	42	1.8 J	1.2 U	31	26	15	na	na	8.1	3.3 J	na	na
Dibenzo(a,h)anthracene	mg/kg OC	12	33	2.6	4.3	8.0	3.3 U	2.1 U	1.2 U	1.7 J	2.4 J	3.8 U	na	na	1.3 U	1.3 UJ	na	na
Dibenzofuran	mg/kg OC	15	58	2.5	6.5	**22**	3.3 U	2.1 U	1.2 U	2.6 U	3.5 U	3.8 U	na	na	1.3 U	1.3 UJ	na	na
Fluoranthene	mg/kg OC	160	1,200	65	**170**	**220**	150	3.7	1.2 U	29	16	17	na	na	19	11 J	na	na
Fluorene	mg/kg OC	23	79	3.6	10	**43**	2.0 J	2.1 U	1.2 U	2.0 J	2.9 J	3.8 U	na	na	0.81 J	1.3 UJ	na	na
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	10	18 J	9.9	5.3	2.1 U	1.2 U	4.0	5.4	4.4	na	na	1.2 J	1.3 UJ	na	na
Naphthalene	mg/kg OC	99	170	3.9	4.6	37	2.0 J	2.1 U	1.2 U	2.6 U	3.5 U	3.8 U	na	na	0.81 J	1.3 UJ	na	na

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC17			LDW-SC18			LDW-SC19					LDW-SC20			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC17-0-1	LDW-SC17-1-2	LDW-SC17-6-8.2	LDW-SC18-0-1	LDW-SC18-1-2	LDW-SC18-2-4	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC19-4-6	LDW-SC19-6-7	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10
Phenanthrene	mg/kg OC	100	480	18	37	**130**	16	2.1 U	1.2 U	11	12	10	na	na	4.4	3.1 J	na	na
Pyrene	mg/kg OC	1,000	1,400	78	110 J	230	96	7.9	1.2 U	53 J	120 J	51 J	na	na	21	11 J	na	na
Total HPAH	mg/kg OC	960	5,300	420	580 J	790	400	25 J	1.2 U	200 J	290 J	160 J	na	na	82 J	38 J	na	na
Total LPAH	mg/kg OC	370	780	47	120 J	300	32 J	2.1 U	1.2 U	21 J	25 J	14	na	na	9.7 J	4.5 J	na	na
Phthalates																		
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	19	14 J	31	4.9	1.9 J	1.2 U	9.6	8.2	17	na	na	42	4.7 J	na	na
Butyl benzyl phthalate	mg/kg OC	4.9	64	1.3	1.4	0.46 J	0.33 U	0.61 U	0.36 U	1.5	0.82	0.96	na	na	2.8	1.1	na	na
Diethyl phthalate	mg/kg OC	61	110	2.0 U	3.0 U	2.0 U	3.3 U	2.1 U	1.2 U	2.6 U	3.5 U	3.8 U	na	na	1.3 U	1.3 UJ	na	na
Dimethyl phthalate	mg/kg OC	53	53	2.0 U	3.0 U	2.1 J	3.3 U	2.1 U	1.2 U	2.6 U	3.5 U	3.8 U	na	na	1.3 U	1.3 UJ	na	na
Di-n-butyl phthalate	mg/kg OC	220	1,700	2.0 U	3.0 U	2.0 U	3.3 U	6.4	0.86 J	2.6 U	3.5 U	1.9 J	na	na	1.6	1.5 J	na	na
Di-n-octyl phthalate	mg/kg OC	58	4,500	2.0 U	3.0 U	2.0 U	3.3 U	2.1 U	1.2 U	2.6 U	3.5 U	3.8 U	na	na	1.3 U	1.3 UJ	na	na
Other SVOCs																		
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.30 J	0.52 J	0.20 U	0.33 U	0.61 U	0.36 U	0.26 U	0.35 U	0.38 U	na	na	0.40 U	0.40 U	na	na
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.20 U	0.18 U	0.20 U	0.33 U	0.61 U	0.36 U	0.26 U	0.35 U	0.38 U	na	na	0.40 U	0.40 U	na	na
1,3-Dichlorobenzene	µg/kg dw	170	nv	62 U	99 U	6.6 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	20 U	20 UJ	na	na
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.52	0.13 J	0.12 J	0.33 U	0.61 U	0.36 U	0.26 U	0.35 U	0.38 U	na	na	0.40 U	1.3	na	na
2,4-Dimethylphenol	µg/kg dw	29	29	6.2 UJ	14 J	24 J	5.9 U	5.9 U	5.9 U	6.0 U	6.0 U	5.9 U	na	na	6.0 U	6.0 U	na	na
2-Methylphenol	µg/kg dw	63	63	5.0 J	16	6.6	5.9 U	5.9 U	5.9 U	4.8 J	6.0 U	5.9 U	na	na	6.0 U	6.0 U	na	na
4-Methylphenol	µg/kg dw	670	670	62 U	99 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	20 U	20 U	na	na
Benzoic acid	µg/kg dw	650	650	320	320	590 U	78 J	54 J	59 U	210 J	88 J	100 J	na	na	93	67	na	na
Benzyl alcohol	µg/kg dw	57	73	**140**	38	33 U	29 U	30 U	29 U	30 U	30 U	30 U	na	na	30 U	30 U	na	na
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.20 U	0.18 UJ	0.20 U	0.33 U	**0.61 U**	0.36 U	0.26 U	0.35 U	0.38 U	na	na	**0.40 U**	0.13 U	na	na
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.20 U	0.18 U	0.20 U	0.33 U	0.61 U	0.36 U	0.26 U	0.35 U	0.38 U	na	na	0.40 U	0.13 U	na	na
Hexachloroethane	µg/kg dw	1,400	14,000	62 U	99 U	66 U	59 U	20 U	20 U	60 U	59 U	59 U	na	na	20 U	20 UJ	na	na
N-Nitrosodiphenylamine	mg/kg OC	11	11	5.9 UJ	**19 UJ**	**80 U**	1.8 U	0.61 U	0.36 U	1.3 UJ	1.3 UJ	1.7 UJ	na	na	2.6 U	2.1 U	na	na
Pentachlorophenol	µg/kg dw	360	690	64	120 J	120	29 U	30 U	29 U	17 J	30 U	20 J	na	na	30 U	30 U	na	na
Phenol	µg/kg dw	420	1,200	62 U	69 J	66 U	59 U	20 U	20 U	170	82	59 U	na	na	20 U	20 U	na	na
Polychlorinated biphenyls																		
Total PCBs	mg/kg OC	12	65	**40**	**32**	**59**	10	2.0	0.24 U	12	**14**	**16**	**35**	**160**	**210**	**40**	**18**	5.1

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC17			LDW-SC18			LDW-SC19					LDW-SC20			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC17-0-1	LDW-SC17-1-2	LDW-SC17-6-8.2	LDW-SC18-0-1	LDW-SC18-1-2	LDW-SC18-2-4	LDW-SC19-0-1	LDW-SC19-1-2	LDW-SC19-2-4	LDW-SC19-4-6	LDW-SC19-6-7	LDW-SC20-0-2	LDW-SC20-2-4	LDW-SC20-4-6	LDW-SC20-8-10
Pesticides																		
Total DDTs	µg/kg dw	6.9	69	na	na	na	na	na	na	na	na	na	na	na	**<u>150 U</u>**	**32 U**	na	na
Aldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
Dieldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	**28 UJ**	10 UJ	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
Heptachlor	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	9.1 U	1.9 U	na	na
Total chlordane	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	**62 U**	3.8 U	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **<u>bold underline</u>** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6f. 1- and 2-ft intervals, samples SC21-SC24

1- AND 2-FT INTERVALS				LDW-SC21					LDW-SC22			LDW-SC23					LDW-SC24
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC21-0-1	LDW-SC21-1-2	LDW-SC21-2-4	LDW-SC21-4-6.2	LDW-SC21-10-11.3	LDW-SC22-0-1.1	LDW-SC22-1.1-2	LDW-SC22-2-4	LDW-SC23-0-2	LDW-SC23-2-4	LDW-SC23-4-6	LDW-SC23-6-8	LDW-SC23-8-10.2	LDW-SC24-0-1
Metals and trace elements																	
Antimony	mg/kg dw	150	200	*10 UJ*	9 UJ	8 UJ	na	na	*7 UJ*	6 UJ	6 UJ	8 UJ	9 UJ	na	na	na	9 UJ
Arsenic	mg/kg dw	57	93	*20*	19	34	na	na	*12*	8	7	18	20	na	na	na	30
Cadmium	mg/kg dw	5.1	6.7	*0.7*	0.4 U	0.6	na	na	*0.3*	0.3	0.3 U	0.5	0.4 U	na	na	na	0.4
Chromium	mg/kg dw	260	270	*36*	34.0	32.6	na	na	*19.4*	18.9	13.0	29.5	33.4	na	na	na	34.1
Copper	mg/kg dw	390	390	*95.5*	85.7	114	na	na	*52.9 J*	28.1 J	17.7 J	67.7	73.3	na	na	na	142
Lead	mg/kg dw	450	530	*55*	46	107	na	na	*46*	36	25	56 J	46 J	na	na	na	69
Mercury	mg/kg dw	0.41	0.59	*0.3*	0.20	0.26	na	na	*0.14*	0.14	0.06 U	0.20	0.20	na	na	na	0.26
Nickel	mg/kg dw	140	370	*25*	27	21	na	na	*17 J*	15 J	9 J	22	28	na	na	na	24
Silver	mg/kg dw	6.1	6.1	*0.6 U*	0.6 U	0.5 U	na	na	*0.4 U*	0.4 U	0.4 U	0.5 U	0.6 U	na	na	na	0.5 U
Zinc	mg/kg dw	410	960	*155*	133	189	na	na	*76.0*	67.9	47.9	122 J	159 J	na	na	na	195
PAHs																	
2-Methylnaphthalene	mg/kg OC	38	64	3.0 U	4.0 U	3.6 U			1.3	0.92 U	1.4 U	2.8 U	2.8 U	4.5 U	na	na	2.9 U
Acenaphthene	mg/kg OC	16	57	3.0 U	4.0 U	3.6 U	na	na	8.7	1.1	1.4 U	2.8 U	16	4.5 U	na	na	2.9 U
Acenaphthylene	mg/kg OC	66	66	3.0 U	4.0 U	3.6 U	na	na	0.52 J	0.83 J	1.4 U	2.8 U	4.4	4.5 U	na	na	2.9 U
Anthracene	mg/kg OC	220	1,200	4.7	3.6 J	4.5	na	na	13	1.6	1.4 U	3.1	75	3.6 J	na	na	4.1
Benzo(a)anthracene	mg/kg OC	110	270	12	10	14	na	na	5.7	2.3	1.4 U	9.0	**150**	12	na	na	11
Benzo(a)pyrene	mg/kg OC	99	210	14	15	22	na	na	4.0	4.1	1.4 U	11	**120**	14	na	na	18
Benzo(g,h,i)perylene	mg/kg OC	31	78	2.9 J	5.9	5.9	na	na	1.7	1.8	1.4 U	2.1 J	23	6.8	na	na	3.9
Total benzofluoranthenes	mg/kg OC	230	450	47	36	54	na	na	9.1	7.2	1.4 U	32	**280**	33	na	na	51
Chrysene	mg/kg OC	110	460	23	15	20	na	na	7.0	3.1	1.4 U	14	**340**	15	na	na	18
Dibenzo(a,h)anthracene	mg/kg OC	12	33	3.0 U	4.0 U	1.8 J	na	na	0.87 U	0.92 U	1.4 U	2.8 U	8.4	2.9	na	na	2.9 U
Dibenzofuran	mg/kg OC	15	58	3.0 U	4.0 U	3.6 U	na	na	5.2	0.92 U	1.4 U	2.8 U	5.1	4.5 U	na	na	2.9 U
Fluoranthene	mg/kg OC	160	1,200	27	20	37	na	na	25	6.9	0.83 J	21 J	**350 J**	29	na	na	24
Fluorene	mg/kg OC	23	79	3.0 U	4.0 U	3.6 U	na	na	7.8	0.92	1.4 U	2.8 U	12	4.5 U	na	na	2.9 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC21					LDW-SC22			LDW-SC23					LDW-SC24
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC21-0-1	LDW-SC21-1-2	LDW-SC21-2-4	LDW-SC21-4-6.2	LDW-SC21-10-11.3	LDW-SC22-0-1.1	LDW-SC22-1.1-2	LDW-SC22-2-4	LDW-SC23-0-2	LDW-SC23-2-4	LDW-SC23-4-6	LDW-SC23-6-8	LDW-SC23-8-10.2	LDW-SC24-0-1
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	2.9 J	5.5	6.1	na	na	1.8	2.0	1.4 U	2.5 J	32 J	5.7	na	na	5.0
Naphthalene	mg/kg OC	99	170	3.0 U	4.0 U	3.6 U	na	na	2.1	1.4	1.4 U	2.8 U	2.8 U	4.5 U	na	na	2.9 U
Phenanthrene	mg/kg OC	100	480	9.1	8.1	13	na	na	25	4.6	1.4 U	4.7	56	10	na	na	7.5
Pyrene	mg/kg OC	1,000	1,400	28	27	57	na	na	24	7.3	1.0 J	30	180	51	na	na	34
Total HPAH	mg/kg OC	960	5,300	160 J	130	220 J	na	na	78	35	1.9 J	120 J	**1,500 J**	170	na	na	160
Total LPAH	mg/kg OC	370	780	14	11 J	17	na	na	57 J	11 J	1.4 U	8.0	160	14 J	na	na	12
Phthalates																	
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	18	23	37	na	na	2.4	0.92 U	1.4 U	8.5	**75**	27	na	na	20
Butyl benzyl phthalate	mg/kg OC	4.9	64	2.2	2.8	2.8	na	na	0.26 UJ	0.27 UJ	0.41 UJ	1.3	1.1	1.6	na	na	1.2
Diethyl phthalate	mg/kg OC	61	110	3.0 U	4.0 U	3.6 U	na	na	0.87 U	0.92 U	1.4 U	2.8 U	2.8 U	4.5 U	na	na	2.9 U
Dimethyl phthalate	mg/kg OC	53	53	3.0 U	4.0 U	3.6 U	na	na	0.87 U	0.92 U	1.4 U	2.8 U	2.8 U	0.45 U	na	na	2.9 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	1.5 J	4.0 U	3.6 U	na	na	1.3 U	1.7 U	1.4 U	2.8 U	2.8 U	4.5 U	na	na	2.9 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	3.0 U	4.0 U	3.6 U	na	na	0.87 U	0.92 U	1.4 U	2.8 U	2.8 U	4.5 U	na	na	2.9 U
Other SVOCs																	
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.30 U	0.40 U	0.36 U	na	na	0.26 U	0.27 U	0.41 U	0.28 U	0.28 U	0.45 U	na	na	0.30 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.30 U	0.40 U	0.36 U	na	na	0.26 U	0.27 U	0.41 U	0.28 U	0.28 U	0.45 U	na	na	0.30 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	6.6 U	na	na	58 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.30 U	0.40 U	0.36 U	na	na	0.13 J	0.27 U	0.41 U	0.28 U	0.28 U	0.27 J	na	na	0.30 U
2,4-Dimethylphenol	µg/kg dw	29	29	6.0 U	5.9 U	5.9 U	na	na	18 UJ	18 UJ	18 UJ	5.9 UJ	5.9 UJ	6.6 UJ	na	na	5.9 U
2-Methylphenol	µg/kg dw	63	63	6.0 U	5.9 U	5.9 U	na	na	5.9 UJ	5.9 UJ	5.9 UJ	7.1	10	6.6 U	na	na	5.9 U
4-Methylphenol	µg/kg dw	670	670	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U
Benzoic acid	µg/kg dw	650	650	95	120	100	na	na	59 UJ	59 UJ	59 UJ	250	240	590 U	na	na	88 J
Benzyl alcohol	µg/kg dw	57	73	30 U	30 U	29 U	na	na	30 UJ	30 UJ	30 UJ	29 U	30 U	33 U	na	na	29 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.30 U	**0.40 U**	0.36 U	na	na	0.26 U	0.27 U	**0.41 U**	0.046 U	0.046 U	**0.45 U**	na	na	0.30 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.30 U	0.40 U	0.36 U	na	na	0.26 U	0.27 U	0.41 U	0.046 U	0.046 U	0.45 U	na	na	0.30 U
Hexachloroethane	µg/kg dw	1,400	14,000	60 U	59 U	59 U	na	na	20 U	20 U	20 U	59 U	59 U	66 U	na	na	58 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	1.0 U	1.6 U	1.7 U	na	na	1.7 U	0.78 U	0.41 U	1.0 U	2.1 U	6.6 U	na	na	1.7 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC21					LDW-SC22			LDW-SC23					LDW-SC24
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC21-0-1	LDW-SC21-1-2	LDW-SC21-2-4	LDW-SC21-4-6.2	LDW-SC21-10-11.3	LDW-SC22-0-1.1	LDW-SC22-1.1-2	LDW-SC22-2-4	LDW-SC23-0-2	LDW-SC23-2-4	LDW-SC23-4-6	LDW-SC23-6-8	LDW-SC23-8-10.2	LDW-SC24-0-1
Pentachlorophenol	µg/kg dw	360	690	30 U	30 U	29 U	na	na	30 U	30 U	30 U	29 U	30 U	40	na	na	24 J
Phenol	µg/kg dw	420	1,200	60 U	59 U	59 U	na	na	24	15 J	14 J	59 U	59 U	66 U	na	na	58 U
Polychlorinated biphenyls																	
Total PCBs	mg/kg OC	12	65	**13**	9.7	**23 J**	**87**	0.29 U	2.4	1.2 J	0.54 J	8.3	10	**60**	**18**	2.5	**14**
Pesticides																	
Total DDTs	µg/kg dw	6.9	69	na	na	na	na	na	na	na	na	**18 U**	**7.4 U**	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	0.98 U	2.6 U	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	2.0 U	2.7 U	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	2.6 U	0.99 U	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	0.98 U	0.99 U	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	4.7 U	2.1 U	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6g. 1- and 2-ft intervals, samples SC25-SC27

1- AND 2-FT INTERVALS				LDW-SC25				LDW-SC26					LDW-SC27	
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC25-0-1	LDW-SC25-1-2	LDW-SC25-2-4	LDW-SC25-4-6	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC26-11.1-12.1	LDW-SC27-0-2	LDW-SC27-2-4.5
Metals and trace elements														
Antimony	mg/kg dw	150	200	10 UJ	16 J	30 J	30 J	10 UJ	9 UJ	10 J	***280 J***	6 UJ	9 UJ	8 UJ
Arsenic	mg/kg dw	57	93	50	**91**	**170**	**250**	40	36	**67**	***1,890***	6 U	19	17
Cadmium	mg/kg dw	5.1	6.7	0.4	0.5	0.8 U	1.5	0.5	0.5	0.6	*4*	0.3 U	1.5	0.9
Chromium	mg/kg dw	260	270	42	44.7	45	55	37	61.7	38.7	*160*	14.0	56.9	35.3
Copper	mg/kg dw	390	390	327	339	**541**	**663**	146	173	**544**	***1,950***	23.0	85.2 J	46.7 J
Lead	mg/kg dw	450	530	76	98	173	310	58 J	57 J	91 J	***1,350***	9	108	43
Mercury	mg/kg dw	0.41	0.59	0.27	0.30	0.40		0.28 J	0.28 J	**0.69 J**	***4.34***		**0.52**	0.41
Nickel	mg/kg dw	140	370	24	26	27	28	27	32	26	*60*	12	27 J	19 J
Silver	mg/kg dw	6.1	6.1	0.6 U	0.5 U	1 U	1 U	0.6 U	0.5 U	0.8	*3*	0.4 U	1.9	0.9
Zinc	mg/kg dw	410	960	263	**503**	**750**	**1,420**	198	191	319	***3,700***	43.1	190	103
PAHs														
2-Methylnaphthalene	mg/kg OC	38	64	3.5 U	4.1 U	3.6 U	na	7.1 U	2.9 U	4.8 U	5.9	na	2.6 U	0.94 U
Acenaphthene	mg/kg OC	16	57	2.0 J	2.4 J	7.1	na	7.1 U	2.9 U	4.8 U	**48**	na	2.6 U	0.94 U
Acenaphthylene	mg/kg OC	66	66	3.5 U	2.1 J	3.6 U	na	7.1 U	2.9 U	4.8 U	3.4 J	na	2.6 U	0.94 U
Anthracene	mg/kg OC	220	1,200	8.8	10	13	na	5.6 J	2.5 J	3.6 J	69	na	3.0	1.6
Benzo(a)anthracene	mg/kg OC	110	270	26	43	39	na	19	8.3	15	**200**	na	6.7	2.5
Benzo(a)pyrene	mg/kg OC	99	210	26	40	41	na	24	13	19	**150**	na	10	3.9
Benzo(g,h,i)perylene	mg/kg OC	31	78	6.7	9.5	9.5	na	5.8 J	4.0	5.8	**53**	na	2.8	1.1
Total benzofluoranthenes	mg/kg OC	230	450	64	110	96	na	64	32	45	**280**	na	27	9.0
Chrysene	mg/kg OC	110	460	47	67	54	na	28	14	20	**210**	na	13	5.7
Dibenzo(a,h)anthracene	mg/kg OC	12	33	3.5 U	3.3 J	3.1 J	na	7.1 U	2.9 U	4.8 U	**21 J**	na	2.6 U	0.94 U
Dibenzofuran	mg/kg OC	15	58	3.5 U	4.1 U	3.3 J	na	7.1 U	2.9 U	4.8 U	**19**	na	2.6 U	0.94 U
Fluoranthene	mg/kg OC	160	1,200	47	95	120	na	36	18	36	**530**	na	13	4.0
Fluorene	mg/kg OC	23	79	2.7 J	2.5 J	4.5	na	7.1 U	2.9 U	4.8 U	22	na	2.6 U	0.94 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC25				LDW-SC26					LDW-SC27	
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC25-0-1	LDW-SC25-1-2	LDW-SC25-2-4	LDW-SC25-4-6	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC26-11.1-12.1	LDW-SC27-0-2	LDW-SC27-2-4.5
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	9.3	14	12	na	7.9	5.4	7.7	**53**	na	3.2	1.1
Naphthalene	mg/kg OC	99	170	3.5 U	4.1 U	2.4 J	na	7.1 U	2.9 U	4.8 U	12	na	2.6 U	0.57 J
Phenanthrene	mg/kg OC	100	480	21	23	31	na	14	5.4	12	**300**	na	7.1	2.8
Pyrene	mg/kg OC	1,000	1,400	47	120	95	na	33	20	42	520	na	34	9.9
Total HPAH	mg/kg OC	960	5,300	270	500 J	470 J	na	220 J	110	190	**2,000 J**	na	110	37
Total LPAH	mg/kg OC	370	780	35 J	40 J	59 J	na	19 J	7.8 J	15 J	**450 J**	na	10	5.0 J
Phthalates														
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	18	22	44	na	24	16	28	**200**	na	41	2.6
Butyl benzyl phthalate	mg/kg OC	4.9	64	1.4	2.2	3.7	na	3.4	1.8	2.0	1.6 J	na	0.76 J	0.28 UJ
Diethyl phthalate	mg/kg OC	61	110	3.5 U	4.1 U	3.6 U	na	7.1 U	2.9 U	4.8 U	3.5 U	na	2.6 U	0.94 U
Dimethyl phthalate	mg/kg OC	53	53	3.5 U	4.1 U	3.6 U	na	7.1 U	2.9 U	4.8 U	1.1	na	2.6 U	0.94 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	3.5 U	5.6 U	3.6 U	na	7.1 U	2.9 U	4.8 U	3.5 U	na	2.6 U	1.2 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	3.5 U	4.1 U	3.6 U	na	7.1 U	2.9 U	4.8 U	3.0 J	na	2.6 U	0.94 U
Other SVOCs														
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.35 UJ	0.41 UJ	0.36 UJ	na	0.42 U	0.29 U	0.29 U	0.52	na	0.26	0.28 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.35 U	0.41 U	0.46	na	0.42 U	0.29 U	0.43	**3.9**	na	0.19 J	0.28 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	68 U	60 U	60 U	na	99 U	60 U	100 U	6.5 U	na	59 U	20 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.35 U	0.41 U	0.25 J	na	0.26 J	0.29 U	0.23 J	0.59	na	0.19 J	0.28 U
2,4-Dimethylphenol	µg/kg dw	29	29	6.8 UJ	6.0 UJ	7.8	na	5.9 UJ	6.0 UJ	6.0 UJ	24 J	na	18 UJ	17 UJ
2-Methylphenol	µg/kg dw	63	63	4.1 J	6.0 U	8.4 J	na	5.9 UJ	6.0 UJ	6.0 UJ	12	na	3.6 J	5.9 UJ
4-Methylphenol	µg/kg dw	670	670	68 U	60 U	60 U	na	99 U	60 U	100 U	48 J	na	59 U	20 U
Benzoic acid	µg/kg dw	650	650	75 UJ	60 UJ	77 U	na	160	100	80	590 U	na	79 UJ	59 UJ
Benzyl alcohol	µg/kg dw	57	73	26 J	19 J	20 J	na	30 U	30 U	30 U	33 U	na	20 J	29 UJ
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.35 U	**0.41 U**	0.36 U	na	**0.42 U**	0.29 U	0.29 U	0.35 U	na	0.26 U	0.28 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.35 U	0.41 U	0.36 U	na	0.42 U	0.29 U	0.29 U	0.35 U	na	0.26 U	0.28 U
Hexachloroethane	µg/kg dw	1,400	14,000	68 U	60 U	60 U	na	99 U	60 U	100 U	65 U	na	59 U	20 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	1.7 U	2.2 U	3.4 U	na	2.1 U	1.2 U	1.8 U	**34 U**	na	1.9 U	0.90 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC25				LDW-SC26					LDW-SC27	
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC25-0-1	LDW-SC25-1-2	LDW-SC25-2-4	LDW-SC25-4-6	LDW-SC26-0-1	LDW-SC26-1-2	LDW-SC26-2-4	LDW-SC26-6-8	LDW-SC26-11.1-12.1	LDW-SC27-0-2	LDW-SC27-2-4.5
Pentachlorophenol	µg/kg dw	360	690	20 J	21 J	37 J	na	20 J	30 U	24 J	**800**	na	30 U	29 U
Phenol	µg/kg dw	420	1,200	68 U	60 U	60 U	na	99 U	60 U	100 U	65 U	na	59 U	18 J
Polychlorinated biphenyls														
Total PCBs	mg/kg OC	12	65	**16**	**24**	**25**	**49 J**	**20**	11	**15**	**120**	**15**	**150**	12 J
Pesticides														
Total DDTs	µg/kg dw	6.9	69	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6h. 1- and 2-ft intervals, samples SC28-SC32

1- AND 2-FT INTERVALS				LDW-SC28					LDW-SC29		LDW-SC30	LDW-SC31		LDW-SC32			
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4	LDW-SC28-5.5-7.5	LDW-SC28-12-12.6	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC30-0-2.5	LDW-SC31-0-1	LDW-SC31-1-2.8	LDW-SC32-0-1	LDW-SC32-1-2	LDW-SC32-2-4	LDW-SC32-5.2-8
Metals and trace elements																	
Antimony	mg/kg dw	150	200	*25 J*	9 UJ	10 J	130 J	7 UJ	7 UJ	6 UJ	6 UJ	10 UJ	9 UJ	*8 UJ*	10 UJ	10 UJ	na
Arsenic	mg/kg dw	57	93	***114***	18	30	**760**	17	14	11	6 U	20	17	*20*	40	30	na
Cadmium	mg/kg dw	5.1	6.7	*0.6*	0.6	0.4 U	1.4	0.6	0.3 U	0.2 U	0.2 U	0.5	0.5	*0.6*	1.7	1.0	na
Chromium	mg/kg dw	260	270	*37.0*	32.4	33	65	28.0	20.8	14.5	11.4	35	31.1	*33.5*	46	37	na
Copper	mg/kg dw	390	390	*212*	173	197	**1,480**	68.5	51.1	20.5	11.1 J	88.4	72.9	*58.2*	90.2	60	na
Lead	mg/kg dw	450	530	*114*	40	65	**583**	37	18	6	3	49	43	*59*	87	51	na
Mercury	mg/kg dw	0.41	0.59	*0.37*	0.20	0.24	**0.72**	0.30	0.12	0.05 U	0.06 U	0.33	0.22	*0.20*	0.3	0.22	na
Nickel	mg/kg dw	140	370	*23*	23	25	37	17	15	12	7 J	22	21	*22*	30	23	na
Silver	mg/kg dw	6.1	6.1	*0.5 U*	0.5 U	0.6 U	2	0.5	0.4 U	0.4 U	0.4 U	0.6 U	0.6 U	*0.5*	1.1	1.0	na
Zinc	mg/kg dw	410	960	*405*	203	244	**1,880**	97.5	77.9	38.4	27.3	139	131	*136*	287	160	na
PAHs																	
2-Methylnaphthalene	mg/kg OC	38	64	2.3 U	2.9 U	1.9 U	4.1 U	4.7 U	3.3 U	1.9 U	3.5 U	2.3 U	2.7 U	3.2 U	7.4	6.0	9.1 U
Acenaphthene	mg/kg OC	16	57	2.3 U	2.9 U	1.9 U	14	2.4 J	3.3 U	1.9 U	3.5 U	2.3 U	2.7 U	3.2 U	**120**	**20**	9.1 U
Acenaphthylene	mg/kg OC	66	66	2.3 U	2.9 U	1.9 U	4.1 U	4.7 U	3.3 U	1.0 J	3.5 U	2.3 U	2.7 U	3.2 U	5.1 U	1.4 U	9.1 U
Anthracene	mg/kg OC	220	1,200	3.9	2.3 J	1.5 J	28	2.4 J	3.3 U	2.5	3.5 U	2.8	2.2 J	2.3 J	31	5.7	9.1 U
Benzo(a)anthracene	mg/kg OC	110	270	12	7.7	4.5	81	8.4	1.8 J	10	3.1 J	9.5	6.9	6.6	85	10	9.1 U
Benzo(a)pyrene	mg/kg OC	99	210	10	7.2	5.4	59	9.2	1.8 J	10	3.3 J	8.7	9.2	8.8	34	7.5	9.1 U
Benzo(g,h,i)perylene	mg/kg OC	31	78	4.6	4.0	2.4	27	4.7 J	3.3 U	2.5	3.5 U	3.1	2.3 J	3.2 U	3.7 J	1.4	9.1 U
Total benzofluoranthenes	mg/kg OC	230	450	31	19	15	110	18	5.7 J	22	10	23	27	25	120	26	9.1 U
Chrysene	mg/kg OC	110	460	27	12	8.6	87	8.4	2.4 J	12	4.6	13	11	9.4	77	14	9.1 U
Dibenzo(a,h)anthracene	mg/kg OC	12	33	1.3 J	2.0 J	1.2 J	12	3.3	3.3 U	1.0 J	3.5 U	2.3 U	2.7 U	3.2 U	5.1 U	1.4 U	0.91 U
Dibenzofuran	mg/kg OC	15	58	2.3 U	2.9 U	1.9 U	5.0	4.7 U	3.3 U	1.9 U	3.5 U	2.3 U	2.7 U	3.2 U	**100**	12	9.1 U
Fluoranthene	mg/kg OC	160	1,200	37	6.3	3.8	**250**	24	2.4 J	19	7.8	24	15	12	**220**	40	9.1 U
Fluorene	mg/kg OC	23	79	1.5 J	2.9 U	1.9 U	9.9	4.7 U	3.3 U	1.9 U	3.5 U	2.3 U	2.7 U	3.2 U	**160**	18	9.1 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC28					LDW-SC29		LDW-SC30	LDW-SC31		LDW-SC32			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4	LDW-SC28-5.5-7.5	LDW-SC28-12-12.6	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC30-0-2.5	LDW-SC31-0-1	LDW-SC31-1-2.8	LDW-SC32-0-1	LDW-SC32-1-2	LDW-SC32-2-4	LDW-SC32-5.2-8
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	5.0	4.3	2.7	25	5.3	3.3 U	2.7	3.5 U	3.9	2.6 J	2.0 J	5.2	1.5	9.1 U
Naphthalene	mg/kg OC	99	170	2.3 U	2.9 U	1.9 U	2.8 J	6.1	3.3 U	1.9 U	3.5 U	2.3 U	2.7 U	3.2 U	12	9.5	9.1 U
Phenanthrene	mg/kg OC	100	480	12	5.8	3.8	**110**	7.0	3.3 U	7.7	2.8 J	5.6	4.6	4.9	**320**	31	9.1 U
Pyrene	mg/kg OC	1,000	1,400	37	17 J	13 J	220	23	5.2 J	29 J	4.8	16	20	23	100	25	9.1 U
Total HPAH	mg/kg OC	960	5,300	170 J	80 J	56 J	880	100 J	19 J	110 J	34 J	100	94 J	87 J	640 J	130	9.1 U
Total LPAH	mg/kg OC	370	780	17 J	8.2 J	5.4 J	160 J	18 J	3.3 U	11 J	2.8 J	8.3	6.9 J	7.2 J	**650**	84	9.1 U
Phthalates																	
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	20 U	15 U	8.9 U	**62**	7.3	2.3 J	1.9 U	5.5	11	12	11	**56**	31	9.1 U
Butyl benzyl phthalate	mg/kg OC	4.9	64	1.3	1.3	0.83	1.7	0.47 U	0.33	0.56 U	1.1 U	1.5	0.96	1.8	3.8	3.1	0.91 U
Diethyl phthalate	mg/kg OC	61	110	2.3 U	2.9 U	1.9 U	4.1 U	4.7 U	3.3 U	1.9 U	3.5 U	2.3 U	2.7 U	3.2 U	5.1 U	1.4 U	9.1 U
Dimethyl phthalate	mg/kg OC	53	53	2.3 U	2.9 U	1.9 U	0.99	4.7 U	3.3 U	1.9 U	3.5 U	2.3 U	2.7 U	3.2 U	5.1 U	1.4 U	0.91 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	2.3 U	2.9 U	1.9 U	4.1 U	2.4 J	3.5	2.6	8.7	1.3 J	2.7 U	3.2 U	5.1 U	1.4 U	9.1 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	2.3 U	2.9 U	1.9 U	3.5 J	4.7 U	3.3 U	1.9 U	3.5 U	2.3 U	2.7 U	3.2 U	5.1 U	1.4 U	9.1 U
Other SVOCs																	
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.23 U	0.29 UJ	0.19 UJ	0.68	0.47 UJ	0.33 U	0.56 U	**1.1 U**	0.23 U	0.27 U	0.32 U	0.36 J	0.28 J	**0.91 U**
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.23 U	0.29 U	0.19 U	**9.9**	0.47 U	0.33 U	0.56 U	1.1 U	0.23 U	0.27 U	0.32 U	0.51 U	0.40 U	0.91 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	60 U	60 U	60 U	7.2	61 U	58 U	20 U	19 U	59 U	58 U	58 U	59 U	20 U	6.6 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.14 J	0.29 U	0.19 U	1.5	0.47 U	0.33 U	0.56 U	1.1 U	0.14 J	0.27 U	0.32 U	0.51 U	0.40 U	0.91 U
2,4-Dimethylphenol	µg/kg dw	29	29	6.0 UJ	6.0 UJ	6.0 UJ	8.5 J	4.3 J	5.9 U	5.9 U	5.8 U	5.9 U	5.9 U	5.8 UJ	5.9 UJ	11 J	6.6 UJ
2-Methylphenol	µg/kg dw	63	63	6.0 U	6.0 UJ	4.2 J	6.6	6.1 U	5.9 U	5.9 U	5.8 U	5.9 U	5.9 U	5.8 U	5.9 U	5.9 U	6.6 U
4-Methylphenol	µg/kg dw	670	670	60 U	60 U	60 U	37 J	61 U	58 U	20 U	19 U	59 U	58 U	58 U	59 U	20 U	66 U
Benzoic acid	µg/kg dw	650	650	200 J	98 J	85 J	320 J	610 U	73 J	64 J	58 U	170 J	120 J	160	59 U	59 U	600 U
Benzyl alcohol	µg/kg dw	57	73	**110**	30 U	30 U	33 U	31 U	29 U	29 U	29 U	29 U	29 U	29 U	30 U	30 U	33 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.23 U	0.29 U	0.19 U	**0.41 U**	**0.47 U**	0.33	**0.56 U**	**1.1 U**	0.19 U	0.22 U	0.32 U	**0.51 U**	**0.40 U**	**0.91 U**
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.23 U	0.29 U	0.19 U	0.41 U	0.47 U	0.33 U	0.56 U	1.1 U	0.19 U	0.22 U	0.32 U	0.51 U	0.40 U	0.91 U
Hexachloroethane	µg/kg dw	1,400	14,000	60 U	60 U	60 U	66 U	61 U	58 U	20 U	19 U	59 U	58 U	58 U	59 U	20 U	66 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	1.4 U	1.1 U	0.73 U	**19 U**	2.3 UJ	0.85 UJ	1.4 UJ	1.1 U	1.1 U	1.0 U	1.8 U	10 U	6.8 U	0.91 U
Pentachlorophenol	µg/kg dw	360	690	32	30 U	30 U	**410**	31 U	29 U	29 U	29 U	29 U	29 U	29 U	20 J	30 U	25 J

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC28					LDW-SC29		LDW-SC30	LDW-SC31		LDW-SC32			
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC28-0-1	LDW-SC28-1-2	LDW-SC28-2-4	LDW-SC28-5.5-7.5	LDW-SC28-12-12.6	LDW-SC29-0-1	LDW-SC29-1-2	LDW-SC30-0-2.5	LDW-SC31-0-1	LDW-SC31-1-2.8	LDW-SC32-0-1	LDW-SC32-1-2	LDW-SC32-2-4	LDW-SC32-5.2-8
Phenol	µg/kg dw	420	1,200	210	150	110	66 U	61 U	58 U	20 U	19 U	59 U	58 U	69	59 U	20 U	66 U
Polychlorinated biphenyls																	
Total PCBs	mg/kg OC	12	65	**17**	**17 J**	9.2	**<u>200</u>**	**41**	1.9 J	0.37 UJ	2.4	**15**	**15**	**56**	**<u>150</u>**	**<u>170</u>**	0.52 U
Pesticides																	
Total DDTs	µg/kg dw	6.9	69	na	na	na	na	na	na	na	na	**32 U**	**22 U**	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	4.9 U	4.9 U	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	9.8 U	9.9 U	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	4.9 U	4.9 U	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	4.9 U	4.9 U	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	9.8 U	9.9 U	na	na	na	na

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **<u>bold underline</u>** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6i. 1- and 2-ft intervals, samples SC33-SC34

1- AND 2-FT INTERVALS				LDW-SC33								LDW-SC34						
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC33-0-2	LDW-SC201-0-1.5 (LDW-SC33 R2)	LDW-SC33-2-4	LDW-SC201-1.5-4 (LDW-SC33 R2)	LDW-SC33-4-6	LDW-SC201-4-6	LDW-SC33-8-10	LDW-SC201-8-10	LDW-SC34-0-1	LDW-SC203-0-1 (LDW-SC34 R2)	LDW-SC34-1-2	LDW-SC203-1-2 (LDW-SC34 R2)	LDW-SC34-2-4	LDW-SC203-2-4 (LDW-SC34 R2)	LDW-SC203-4-6 (LDW-SC34 R2)
Metals and trace elements																		
Antimony	mg/kg dw	150	200	13 J	8 UJ	8 UJ	8 UJ	8 UJ	na	na	na	*10 UJ*	9 UJ	10 UJ	10 UJ	8 UJ	9 UJ	na
Arsenic	mg/kg dw	57	93	56	19	13	13	14	na	na	na	*20*	20	20	20	15	15	na
Cadmium	mg/kg dw	5.1	6.7	1.2	0.7	0.8	0.8	0.7	na	na	na	*0.4 U*	0.6	0.9	0.7	0.3 U	0.4 U	na
Chromium	mg/kg dw	260	270	49.9	37.9	37.7	34.1	38.0	na	na	na	*34*	39.5	50	41	30.9	32.0	na
Copper	mg/kg dw	390	390	190 J	88.0 J	51.0 J	48.4 J	51.8	na	na	na	*78.4*	102	91.4	88.1	51.3	66.9	na
Lead	mg/kg dw	450	530	108	**772**	33	42	33	na	na	na	*60*	78	87	68	78	58	na
Mercury	mg/kg dw	0.41	0.59	0.39 J	0.28 J	0.30 J	0.30 J	na	na	na	na	*0.26*	0.23	0.25	0.2	0.12	0.17	na
Nickel	mg/kg dw	140	370	32	24	19	18	23	na	na	na	*26*	29	29	28	33	27	na
Silver	mg/kg dw	6.1	6.1	2.6	1.1	2.2	1.7	1.4	na	na	na	*0.6 U*	0.6 U	0.6 U	0.7 U	0.5 U	0.5 U	na
Zinc	mg/kg dw	410	960	236	143	94	98	121	na	na	na	*188*	204	253	225	136	137	na
PAHs																		
2-Methylnaphthalene	mg/kg OC	38	64	3.0 U	1.1 U	1.2 UJ	1.5 U	3.0 J	3.8	4.0 U	3.9 U	3.8 U	4.9 U	4.3 U	3.8 U	4.8 U	2.7 U	2.7 U
Acenaphthene	mg/kg OC	16	57	6.0	0.64 J	4.1 J	1.6	**48**	**33**	4.0 U	3.9 U	3.8 U	4.9 U	4.3 U	3.8 U	4.8 U	2.7 U	2.7 U
Acenaphthylene	mg/kg OC	66	66	3.0 U	0.64 J	1.2 UJ	1.5 U	3.1 U	3.1 U	4.0 U	3.9 U	3.8 U	4.9 U	4.3 U	3.8 U	4.8 U	2.7 U	2.7 U
Anthracene	mg/kg OC	220	1,200	6.3	2.5	6.8 J	2.4	20	23	3.1 J	2.6 J	2.9 J	4.3 J	5.3 J	5.8	4.8 U	6.2	3.0
Benzo(a)anthracene	mg/kg OC	110	270	7.8	7.4	9.3 J	3.6	29	37	6.2	5.4	9.0	11	14	16	6.3	9.7	9.8
Benzo(a)pyrene	mg/kg OC	99	210	6.9	11	4.9 J	6.8	13	23	5.4	3.9	7.9	10	13	15	7.3	7.3	7.4
Benzo(g,h,i)perylene	mg/kg OC	31	78	1.6 J	2.2	0.86 J	1.3 J	5.2	9.9	3.3 J	2.3 J	2.2 J	2.6 J	6.6	4.8	4.8 U	2.3 J	3.6
Total benzofluoranthenes	mg/kg OC	230	450	18	30	13 J	20	30	51	9.5 J	7.5 J	23	29	33	41	21	21	20
Chrysene	mg/kg OC	110	460	15	11	10 J	5.5	27	42	7.8	6.1	12	16	24	23	9.3	14	13
Dibenzo(a,h)anthracene	mg/kg OC	12	33	3.0 U	0.74 J	1.2 UJ	1.5 U	2.7	4.7	1.5	1.2	3.8 U	4.9 U	4.3 U	3.8 U	4.8 U	2.7 U	1.6
Dibenzofuran	mg/kg OC	15	58	3.0 U	1.1 U	1.5 J	1.5 U	**18**	13	4.0 U	3.9 U	3.8 U	4.9 U	4.3 U	3.8 U	4.8 U	2.7 U	2.7 U
Fluoranthene	mg/kg OC	160	1,200	45	17	52 J	14	150	**230**	23	19	28	34	43 J	45	15	27	31
Fluorene	mg/kg OC	23	79	5.1	0.90 J	4.0 J	1.3 J	**30**	**24**	2.5 J	3.9 U	3.8 U	4.9 U	4.3 U	3.8 U	4.8 U	2.7 U	1.6 J
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	1.7 J	2.7	0.99 J	1.5 J	4.0	8.5	3.1 J	2.2 J	2.6 J	3.1 J	6.6	5.5	2.5 J	2.7	2.7

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC33								LDW-SC34						
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC33-0-2	LDW-SC201-0-1.5 (LDW-SC33 R2)	LDW-SC33-2-4	LDW-SC201-1.5-4 (LDW-SC33 R2)	LDW-SC33-4-6	LDW-SC201-4-6	LDW-SC33-8-10	LDW-SC201-8-10	LDW-SC34-0-1	LDW-SC203-0-1 (LDW-SC34 R2)	LDW-SC34-1-2	LDW-SC203-1-2 (LDW-SC34 R2)	LDW-SC34-2-4	LDW-SC203-2-4 (LDW-SC34 R2)	LDW-SC203-4-6 (LDW-SC34 R2)
Naphthalene	mg/kg OC	99	170	3.0 U	1.1 U	1.0 J	2.0	20	18	4.0 U	3.9 U	3.8 U	4.9 U	4.3 U	3.8 U	4.8 U	2.7 U	2.7 U
Phenanthrene	mg/kg OC	100	480	19	6.4	10 J	4.1	67	61	9.8	9.7	9.7	5.5	11 J	15	5.4	6.6	7.0
Pyrene	mg/kg OC	1,000	1,400	33	27	29 J	44 J	120	220	14	9.7	19	24	30 J	31	22	24	28
Total HPAH	mg/kg OC	960	5,300	130 J	110 J	120 J	96 J	390	630	73 J	57 J	100 J	130 J	170 J	180	83 J	110 J	120
Total LPAH	mg/kg OC	370	780	37	11 J	27 J	11 J	190	160	16 J	12 J	12 J	9.8 J	17 J	21	5.4	13	11 J
Phthalates																		
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	12	20	8.0 J	7.5	2.7 J	3.1 U	4.0 U	3.9 U	32	**55**	**130**	**89**	33	23	32
Butyl benzyl phthalate	mg/kg OC	4.9	64	0.33	1.5	0.36 U	0.45 U	0.31 U	0.31 U	0.40 U	0.39 U	**15**	**12**	**13**	**14**	2.1	**5.4**	2.0
Diethyl phthalate	mg/kg OC	61	110	3.0 U	1.1 U	1.2 UJ	1.5 U	3.1 U	3.1 U	4.0 U	3.9 U	3.8 U	4.9 U	4.3 U	3.8 U	4.8 U	2.7 U	2.7 U
Dimethyl phthalate	mg/kg OC	53	53	3.0 U	1.1 U	1.2 UJ	1.5 U	0.31 U	0.31 U	4.0 U	3.9 U	3.8 U	52	4.3 U	3.8 U	4.8 U	**340**	8.6
Di-n-butyl phthalate	mg/kg OC	220	1,700	3.0 U	2.1 U	1.4 UJ	1.8 U	3.1 U	3.1 U	4.0 U	3.9 U	3.8 U	4.9 U	6.0 UJ	3.8 U	4.8 U	2.7 U	2.7 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	3.0 U	1.1 U	1.2 UJ	1.5 U	3.1 U	3.1 U	4.0 U	3.9 U	3.8 U	4.9 U	7.3	3.8 U	3.1 J	2.7 U	2.7 U
Other SVOCs																		
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.19 J	0.32 J	0.36 UJ	0.45 UJ	0.31 U	0.31 U	0.40 UJ	0.39 UJ	0.23 UJ	0.28 UJ	0.26 UJ	0.38 UJ	0.29 UJ	0.27 UJ	0.27 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.18 U	0.32 U	0.36 U	0.45 U	0.31 U	0.31 U	0.40 U	0.39 U	0.23 U	0.28 U	0.15 J	0.38 U	0.29 U	0.27 U	0.27 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	99 U	20 U	20 UJ	20 U	6.5 U	6.5 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	6.6 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.18 U	0.32 U	0.36 U	0.45 U	0.28 J	0.18 J	0.40 U	0.39 U	0.14 J	0.17 J	0.23 J	0.22 J	0.29 U	0.27 U	0.27 U
2,4-Dimethylphenol	µg/kg dw	29	29	18 UJ	17 UJ	18 UJ	18 UJ	6.5 UJ	6.5 J	5.5 J	3.7 J	6.7 U	9.3 U	7.8 U	11 U	6.0 U	6.9 U	6.6 U
2-Methylphenol	µg/kg dw	63	63	5.9 U	6.0 U	5.9 U	6.0 U	6.5 U	6.5 U	6.1 U	6.1 U	6.7 J	20 J	9.3 J	11 U	6.0 U	6.9 U	6.6 U
4-Methylphenol	µg/kg dw	670	670	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
Benzoic acid	µg/kg dw	650	650	230 UJ	170 UJ	170 UJ	160 UJ	590 U	590 U	610 U	610 U	160 U	420	140 U	140 U	110 U	570	590 U
Benzyl alcohol	µg/kg dw	57	73	30 UJ	30 UJ	30 UJ	30 UJ	33 U	33 U	34 U	38 U	34	**66**	**210**	41 J	20 J	35 U	33 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.18 U	0.32 U	0.36 U	**0.45 U**	0.31 U	0.31 U	**0.40 U**	**0.39 U**	0.034 U	0.15 U	0.16 U	0.17 U	0.047 U	0.19 U	0.27 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.18 U	0.32 U	0.36 U	0.45 U	0.31 U	0.31 U	0.40 U	0.39 U	0.034 U	0.15 U	0.16 U	0.17 U	0.047 U	0.19 U	0.27 U
Hexachloroethane	µg/kg dw	1,400	14,000	99 U	20 U	20 UJ	20 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	69 U	66 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	**26 U**	1.5 U	6.2 U	2.7 U	9.5 U	8.9 U	1.8 UJ	2.4 UJ	1.7 U	3.0 U	9.6 U	6.9 U	1.6 U	1.1 U	2.5 U
Pentachlorophenol	µg/kg dw	360	690	**730**	30 U	30 U	30 U	36	36	31 U	30 U	76	47 U	39 U	54 U	30 U	35 U	63
Phenol	µg/kg dw	420	1,200	99 U	27 U	31 UJ	30 U	65 U	65 U	61 U	61 U	110 U	160 U	130 U	110 U	99 U	62 J	66 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC33								LDW-SC34						
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC33-0-2	LDW-SC201-0-1.5 (LDW-SC33 R2)	LDW-SC33-2-4	LDW-SC201-1.5-4 (LDW-SC33 R2)	LDW-SC33-4-6	LDW-SC201-4-6	LDW-SC33-8-10	LDW-SC201-8-10	LDW-SC34-0-1	LDW-SC203-0-1 (LDW-SC34 R2)	LDW-SC34-1-2	LDW-SC203-1-2 (LDW-SC34 R2)	LDW-SC34-2-4	LDW-SC203-2-4 (LDW-SC34 R2)	LDW-SC203-4-6 (LDW-SC34 R2)
Polychlorinated biphenyls																		
Total PCBs	mg/kg OC	12	65	**93**	**77**	**26**	**40 J**	**13**	**16**	0.25 UJ	0.25 U	7.2	7.6	9.3	3.8	12	6.7	7.4
Pesticides																		
Total DDTs	µg/kg dw	6.9	69	na	na	na	na	na	na	na	na	**13 U**	**32 U**	**41 U**	**12 U**	**8.3 U**	**9.7 U**	na
Aldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	0.98 U	4.9 U	4.9 U	4.9 U	0.96 U	4.9 U	na
Dieldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	2.0 U	9.8 U	9.8 U	9.8 U	1.9 U	9.7 U	na
gamma-BHC	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	3.1 U	4.9 U	4.9 U	4.9 U	0.96 U	4.9 U	na
Heptachlor	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	0.98 U	4.9 U	4.9 U	4.9 U	0.96 U	4.9 U	na
Total chlordane	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	3.2 U	9.8 U	**14 U**	9.8 U	2.3 U	9.7 U	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6j. 1- and 2-ft intervals, samples SC35-SC37

1- AND 2-FT INTERVALS				LDW-SC35		LDW-SC36						LDW-SC37			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC35-0-2	LDW-SC35-2-4	LDW-SC36-0-1	LDW-SC202-0-1 (LDW-SC36 R1)	LDW-SC36-1-2	LDW-SC202-1-2 (LDW-SC36 R1)	LDW-SC36-2-4	LDW-SC202-2-4 (LDW-SC36 R1)	LDW-SC37-0-1	LDW-SC37-1-2	LDW-SC37-2-4	LDW-SC37-5.3-6.9
Metals and trace elements														-	
Antimony	mg/kg dw	150	200	9 UJ	8 UJ	*8 UJ*	8 UJ	7 UJ	8 UJ	7 UJ	7 UJ	30 J	*30 J*	**590 J**	8 J
Arsenic	mg/kg dw	57	93	18	16	*12*	13	11	12	10	9	**150**	***121***	**2,000**	21
Cadmium	mg/kg dw	5.1	6.7	0.3 U	0.5	*0.3*	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.9 U	*0.7*	4	0.3 U
Chromium	mg/kg dw	260	270	36.1	34.2	*24.4*	24.8	25.2	23.3	17.3	17.7	48	*44.7*	126	10.3
Copper	mg/kg dw	390	390	61.2	63.6	*45.8*	56.3	36.9	37.6	24.5	25.6	236	*330*	**2,940**	21.3
Lead	mg/kg dw	450	530	42	73	*26*	19	16	16	7	6	121 J	*247 J*	**3,520 J**	16
Mercury	mg/kg dw	0.41	0.59	0.17	0.20	*0.28*	0.14	0.33	0.21	0.13	0.11	0.26 J	***0.45 J***	0.37 J	
Nickel	mg/kg dw	140	370	23	26	*19*	21	22	18	13	14	35	*20*	48	7
Silver	mg/kg dw	6.1	6.1	0.5 U	0.5 U	*0.5 U*	0.5 U	0.4 U	0.5 U	0.4 U	0.4 U	1 U	*0.9*	3	0.4 U
Zinc	mg/kg dw	410	960	120	211	*81.2*	74	67.1	65.2	40.6	42.0	386	***490***	**4,720**	78.5
PAHs														-	
2-Methylnaphthalene	mg/kg OC	38	64	3.2 U	3.1 U	2.8 U	1.6 U	2.7 U	2.2 U	2.9 U	3.1 U	4.4 U	3.7 U	15	12 U
Acenaphthene	mg/kg OC	16	57	3.2 U	3.1 U	2.8 U	1.6 U	2.7 U	2.2 U	2.9 U	3.1 U	4.4 U	4.5	**28**	12 U
Acenaphthylene	mg/kg OC	66	66	3.2 U	3.1 U	2.8 U	1.6 U	2.7 U	2.2 U	2.9 U	3.1 U	3.4 J	6.0	2.9 J	12 U
Anthracene	mg/kg OC	220	1,200	3.8	2.3 J	2.0 J	1.1 J	2.7 U	2.2 U	2.9 U	3.1 U	9.8	25	54	12 U
Benzo(a)anthracene	mg/kg OC	110	270	9.1	6.8	5.7	4.0	2.1 J	1.6 J	2.9 U	3.1 U	49	**120**	**200**	7.2 J
Benzo(a)pyrene	mg/kg OC	99	210	11	11	5.2	4.4	1.4 J	1.1 J	2.9 U	3.1 U	89	**200**	**180**	12 U
Benzo(g,h,i)perylene	mg/kg OC	31	78	2.4 J	2.5 J	2.2 J	1.3 J	2.7 U	2.2 U	2.9 U	3.1 U	24	**37**	**37**	12 U
Total benzofluoranthenes	mg/kg OC	230	450	31	33	13	17	3.6 J	3.2 J	2.9 U	3.1 U	230	**380**	**410**	6.1 J
Chrysene	mg/kg OC	110	460	14	10	7.7	5.7	2.5 J	1.7 J	2.9 U	3.1 U	71	**180**	**220**	7.4 J
Dibenzo(a,h)anthracene	mg/kg OC	12	33	3.2 U	3.1 U	2.8 U	1.6 U	2.7 U	2.2 U	2.9 U	3.1 U	7.6	**13**	12	2.6
Dibenzofuran	mg/kg OC	15	58	3.2 U	3.1 U	2.8 U	1.6 U	2.7 U	2.2 U	2.9 U	3.1 U	4.4 U	3.3 J	**25**	12 U
Fluoranthene	mg/kg OC	160	1,200	18	16	11	8.7	4.5	3.9	2.6 J	3.4	71	**170**	**580**	17
Fluorene	mg/kg OC	23	79	3.2 U	3.1 U	2.8 U	1.6 U	2.7 U	2.2 U	2.9 U	3.1 U	4.4 U	6.4	**33**	12 U
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	2.7 J	2.8 J	2.5 J	1.5 J	2.7 UJ	2.2 UJ	2.9 UJ	3.1 UJ	33	**56**	**54**	12 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC35		LDW-SC36						LDW-SC37			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC35-0-2	LDW-SC35-2-4	LDW-SC36-0-1	LDW-SC202-0-1 (LDW-SC36 R1)	LDW-SC36-1-2	LDW-SC202-1-2 (LDW-SC36 R1)	LDW-SC36-2-4	LDW-SC202-2-4 (LDW-SC36 R1)	LDW-SC37-0-1	LDW-SC37-1-2	LDW-SC37-2-4	LDW-SC37-5.3-6.9
Naphthalene	mg/kg OC	99	170	3.2 U	3.1 U	2.8 U	1.6 U	2.7 U	2.2 U	2.9 U	3.1 U	4.4 U	3.3 J	18	12 U
Phenanthrene	mg/kg OC	100	480	5.9	4.8	3.6	2.9	1.6 J	1.5 J	2.9 U	1.9 J	16	52	**330**	8.5 J
Pyrene	mg/kg OC	1,000	1,400	26	28	11	7.3	4.8	4.5	1.7 J	2.3 J	130	340	400	24
Total HPAH	mg/kg OC	960	5,300	110 J	110 J	58 J	50 J	19 J	16 J	4.2 J	5.6 J	700	**1,500**	**2,100**	64 J
Total LPAH	mg/kg OC	370	780	9.7	7.1 J	5.6 J	4.0 J	1.6 J	1.5 J	2.9 U	1.9 J	29 J	97 J	**470 J**	8.5 J
Phthalates															
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	22	20	5.1	4.3 J	2.7 U	2.2 U	2.9 U	3.1 U	38	41 J	24 J	12 U
Butyl benzyl phthalate	mg/kg OC	4.9	64	2.3	1.7	0.85 U	0.75	0.82 U	0.69 U	0.44 J	0.97 U	1.8 J	1.9	0.32 U	1.2 U
Diethyl phthalate	mg/kg OC	61	110	3.2 U	3.1 U	2.8 U	1.6 U	2.7 U	2.2 U	2.9 U	3.1 U	4.4 U	3.7 U	5.4 U	12 U
Dimethyl phthalate	mg/kg OC	53	53	3.2 U	3.1 U	2.8 U	1.6 U	2.7 U	2.2 U	2.9 U	3.1 U	4.4 U	3.7 U	5.4 U	1.2 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	3.2 U	3.1 U	1.7 J	1.1 J	2.7 U	2.2 U	2.9 U	3.1 U	4.4 U	3.7 U	5.4 U	12 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	3.2 U	3.1 U	2.8 U	1.6 U	2.7 U	2.2 U	2.9 U	3.1 U	4.4 U	3.0 J	5.4 U	12 U
Other SVOCs															
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.32 U	0.31 U	**0.85 UJ**	0.47 UJ	**0.82 UJ**	0.69 UJ	**0.91 UJ**	**0.97 UJ**	0.27 U	0.16 J	**2.1**	**1.2 U**
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.32 U	0.31 U	0.85 U	0.47 U	0.82 U	0.69 U	0.91 U	0.97 U	0.19 J	0.36	**6.7**	1.2 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	6.6 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.32 U	0.31 U	0.85 U	0.47 U	0.82 U	0.69 U	0.91 U	0.97 U	0.24 J	0.22 U	0.94	1.2 U
2,4-Dimethylphenol	µg/kg dw	29	29	6.0 U	5.9 U	12 U	6.0 U	12 U	12 U	12 U	12 U	6.0 UJ	11 J	28 UJ	6.6 U
2-Methylphenol	µg/kg dw	63	63	6.0 U	5.9 U	12 U	6.0 U	12 U	12 U	12 U	12 U	6.0 UJ	16 J	5.7 J	6.6 U
4-Methylphenol	µg/kg dw	670	670	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	110 J	66 U
Benzoic acid	µg/kg dw	650	650	120	130	170 UJ	150 UJ	180 UJ	170 UJ	120 UJ	120 UJ	140	130	230	590 U
Benzyl alcohol	µg/kg dw	57	73	30 U	30 U	**60 UJ**	30 UJ	**60 UJ**	**58 UJ**	**58 UJ**	**59 U**	22 J	22 J	34 J	33 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.32 U	0.31 U	**0.85 U**	**0.47 U**	**0.82 U**	**0.69 U**	**0.91 U**	**0.97 U**	0.27 U	0.22 U	0.32 U	**1.2 U**
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.32 U	0.31 U	0.85 U	0.47 U	0.82 U	0.69 U	0.91 U	0.97 U	0.27 U	0.22 U	0.32 U	1.2 U
Hexachloroethane	µg/kg dw	1,400	14,000	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	0.86 U	0.89 U	1.2 U	1.1 U	0.82 U	1.1 U	1.1 U	1.6 U	4.3 U	5.6 U	**63 U**	1.2 U
Pentachlorophenol	µg/kg dw	360	690	30 U	30 U	60 U	30 U	60 U	58 U	58 U	59 U	28 J	74	190	33 U
Phenol	µg/kg dw	420	1,200	60 U	59 U	40 U	20 U	40 U	39 U	38 U	39 U	100 U	100 U	120 U	66 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC35		LDW-SC36						LDW-SC37			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC35-0-2	LDW-SC35-2-4	LDW-SC36-0-1	LDW-SC202-0-1 (LDW-SC36 R1)	LDW-SC36-1-2	LDW-SC202-1-2 (LDW-SC36 R1)	LDW-SC36-2-4	LDW-SC202-2-4 (LDW-SC36 R1)	LDW-SC37-0-1	LDW-SC37-1-2	LDW-SC37-2-4	LDW-SC37-5.3-6.9
Polychlorinated biphenyls															
Total PCBs	mg/kg OC	12	65	**20 J**	7.9 J	5.3	2.4	0.27 U	0.22 UJ	0.29 U	0.31 UJ	**20**	**36 J**	**25**	0.72 U
Pesticides															
Total DDTs	µg/kg dw	6.9	69	na	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6k. 1- and 2-ft intervals, samples SC38-SC41

1- and 2-ft Intervals				LDW-SC38a			LDW-SC38b	LDW-SC39				LDW-SC40	LDW-SC41				
Analyte	Unit	SQS/SL[a]	CSL/ML[a]	LDW-SC38-0-1	LDW-SC38-1-2	LDW-SC38-2-3	LDW-SC38-3-3.3	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC39-4-6	LDW-SC40-0-1.3	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4	LDW-SC41-4-6	LDW-SC41-6-7.9
Metals and trace elements																	
Antimony	mg/kg dw	150	200	7 UJ	7 UJ	7 UJ	7 UJ	6 UJ	6 UJ	7 UJ	na	7 UJ	*10 UJ*	9 UJ	9 UJ	na	na
Arsenic	mg/kg dw	57	93	11	10	13	7 U	9	7	14	na	7	*20*	16	16	na	na
Cadmium	mg/kg dw	5.1	6.7	0.3 U	0.3 U	0.5	0.3 U	0.3 U	0.2 U	0.6	na	0.3 U	*0.4 U*	0.4	1.3	na	na
Chromium	mg/kg dw	260	270	23.4	22.0	26.8	12.4	17.6	16.1	27.4	na	14.4	*34*	33.0	32.2	na	na
Copper	mg/kg dw	390	390	34.7	31.5	38.5	20.1	26.9	29.2	34.7	na	20.9	*72.4*	68.8	61.9	na	na
Lead	mg/kg dw	450	530	28	19	36	8	23	35	48	na	18	*42*	31	35	na	na
Mercury	mg/kg dw	0.41	0.59	0.31	0.27	**0.45**	0.05 U	0.22	0.06	0.24	na	0.05	*0.20*	0.16	0.17	na	na
Nickel	mg/kg dw	140	370	15	14	15	18	15	15	17	na	10	*24*	26	25	na	na
Silver	mg/kg dw	6.1	6.1	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	0.4 U	na	0.4 U	*0.6 U*	0.6 U	0.5 U	na	na
Zinc	mg/kg dw	410	960	64.1	54.5	76.8	30.4	76.5	58.7	77.7	na	47.4	*160*	141	131	na	na
PAHs																	
2-Methylnaphthalene	mg/kg OC	38	64	1.0 U	1.5 UJ	8.0 J	1.5 U	5.8 U	9.5 U	2.5 U	na	2.7 U	2.5 U	0.88 UJ	2.2 U	3.4 U	na
Acenaphthene	mg/kg OC	16	57	1.0 U	0.95 J	**54 J**	16	5.8 U	9.5 U	1.3 J	na	2.7 U	2.5 U	0.88 UJ	2.2 U	3.4 U	na
Acenaphthylene	mg/kg OC	66	66	1.0 U	1.5 UJ	0.67 J	1.5 U	5.8 U	9.5 U	2.5 U	na	2.7 U	2.5 U	0.88 UJ	2.2 U	3.4 U	na
Anthracene	mg/kg OC	220	1,200	1.0 U	1.5 UJ	15 J	1.5 U	5.7 J	9.5 U	2.5 U	na	4.3	2.3 J	0.62 J	1.7 J	4.2	na
Benzo(a)anthracene	mg/kg OC	110	270	0.62 J	1.0 J	8.7 J	0.92 J	21	6.6 J	2.4 J	na	7.2	8.4	1.8 J	4.9	14	na
Benzo(a)pyrene	mg/kg OC	99	210	1.0 U	1.5 UJ	2.6 J	0.85 J	16	7.3 J	2.3 J	na	4.0	7.5	2.3 J	6.8	16	na
Benzo(g,h,i)perylene	mg/kg OC	31	78	1.0 U	1.5 UJ	1.3 UJ	1.5 U	4.2 J	9.5 U	2.5 U	na	2.4 J	2.9	0.88 J	2.3	7.4	na
Total benzofluoranthenes	mg/kg OC	230	450	1.2 J	1.8 J	11 J	1.8 J	55	16 J	6.6	na	11	25	7.3 J	23	41	na
Chrysene	mg/kg OC	110	460	0.62 J	0.95 J	8.7 J	0.92 J	42	7.3 J	2.8	na	11	13	3.3 J	8.7	21	na
Dibenzo(a,h)anthracene	mg/kg OC	12	33	1.0 U	1.5 UJ	1.3 UJ	1.5 U	5.8 U	9.5 U	2.5 U	na	2.7 U	1.8 J	0.88 UJ	1.1 J	5.1	na
Dibenzofuran	mg/kg OC	15	58	1.0 U	1.5 UJ	**17 J**	1.5 U	5.8 U	9.5 U	2.5 U	na	2.7 U	2.5 U	0.88 UJ	2.2 U	3.4 U	na
Fluoranthene	mg/kg OC	160	1,200	1.8	3.6 J	87 J	2.8	160	17	6.4	na	43	10	1.9 J	4.9	32	na
Fluorene	mg/kg OC	23	79	1.0 U	1.5 UJ	19 J	1.5 U	5.8 U	9.5 U	2.5 U	na	2.7 U	2.5 U	0.88 UJ	2.2 U	3.4 U	na
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	1.0 U	1.5 UJ	1.3 UJ	1.5 U	5.5 J	9.5 UJ	2.5 UJ	na	2.7	3.2	0.93 J	2.8	6.3	na

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC38a			LDW-SC38b	LDW-SC39				LDW-SC40	LDW-SC41				
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC38-0-1	LDW-SC38-1-2	LDW-SC38-2-3	LDW-SC38-3-3.3	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC39-4-6	LDW-SC40-0-1.3	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4	LDW-SC41-4-6	LDW-SC41-6-7.9
Naphthalene	mg/kg OC	99	170	1.0 U	1.5 UJ	22 J	1.5 U	5.8 U	9.5 U	2.5 U	na	2.7 U	2.5 U	0.88 UJ	2.1 J	3.4 U	na
Phenanthrene	mg/kg OC	100	480	0.62 J	1.2 J	64 J	0.77 J	14	11	2.2 J	na	17	5.0	1.2 J	3.4	11	na
Pyrene	mg/kg OC	1,000	1,400	1.9	3.3 J	44 J	3.1	78	19	7.1	na	32	20 J	6.6 J	19 J	95	na
Total HPAH	mg/kg OC	960	5,300	6.3 J	11 J	160 J	10 J	380 J	74 J	28 J	na	110 J	93 J	25 J	74 J	240	na
Total LPAH	mg/kg OC	370	780	0.62 J	2.1 J	180 J	17 J	20 J	11	3.5 J	na	21	7.1 J	1.9 J	7.2 J	15	na
Phthalates																	
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	1.1	0.95 J	5.3 J	1.5 U	4.4 J	9.5 U	2.5 U	na	6.4	20	3.1 J	9.1	23	na
Butyl benzyl phthalate	mg/kg OC	4.9	64	0.31 U	0.44 U	0.67	0.49	1.1	0.95 U	0.77 U	na	1.3	2.3	0.66	0.68	1.7	na
Diethyl phthalate	mg/kg OC	61	110	1.0 U	1.5 UJ	1.3 UJ	1.5 U	5.8 U	9.5 U	2.5 U	na	2.7 U	2.5 U	0.88 UJ	2.2 U	3.4 U	na
Dimethyl phthalate	mg/kg OC	53	53	1.0 U	1.5 UJ	1.3 UJ	1.5 U	5.8 U	9.5 U	2.5 U	na	2.7 U	2.5 U	0.71 J	1.8 J	1.1	na
Di-n-butyl phthalate	mg/kg OC	220	1,700	0.51 J	1.5 UJ	0.87 J	0.92 J	5.8 U	9.5 U	2.5 U	na	3.5 U	2.5 U	0.88 UJ	2.2 U	3.4 U	na
Di-n-octyl phthalate	mg/kg OC	58	4,500	1.0 U	1.5 UJ	1.3 UJ	1.5 U	5.8 U	9.5 U	2.5 U	na	2.7 U	2.5 U	0.88 UJ	2.2 U	3.4 U	na
Other SVOCs																	
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.31 UJ	0.44 UJ	0.39 UJ	0.45 UJ	0.58 UJ	**0.95 UJ**	0.77 UJ	na	0.80 UJ	0.25 U	0.26 U	0.22 U	0.34 U	na
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.31 U	0.44 U	0.39 U	0.45 U	0.58 U	0.95 U	0.77 U	na	0.80 U	0.25 U	0.26 U	0.22 U	0.34 U	na
1,3-Dichlorobenzene	µg/kg dw	170	nv	20 U	20 UJ	20 UJ	19 U	59 U	60 U	39 U	na	20 U	59 U	20 UJ	59 U	6.5 U	na
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.31 U	0.44 U	0.39 U	0.45 U	0.58 U	0.95 U	0.77 U	na	0.80 U	0.25 U	0.26 U	0.22 U	0.21 J	na
2,4-Dimethylphenol	µg/kg dw	29	29	6.0 U	6.0 U	5.9 U	5.8 U	5.9 U	6.0 U	12 U	na	6.0 UJ	5.9 U	5.9 U	5.9 U	6.5 UJ	na
2-Methylphenol	µg/kg dw	63	63	6.0 U	6.0 U	5.9 U	5.8 U	5.9 U	6.0 U	12 U	na	6.0 U	3.5 J	5.9 U	5.9 U	6.5 U	na
4-Methylphenol	µg/kg dw	670	670	20 U	20 UJ	20 U	19 U	59 U	60 U	39 U	na	20 U	59 U	20 UJ	59 U	65 U	na
Benzoic acid	µg/kg dw	650	650	57 J	60 U	77 J	58 J	170 UJ	140 UJ	120 UJ	na	80 UJ	290 J	140 J	130 J	580 U	na
Benzyl alcohol	µg/kg dw	57	73	30 U	30 U	30 U	29 U	29 U	30 U	**59 U**	na	30 U	25 J	36	21 J	32 U	na
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.31 U	**0.44 U**	**0.39 U**	**0.45 U**	0.14 U	0.15 U	0.063 U	na	0.13 U	0.25 U	0.26 U	0.22 U	0.34 U	na
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.31 U	0.44 U	0.39 U	0.45 U	0.14 U	0.15 U	0.063 U	na	0.13 U	0.25 U	0.26 U	0.22 U	0.34 U	na
Hexachloroethane	µg/kg dw	1,400	14,000	20 U	20 UJ	20 UJ	19 U	59 U	60 U	39 U	na	20 U	59 U	20 UJ	59 U	65 U	na
N-Nitrosodiphenylamine	mg/kg OC	11	11	1.6 U	2.2 U	**16 U**	1.4 U	1.3 U	2.2 U	2.2 U	na	1.5 U	1.2 UJ	0.93 UJ	0.87 UJ	2.0 U	na
Pentachlorophenol	µg/kg dw	360	690	30 U	30 U	26 J	29 U	29 U	30 U	59 U	na	30 U	23 J	17 J	18 J	40	na
Phenol	µg/kg dw	420	1,200	20 U	20 UJ	20 U	19 U	59 U	60 U	39 U	na	20 U	180	28 J	59 U	65 U	na

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC38a			LDW-SC38b	LDW-SC39				LDW-SC40	LDW-SC41				
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC38-0-1	LDW-SC38-1-2	LDW-SC38-2-3	LDW-SC38-3-3.3	LDW-SC39-0-1	LDW-SC39-1-2	LDW-SC39-2-4	LDW-SC39-4-6	LDW-SC40-0-1.3	LDW-SC41-0-1	LDW-SC41-1-2	LDW-SC41-2-4	LDW-SC41-4-6	LDW-SC41-6-7.9
Polychlorinated biphenyls																	
Total PCBs	mg/kg OC	12	65	**23**	**52**	**<u>230</u>**	1.1	**20**	**<u>70</u>**	**14**	6.0	**21 J**	**15 J**	11	10	**27**	**14**
Pesticides																	
Total DDTs	µg/kg dw	6.9	69	na	na	na	na	**8.9 U**	**26 U**	**13 U**	na	**7.2 U**	na	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	na	na	na	1.4 U	0.98 U	0.98 U	na	1.0 U	na	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	na	na	na	2.7 U	5.3 U	2.0 U	na	2.0 U	na	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	na	na	1.4 U	0.98 U	0.98 U	na	1.0 U	na	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	na	na	na	1.4 U	0.98 U	0.98 U	na	1.8 U	na	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	na	na	na	2.7 U	2.0 U	2.0 U	na	3.3 U	na	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **<u>bold underline</u>** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6l. 1- and 2-ft intervals, samples SC42-SC46

1- AND 2-FT INTERVALS				LDW-SC42			LDW-SC43	LDW-SC44			LDW-SC45		LDW-SC46			
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC42-0-1	LDW-SC42-1-2	LDW-SC42-2-4	LDW-SC43-0-2	LDW-SC44-0-2	LDW-SC44-2-3.2	LDW-SC44-3.2-4	LDW-SC45-0-1	LDW-SC45-1-2	LDW-SC46-0-1	LDW-SC46-1-2	LDW-SC46-2-4	LDW-SC46-4-6.8
Metals and trace elements																
Antimony	mg/kg dw	150	200	9 UJ	9 UJ	*9 UJ*	*7 UJ*	8 UJ	8 UJ	6 UJ	*9 UJ*	9 UJ	8 UJ	8 UJ	9 UJ	na
Arsenic	mg/kg dw	57	93	10	13	*13*	*7 U*	16	19	9	*15*	13	16	13	18	na
Cadmium	mg/kg dw	5.1	6.7	0.4 U	0.3 U	*0.4*	*0.3 U*	0.8	1.4	0.2 U	*0.4 U*	0.3 U	0.3 U	0.3 U	0.3 U	na
Chromium	mg/kg dw	260	270	26.4	24.7	*32.7*	*15.9*	47.9	51.0	15.4	*27.9*	27.0	33.3	27.3	41.5	na
Copper	mg/kg dw	390	390	41.2	52.9	*49.5*	*21.5*	48.4	45.3	17.7	*50.0*	42.9	54.9	46.6	81.9	na
Lead	mg/kg dw	450	530	20 J	38 J	*33 J*	*4*	33	74	9	*25*	21	29	24	31	na
Mercury	mg/kg dw	0.41	0.59	0.17	0.19	*0.15*	*0.06 U*	0.36	0.23	0.07	*0.13*	0.14	0.13	0.12	0.15	na
Nickel	mg/kg dw	140	370	23	19	*26*	*11*	20	19	10	*19*	20	21	22	31	na
Silver	mg/kg dw	6.1	6.1	0.6 U	0.5 U	*0.6 U*	*0.4 U*	0.6	0.5 U	0.4 U	*0.6 U*	0.5 U	0.5 U	0.5 U	0.5 U	na
Zinc	mg/kg dw	410	960	77	105	*95*	*33.0*	119	123	36.9	*98*	83	118	108	132	na
PAHs																
2-Methylnaphthalene	mg/kg OC	38	64	2.3 U	1.9 U	1.8 U	3.0 U	3.8 U	3.1 U	2.2 U	4.0 U	4.3 U	3.3 U	7.0 U	3.1 U	na
Acenaphthene	mg/kg OC	16	57	2.3 U	1.9 U	8.8	3.0 U	3.8 U	3.1 U	2.2 U	4.0 U	4.3 U	5.3	4.4 J	3.1	na
Acenaphthylene	mg/kg OC	66	66	2.3 U	1.9 U	1.8 U	3.0 U	3.8 U	3.1 U	2.2 U	4.0 U	4.3 U	1.9 J	4.5 J	3.0 J	na
Anthracene	mg/kg OC	220	1,200	2.3 U	4.5	15	3.0 U	3.8 U	1.8 J	2.2 U	2.1 J	4.3 U	20	25	16	na
Benzo(a)anthracene	mg/kg OC	110	270	4.9	11	17	2.1 J	4.0	4.8	2.2 U	11	6.6	52	85	62	na
Benzo(a)pyrene	mg/kg OC	99	210	5.6	18	14	3.0 U	3.7 J	3.8	2.2 U	11	7.9	31	55	38	na
Benzo(g,h,i)perylene	mg/kg OC	31	78	2.4	3.7	2.5	3.0 U	3.8 U	3.1 U	2.2 U	3.0 J	2.5 J	5.4	8.5	11	na
Total benzofluoranthenes	mg/kg OC	230	450	16	53	39	5.0 J	12	12	2.2 U	32	27	77	150	95	na
Chrysene	mg/kg OC	110	460	7.3	20	22	2.1 J	4.7	5.8	2.2 U	14	8.6	61	110	77	na
Dibenzo(a,h)anthracene	mg/kg OC	12	33	2.3 U	1.9 U	1.8 U	3.0 U	3.8 U	3.1 U	2.2 U	4.0 U	4.3 U	1.8 J	7.0 U	3.7	na
Dibenzofuran	mg/kg OC	15	58	2.3 U	1.9 U	2.6	3.0 U	3.8 U	3.1 U	2.2 U	4.0 U	4.3 U	5.1	7.0 U	3.1 U	na
Fluoranthene	mg/kg OC	160	1,200	14	25	65	1.9 J	5.3	6.3	2.2 U	28	13	**220**	**200**	150	na
Fluorene	mg/kg OC	23	79	2.3 U	1.9 U	5.5	3.0 U	3.8 U	3.1 U	2.2 U	4.0 U	4.3 U	8.3	4.7 J	3.3	na

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC42			LDW-SC43	LDW-SC44			LDW-SC45		LDW-SC46			
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC42-0-1	LDW-SC42-1-2	LDW-SC42-2-4	LDW-SC43-0-2	LDW-SC44-0-2	LDW-SC44-2-3.2	LDW-SC44-3.2-4	LDW-SC45-0-1	LDW-SC45-1-2	LDW-SC46-0-1	LDW-SC46-1-2	LDW-SC46-2-4	LDW-SC46-4-6.8
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	2.3 U	4.1	2.9	3.0 U	3.8 U	3.1 U	2.2 U	2.8 J	2.9 J	7.7	13	15 J	na
Naphthalene	mg/kg OC	99	170	2.3 U	1.9 U	1.8 U	3.0 U	3.8 U	3.1 U	2.2 U	4.0 U	4.3 U	3.3	26	20	na
Phenanthrene	mg/kg OC	100	480	4.5	7.9	16	3.0 U	2.9 J	3.7	2.2 U	5.1	3.9 J	77	27	19	na
Pyrene	mg/kg OC	1,000	1,400	14	44	38 J	2.5 J	14 J	16 J	2.4 J	27	19	130	350	230	na
Total HPAH	mg/kg OC	960	5,300	64	180	200 J	14 J	43 J	48 J	2.4 J	130 J	88 J	580 J	960	690 J	na
Total LPAH	mg/kg OC	370	780	4.5	13	45	3.0 U	2.9 J	5.5 J	2.2 U	7.2 J	3.9 J	120 J	91 J	64 J	na
Phthalates																
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	10 U	19 U	9.7 U	1.8 J	2.2 J	3.1 U	2.2 U	15	8.6	14	15	10	na
Butyl benzyl phthalate	mg/kg OC	4.9	64	1.1 U	1.7 U	1.0 U	0.87 U	0.38 U	0.31 U	0.66 U	2.2 J	1.7	1.9	1.5	1.2	na
Diethyl phthalate	mg/kg OC	61	110	2.3 U	1.9 U	1.8 U	3.0 U	3.8 U	3.1 U	2.2 U	4.0 U	4.3 U	3.3 U	7.0 U	3.1 U	na
Dimethyl phthalate	mg/kg OC	53	53	2.3 U	1.9 U	1.8 U	3.0 U	3.8 U	3.1 U	2.2 U	4.0 U	4.3 U	3.3 U	7.0 U	3.1 U	na
Di-n-butyl phthalate	mg/kg OC	220	1,700	2.3 U	1.9 U	1.8 U	3.0 U	3.8 U	4.9	9.0	2.4 J	4.3 U	3.3 U	7.0 U	3.1 U	na
Di-n-octyl phthalate	mg/kg OC	58	4,500	2.3 U	1.9 U	1.8 U	3.0 U	3.8 U	3.1 U	2.2 U	4.0 U	4.3 U	3.3 U	7.0 U	3.1 U	na
Other SVOCs																
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.68 U	0.56 U	0.55 U	**0.87 UJ**	0.38 U	0.31 U	0.66 U	0.40 UJ	0.43 UJ	0.33 UJ	0.50 J	0.31 UJ	na
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.68 U	0.56 U	0.55 U	0.87 U	0.38 U	0.31 U	0.66 U	0.40 U	0.43 U	0.33 U	0.42 U	0.31 U	na
1,3-Dichlorobenzene	µg/kg dw	170	nv	40 U	40 U	40 U	20 U	60 U	59 U	20 U	59 U	60 U	60 U	99 U	60 U	na
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.68 U	0.56 U	0.55 U	0.87 U	0.38 U	0.31 U	0.66 U	0.40 U	0.43 U	0.17 J	0.37 J	0.31 U	na
2,4-Dimethylphenol	µg/kg dw	29	29	12 U	12 U	12 U	5.9 U	6.0 U	5.9 U	5.9 U	5.9 U	6.0 U	6.0 U	5.9 U	6.0 U	na
2-Methylphenol	µg/kg dw	63	63	12 U	12 U	12 U	5.9 U	6.0 U	5.9 U	5.9 U	5.9 U	6.0 U	6.0 U	5.9 U	6.0 U	na
4-Methylphenol	µg/kg dw	670	670	40 U	40 U	40 U	20 U	60 U	59 U	20 U	59 U	60 U	60 U	99 U	60 U	na
Benzoic acid	µg/kg dw	650	650	140	150	120 J	150 J	80 J	81 J	48 J	150 J	100 J	220 J	450 J	210 J	na
Benzyl alcohol	µg/kg dw	57	73	**60 U**	**60 U**	**59 U**	30 U	30 U	29 U	29 U	30 U	30 U	18 J	**64 J**	21 J	na
Hexachlorobenzene	mg/kg OC	0.38	2.3	**0.68 U**	**0.56 U**	**0.55 U**	**0.87 U**	0.38 U	0.31 U	**0.66 U**	**0.40 U**	**0.43 U**	0.33 U	**0.70**	0.31 U	na
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.68 U	0.56 U	0.55 U	0.87 U	0.38 U	0.31 U	0.66 U	0.40 U	0.43 U	0.33 U	0.42 U	0.31 U	na
Hexachloroethane	µg/kg dw	1,400	14,000	40 U	40 U	40 U	20 U	60 U	59 U	20 U	59 U	60 U	60 U	99 U	60 U	na
N-Nitrosodiphenylamine	mg/kg OC	11	11	0.90 U	0.93 U	1.2 U	1.4 UJ	2.7 UJ	5.1 UJ	0.66 UJ	1.4 U	1.2 U	3.4 U	2.0 U	1.9 U	na
Pentachlorophenol	µg/kg dw	360	690	60 U	60 U	59 UJ	30 U	30 U	29 U	29 U	30 U	30 U	30 U	30 U	30 U	na

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC42			LDW-SC43	LDW-SC44			LDW-SC45		LDW-SC46			
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC42-0-1	LDW-SC42-1-2	LDW-SC42-2-4	LDW-SC43-0-2	LDW-SC44-0-2	LDW-SC44-2-3.2	LDW-SC44-3.2-4	LDW-SC45-0-1	LDW-SC45-1-2	LDW-SC46-0-1	LDW-SC46-1-2	LDW-SC46-2-4	LDW-SC46-4-6.8
Phenol	µg/kg dw	420	1,200	150	40 U	40 U	20 U	60 U	59 U	20 U	59 U	60 U	60 U	99 U	61	na
Polychlorinated biphenyls																
Total PCBs	mg/kg OC	12	65	6.0	7.6 J	4.1 J	0.59 UJ	**32**	**24**	0.44 U	**16 J**	**19**	12	**13**	**14**	10
Pesticides																
Total DDTs	µg/kg dw	6.9	69	na	na	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6m. 1- and 2-ft intervals, samples SC47-SC50a

1- AND 2-FT INTERVALS				LDW-SC47			LDW-SC48	LDW-SC49a						LDW-SC50a		
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC47-0-1	LDW-SC47-1-2	LDW-SC47-2-3	LDW-SC48-0-1	LDW-SC49-0-1	LDW-SC49-1-2	LDW-SC49-2-4	LDW-SC49-4-6	LDW-SC49-6-8	LDW-SC49-8-10	LDW-SC50-0-1	LDW-SC50-1-2	LDW-SC50-2-2.8
Metals and trace elements																
Antimony	mg/kg dw	150	200	6 UJ	8 UJ	7 UJ	6 UJ	10 UJ	9 UJ	8 UJ	na	na	na	6 UJ	7 UJ	6 UJ
Arsenic	mg/kg dw	57	93	6 U	12	8	6 U	10	10	11	na	na	na	**707**	**281**	**161**
Cadmium	mg/kg dw	5.1	6.7	0.3 U	0.8	0.3	0.2 U	0.4 U	0.3 U	0.7	na	na	na	0.3 U	0.3 U	0.2 U
Chromium	mg/kg dw	260	270	13.6	34.5	21.7	13.7	25	27.6	26.6	na	na	na	28.5	24.3	21.6
Copper	mg/kg dw	390	390	19.1	45.2	28.1	16.3	40.2	48.2	45.4	na	na	na	36.1	24.4	24.9
Lead	mg/kg dw	450	530	14	46	22	6 J	18	28	36	na	na	na	47	22	11
Mercury	mg/kg dw	0.41	0.59	0.05 U	0.17	0.18	0.05 U	0.11	0.16	0.17	na	na	na	0.20	0.06 U	0.07
Nickel	mg/kg dw	140	370	9	19	15	10	19	20	19	na	na	na	17	14	32
Silver	mg/kg dw	6.1	6.1	0.4 U	0.5	0.4 U	0.4 U	0.6 U	0.5 U	0.5 U	na	na	na	0.4 U	0.4 U	0.4 U
Zinc	mg/kg dw	410	960	42.3	117	54.6	37.5 J	81	102	99.3	na	na	na	161	124	108
PAHs																
2-Methylnaphthalene	mg/kg OC	38	64	5.5 U	3.4 U	6.1 U	1.2 U	2.0 U	2.0 U	0.98 U	na	na	na	8.9 J	7.2 U	1.7 U
Acenaphthene	mg/kg OC	16	57	5.5 U	3.4 U	6.1 U	1.2 U	2.0 U	2.0 U	0.98 U	na	na	na	6.5 J	7.2 U	1.7 U
Acenaphthylene	mg/kg OC	66	66	5.5 U	3.4 U	6.1 U	1.2 U	2.0 U	2.0 U	0.98 U	na	na	na	9.5 U	7.2 U	1.7 U
Anthracene	mg/kg OC	220	1,200	5.5 U	3.4 U	6.1 U	1.2 U	2.0 U	2.8	1.2	na	na	na	16	5.6 J	1.7 U
Benzo(a)anthracene	mg/kg OC	110	270	5.5 U	2.1 J	6.1 U	1.6	4.8	8.1	3.1 U	na	na	na	44	17	1.0 J
Benzo(a)pyrene	mg/kg OC	99	210	5.5 U	2.5 J	6.1 U	1.5	5.6 J	9.1	4.2	na	na	na	41	11	1.7 U
Benzo(g,h,i)perylene	mg/kg OC	31	78	5.5 U	3.4 U	6.1 U	1.2 U	2.7 J	2.3	0.98 U	na	na	na	12	7.2 U	1.7 U
Total benzofluoranthenes	mg/kg OC	230	450	12 J	6.5 J	6.1 U	4.0	19 J	30	10	na	na	na	78	25	1.8 J
Chrysene	mg/kg OC	110	460	4.6 J	2.5 J	6.1 U	2.1	6.1	13	4.0	na	na	na	52	20	1.2 J
Dibenzo(a,h)anthracene	mg/kg OC	12	33	5.5 U	3.4 U	6.1 U	1.2 U	2.0 UJ	2.0 U	0.98 U	na	na	na	9.5 U	7.2 U	1.7 U
Dibenzofuran	mg/kg OC	15	58	5.5 U	3.4 U	6.1 U	1.2 U	2.0 U	2.0 U	0.98 U	na	na	na	9.5 U	7.2 U	1.7 U
Fluoranthene	mg/kg OC	160	1,200	4.9 J	5.0	3.9 J	7.0	13	13	9.8	na	na	na	120	25	3.4
Fluorene	mg/kg OC	23	79	5.5 U	3.4 U	6.1 U	1.2 U	2.0 U	2.0 U	0.98 U	na	na	na	6.5 J	7.2 U	1.7 U
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	5.5 U	3.4 U	6.1 U	1.2 U	2.3 J	2.0 U	0.98 U	na	na	na	16	4.3 J	1.7 UJ

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC47			LDW-SC48	LDW-SC49a						LDW-SC50a		
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC47-0-1	LDW-SC47-1-2	LDW-SC47-2-3	LDW-SC48-0-1	LDW-SC49-0-1	LDW-SC49-1-2	LDW-SC49-2-4	LDW-SC49-4-6	LDW-SC49-6-8	LDW-SC49-8-10	LDW-SC50-0-1	LDW-SC50-1-2	LDW-SC50-2-2.8
Naphthalene	mg/kg OC	99	170	5.5 U	3.4 U	6.1 U	1.2 U	2.0 U	2.0 U	0.98 U	na	na	na	9.5 U	7.2 U	1.7 U
Phenanthrene	mg/kg OC	100	480	5.5 U	2.8 J	6.1 U	1.0 J	4.7	4.2	3.7	na	na	na	67	12	1.7
Pyrene	mg/kg OC	1,000	1,400	5.6	5.7	5.8 J	4.2	14	28	11	na	na	na	79	17	2.4
Total HPAH	mg/kg OC	960	5,300	27 J	25 J	9.8 J	20	68 J	100	39	na	na	na	450	120 J	9.7 J
Total LPAH	mg/kg OC	370	780	5.5 U	2.8 J	6.1 U	1.0 J	4.7	7.1	4.9	na	na	na	95 J	17 J	1.7
Phthalates																
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	4.0 J	10	22	3.5	12 U	11 U	10 U	na	na	na	**110**	7.8	5.3
Butyl benzyl phthalate	mg/kg OC	4.9	64	0.65	1.6	0.52	0.34 U	1.1	1.2 U	1.4 U	na	na	na	3.8	1.7	0.56
Diethyl phthalate	mg/kg OC	61	110	5.5 U	3.4 U	6.1 U	1.2 U	2.0 U	2.0 U	0.98 U	na	na	na	9.5 U	7.2 U	1.7 U
Dimethyl phthalate	mg/kg OC	53	53	5.5 U	3.4 U	6.1 U	1.2 U	2.0 U	2.0 U	0.98 U	na	na	na	9.5 U	7.2 U	1.7 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	5.5 U	8.0	3.2 J	0.70 J	2.6 U	2.0 U	1.3 U	na	na	na	9.5 U	7.2 U	1.9 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	5.5 U	3.4 U	6.1 U	1.2 U	2.0 U	2.0 U	0.98 U	na	na	na	9.5 U	7.2 U	1.7 U
Other SVOCs																
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.55 U	0.34 U	0.37 U	0.34 U	0.61 U	0.61 U	0.29 U	na	na	na	0.57 J	0.50 J	0.51 UJ
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.55 U	0.17 J	0.37 U	0.34 U	0.61 U	0.61 U	0.29 U	na	na	na	0.95 U	0.72 U	0.51 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	59 U	59 U	99 U	20 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.55 U	0.30 J	0.19 J	0.34 U	0.61 U	0.61 U	0.18 J	na	na	na	0.95 U	0.72 U	0.51 U
2,4-Dimethylphenol	µg/kg dw	29	29	5.9 U	5.9 U	5.9 U	5.9 U	12 U	12 U	6.0 U	na	na	na	6.0 UJ	5.9 UJ	6.0 UJ
2-Methylphenol	µg/kg dw	63	63	5.9 U	5.9 U	5.9 U	5.9 U	12 U	12 U	6.0 U	na	na	na	3.0 J	5.9 U	6.0 U
4-Methylphenol	µg/kg dw	670	670	59 U	59 U	99 U	20 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U
Benzoic acid	µg/kg dw	650	650	110 J	130 J	110 J	66	**750 J**	100 J	90	na	na	na	330 J	130 UJ	100 UJ
Benzyl alcohol	µg/kg dw	57	73	29 U	29 U	30 U	29 U	**200**	**60 U**	30 U	na	na	na	30 U	30 U	30 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	**0.55 U**	0.34 U	0.37 U	0.34 U	**0.61 U**	**0.61 U**	0.29 U	na	na	na	**0.95 U**	**0.72 U**	**0.51 U**
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.55 U	0.34 U	0.37 U	0.34 U	0.61 U	0.61 U	0.29 U	na	na	na	0.95 UJ	0.72 U	0.51 U
Hexachloroethane	µg/kg dw	1,400	14,000	59 U	59 U	99 U	20 U	40 U	40 U	20 U	na	na	na	60 U	59 U	20 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	0.76 UJ	2.2 UJ	1.1 UJ	0.48 U	0.86 U	0.61 U	0.83 U	na	na	na	**16 U**	3.7 U	1.8 U
Pentachlorophenol	µg/kg dw	360	690	29 U	29 U	30 U	29 U	89 J	60 UJ	30 U	na	na	na	30 U	30 U	30 U
Phenol	µg/kg dw	420	1,200	59 U	59 U	99 U	20 U	130	40 U	22	na	na	na	42 J	59 U	13 J

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC47			LDW-SC48	LDW-SC49a						LDW-SC50a		
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC47-0-1	LDW-SC47-1-2	LDW-SC47-2-3	LDW-SC48-0-1	LDW-SC49-0-1	LDW-SC49-1-2	LDW-SC49-2-4	LDW-SC49-4-6	LDW-SC49-6-8	LDW-SC49-8-10	LDW-SC50-0-1	LDW-SC50-1-2	LDW-SC50-2-2.8
Polychlorinated biphenyls																
Total PCBs	mg/kg OC	12	65	6.7 J	**110**	**30 J**	4.5	3.8	7.6	**20**	**38**	**30**	5.7	**81**	**96**	6.4 J
Pesticides																
Total DDTs	µg/kg dw	6.9	69	na	na	na	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	na	na	na	na	na	na	na	na	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-6n. 1- and 2-ft intervals, samples SC51-SC56

1- AND 2-FT INTERVALS				LDW-SC51			LDW-SC52		LDW-SC53		LDW-SC54		LDW-SC55			LDW-SC56
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC51-0-2	LDW-SC51-2-3.8	LDW-SC51-3.8-5.8	LDW-SC52-0-1	LDW-SC52-1-2	LDW-SC53-0-2	LDW-SC53-2-4	LDW-SC54-0-2	LDW-SC54-2-4	LDW-SC55-0-1	LDW-SC55-1-2	LDW-SC55-2-3	LDW-SC56-0-2
Metals and trace elements																
Antimony	mg/kg dw	150	200	6 UJ	7 UJ	na	8 UJ	8 UJ	*10 UJ*	10 UJ	9 UJ	8 UJ	*8 UJ*	6 UJ	6 UJ	*6 UJ*
Arsenic	mg/kg dw	57	93	25	55	na	17	28	*20*	20	12	11	*10*	6 U	6 U	*7*
Cadmium	mg/kg dw	5.1	6.7	0.7	1.0	na	1.9	1.9	*0.4 U*	0.5	0.4 U	0.3 U	*0.4*	0.3 U	0.2 U	*0.2 U*
Chromium	mg/kg dw	260	270	67.4	34.8	na	81.3	135	*34*	32	23.8	24.4	*20.0*	13.6	14.3	*16.1*
Copper	mg/kg dw	390	390	44.5	38.2	na	101	47.6	*62.2*	71.2	36.5	35.9	*25.3*	16.2	19.3	*21.8*
Lead	mg/kg dw	450	530	76 J	41 J	na	222 J	36 J	*28*	41	17	18	*10*	3	3	*40 J*
Mercury	mg/kg dw	0.41	0.59	0.10 J	0.12 J	na	**0.67**	0.25	*0.16*	0.18	0.10	0.13	*0.09*	0.13	0.05 U	*0.05*
Nickel	mg/kg dw	140	370	34	33	na	19	49	*26*	24	18	20	*15*	11	9	*12*
Silver	mg/kg dw	6.1	6.1	1.1	0.4 U	na	1.6	2.6	*0.6 U*	0.6 U	0.5 U	0.5 U	*0.5 U*	0.4 U	0.4 U	*0.4 U*
Zinc	mg/kg dw	410	960	203	269	na	200	104	*122*	141	81	80	*54.4*	31.8	30.1	*68.5 J*
PAHs																
2-Methylnaphthalene	mg/kg OC	38	64	4.1 U	3.4 U	na	2.5 U	1.4 U	1.3 U	1.3 U	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	1.2 U
Acenaphthene	mg/kg OC	16	57	**26**	3.6	na	2.5 U	1.4 U	1.3 U	1.3 U	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	0.96 J
Acenaphthylene	mg/kg OC	66	66	4.1 U	3.4 U	na	2.5 U	1.4 U	1.3 U	1.3 U	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	1.2 U
Anthracene	mg/kg OC	220	1,200	14	4.7	na	2.5 U	1.4 U	3.3	3.5	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	2.1
Benzo(a)anthracene	mg/kg OC	110	270	37	16	na	5.1	1.4 U	20	17	5.5	5.5	1.3 U	2.9 U	3.1 U	6.6
Benzo(a)pyrene	mg/kg OC	99	210	33	15	na	4.2	1.4 U	26 J	23	5.0	6.4	1.3 U	2.9 U	3.1 U	8.4
Benzo(g,h,i)perylene	mg/kg OC	31	78	11	4.5	na	2.5 U	1.4 U	8.5 J	5.5	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	1.7
Total benzofluoranthenes	mg/kg OC	230	450	68	28	na	12	1.4 U	81 J	66	19	20	1.3 U	2.9 U	3.1 U	17
Chrysene	mg/kg OC	110	460	40	18	na	7.2	1.4 U	29	25	7.3	7.1	1.3 U	2.9 U	3.1 U	7.8
Dibenzo(a,h)anthracene	mg/kg OC	12	33	3.3 J	3.4 U	na	2.5 U	1.4 U	1.9 J	1.5	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	1.2 U
Dibenzofuran	mg/kg OC	15	58	**16**	3.4 U	na	2.5 U	1.4 U	1.3 U	1.3 U	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	1.2 U
Fluoranthene	mg/kg OC	160	1,200	140	47	na	19	3.3	85	73	13	14	3.6 U	2.9 U	3.1 U	19
Fluorene	mg/kg OC	23	79	10	3.1 J	na	2.5 U	1.4 U	1.7	1.3 U	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	0.90 J

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC51			LDW-SC52		LDW-SC53		LDW-SC54		LDW-SC55			LDW-SC56
ANALYTE	UNIT	SQS/SL[a]	CSL/ML[a]	LDW-SC51-0-2	LDW-SC51-2-3.8	LDW-SC51-3.8-5.8	LDW-SC52-0-1	LDW-SC52-1-2	LDW-SC53-0-2	LDW-SC53-2-4	LDW-SC54-0-2	LDW-SC54-2-4	LDW-SC55-0-1	LDW-SC55-1-2	LDW-SC55-2-3	LDW-SC56-0-2
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	15	6.4	na	2.5 U	1.4 U	7.8 J	5.5	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	1.9
Naphthalene	mg/kg OC	99	170	3.8 J	3.4 U	na	2.5 U	1.7	1.3 U	1.3 U	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	1.2 U
Phenanthrene	mg/kg OC	100	480	62	25	na	5.1	2.0	27	18	3.9	4.9	1.6	2.9 U	3.1 U	10
Pyrene	mg/kg OC	1,000	1,400	82	34	na	17	2.2	62	48	11	14	2.3 U	2.9 U	3.1 U	13
Total HPAH	mg/kg OC	960	5,300	430 J	170	na	65	5.6	320 J	270	62	67	3.6 U	2.9 U	3.1 U	75
Total LPAH	mg/kg OC	370	780	120 J	37 J	na	5.1	3.7	32	22	3.9	4.9	1.6	2.9 U	3.1 U	14 J
Phthalates																
Bis(2-ethylhexyl) phthalate	mg/kg OC	47	78	33	4.4	na	28	1.4 U	17 U	30	6.6	8.4	1.8 U	2.9 U	3.1 U	1.4
Butyl benzyl phthalate	mg/kg OC	4.9	64	2.4	1.7	na	**26**	0.44 U	1.2 U	3.3	1.5	1.0	0.39 U	0.85 U	0.93 U	0.35 U
Diethyl phthalate	mg/kg OC	61	110	4.1 U	3.4 U	na	2.5 U	1.4 U	1.3 U	1.3 U	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	1.2 U
Dimethyl phthalate	mg/kg OC	53	53	4.1 U	3.4 U	na	3.5	1.4 U	1.3 U	1.3 U	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	1.2 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	4.7 U	3.4 U	na	8.4	1.4 U	1.3 U	1.3 U	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	0.96 J
Di-n-octyl phthalate	mg/kg OC	58	4,500	4.1 U	3.4 U	na	2.5 U	1.4 U	1.3 U	1.3 U	3.9 U	3.9 U	1.3 U	2.9 U	3.1 U	1.2 U
Other SVOCs																
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.41 U	0.34 U	na	**0.93 U**	0.44 U	0.39 U	0.42 U	0.39 UJ	0.39 U	0.39 U	**0.85 U**	**0.93 U**	0.35 U
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.33 J	1.2	na	0.25 U	0.44 U	0.39 U	0.42 U	0.39 U	0.39 U	0.39 U	0.85 U	0.93 U	0.35 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	60 U	59 U	na	59 U	39 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.37 J	0.64	na	0.25 U	0.44 U	0.39 U	0.42 U	0.39 U	0.39 U	0.39 U	0.85 U	0.93 U	0.35 U
2,4-Dimethylphenol	µg/kg dw	29	29	6.0 UJ	9.5 J	na	5.9 U	12 U	12 U	12 U	5.9 U	6.0 U	5.9 U	5.9 U	6.0 U	5.9 U
2-Methylphenol	µg/kg dw	63	63	6.0 UJ	5.9 UJ	na	**160**	12 U	12 U	12 U	5.9 U	6.0 U	5.9 U	5.9 U	6.0 U	5.9 U
4-Methylphenol	µg/kg dw	670	670	60 U	59 U	na	59 U	39 UJ	39 U	39 U	59 U	60 U	25 U	20 U	20 U	20 U
Benzoic acid	µg/kg dw	650	650	90	68	na	490	120 U	160	160	280 J	120 J	100 J	61 J	67 J	90
Benzyl alcohol	µg/kg dw	57	73	18 J	21 J	na	40 U	**58 U**	**59 U**	**58 U**	30 U	30 U	30 U	30 U	30 U	30 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	**0.41 U**	0.34 U	na	0.25 U	**0.44 U**	0.032 U	0.034 U	0.065 U	0.064 U	**0.39 U**	**0.85 U**	**0.93 U**	0.35 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.41 U	0.34 U	na	0.25 U	0.44 U	0.032 U	0.034 U	0.065 U	0.064 U	0.39 U	0.85 U	0.93 U	0.35 U
Hexachloroethane	µg/kg dw	1,400	14,000	60 U	59 U	na	59 U	39 U	39 U	39 U	59 U	60 U	20 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	4.6 U	3.9 U	na	**14 U**	1.4 U	0.65 U	1.4 U	1.1 UJ	1.5 UJ	1.5 U	0.85 U	1.0 U	0.96 U
Pentachlorophenol	µg/kg dw	360	690	30 U	30 U	na	30 U	58 U	59 U	58 U	30 U	30 U	30 UJ	30 UJ	30 UJ	30 U

A-6, cont. Concentrations of all analytes compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC51			LDW-SC52		LDW-SC53		LDW-SC54		LDW-SC55			LDW-SC56
ANALYTE	UNIT	SQS/ SL[a]	CSL/ ML[a]	LDW-SC51-0-2	LDW-SC51-2-3.8	LDW-SC51-3.8-5.8	LDW-SC52-0-1	LDW-SC52-1-2	LDW-SC53-0-2	LDW-SC53-2-4	LDW-SC54-0-2	LDW-SC54-2-4	LDW-SC55-0-1	LDW-SC55-1-2	LDW-SC55-2-3	LDW-SC56-0-2
Phenol	µg/kg dw	420	1,200	60 U	59 U	na	59 U	39 UJ	39 U	74	59 U	60 U	20 U	20 U	20 U	20 U
Polychlorinated biphenyls																
Total PCBs	mg/kg OC	12	65	**88**	**40**	0.63 U	**130 J**	2.4	2.2	2.7	7.2	7.2	0.90	0.56 U	0.62 U	**20**
Pesticides																
Total DDTs	µg/kg dw	6.9	69	na	na	na	na	na	5.3 U	6.3 U	3.2 U	2.0 U	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	na	na	na	na	0.99 U	0.98 U	0.98 U	0.99 U	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	na	na	na	na	2.0 U	2.0 U	2.0 U	2.0 U	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	na	na	na	0.99 U	0.98 U	0.98 U	0.99 U	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	na	na	na	na	0.99 U	0.98 U	10 U	1.6 U	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	na	na	na	na	2.0 UJ	3.8 U	2.0 U	2.0 U	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

A-7. DRY WEIGHT CONCENTRATIONS OF ALL ANALYTES IN LDW SUBSURFACE SEDIMENT SAMPLES WITH TOC < 0.5% OR >4.0% COMPARED TO DRY WEIGHT CHEMICAL CRITERIA OR GUIDELINES, 1- AND 2-FT SAMPLE INTERVALS

Table A-7a. 1- and 2-ft intervals, samples SC1-SC25

1- AND 2-FT INTERVALS				LDW-SC1	LDW-SC2		LDW-SC7	LDW-SC11			LDW-SC14	LDW-SC15	LDW-SC17	LDW-SC19	LDW-SC24		LDW-SC25
ANALYTE	UNIT	SQS/ SL[a]/ LAET[b]	CSL/ ML[a]/ LAET[b]	LDW-SC1-4-6	LDW-SC2-2-4	LDW-SC2-4-6	LDW-SC7-1.7-4	LDW-SC11-0-0.8	LDW-SC11-2-3.4	LDW-SC11-3.4-4.1	LDW-SC14-10-11	LDW-SC15-8-10	LDW-SC17-2-4	LDW-SC19-9-11.9	LDW-SC24-1-2	LDW-SC24-2-4	LDW-SC25-8-9.1
Metals and trace elements																	
Antimony	mg/kg dw	150	200	na	40 UJ	30 J	6 UJ	9 UJ	7 UJ	6 UJ	na	na	60 J	na	7 UJ	7 UJ	na
Arsenic	mg/kg dw	57	93	na	**210**	**270**	6 U	28	7	9	na	na	**60**	na	11	7 U	na
Cadmium	mg/kg dw	5.1	6.7	na	5	3.9	0.2 U	1.8	0.3 U	0.2 U	na	na	**15**	na	0.3 U	0.3 U	na
Chromium	mg/kg dw	260	270	na	52	22	28.1	56.6	15.7	24.2	na	na	**386**	na	13.7	11.1	na
Copper	mg/kg dw	390	390	na	134 J	123	11.0	270	14.4	16.0	na	na	219	na	40	15.4	na
Lead	mg/kg dw	450	530	na	**1,050**	**1,210**	5	**639**	3	3	na	na	**1,740**	na	8	3 U	na
Mercury	mg/kg dw	0.41	0.59	na	0.28 J		0.04 U	**0.64**	0.05 U	0.05 U	0.05 U	na	**1.29**	na	0.05 U	0.05 U	na
Nickel	mg/kg dw	140	370	na	17	13	37	26	11	25	na	na	**226**	na	9	7	na
Silver	mg/kg dw	6.1	6.1	na	5	4.1	0.4 U	1.6	0.4 U	0.4 U	na	na	2	na	0.4 U	0.4 U	na
Zinc	mg/kg dw	410	960	na	**604**	**1,430**	27.8	**482**	25.2	31.9	na	na	**3,840**	na	38.3	22.6	na
PAHs																	
2-Methylnaphthalene	µg/kg dw	670	1,400	na	62	66 U	20 U	110 U	20 U	19 U	na	na	**4,500**	na	20 U	20 U	na
Acenaphthene	µg/kg dw	500	730	na	78	66 U	20 U	110 U	20 U	19 U	na	na	**4,600**	na	20 U	20 U	na
Acenaphthylene	µg/kg dw	1,300	1,300	na	23 U	66 U	20 U	280	20 U	19 U	na	na	93 J	na	20 U	20 U	na
Anthracene	µg/kg dw	960	4,400	na	86	66 U	20 U	500	20 U	19 U	na	na	**1,900**	na	16 J	20 U	na
Benzo(a)anthracene	µg/kg dw	1,300	1,600	na	120	66 U	20 U	**3,600**	20 U	19 U	na	na	**1,500**	na	50	20 U	na
Benzo(a)pyrene	µg/kg dw	1,600	3,000	na	62 J	66 U	20 U	**3,100**	20 U	19 U	na	na	940	na	56	13 J	na
Benzo(g,h,i)perylene	µg/kg dw	670	720	na	15 J	66 U	20 U	520	20 U	19 U	na	na	140 J	na	12 J	20 U	na
Total benzofluoranthenes	µg/kg dw	3,200	3,600	na	260 J	66 U	20 U	**7,600**	20 U	19 U	na	na	2,700	na	157	36 J	na
Chrysene	µg/kg dw	1,400	2,800	na	170	66 U	20 U	**4,300**	20 U	19 U	na	na	**1,800**	na	59	20 U	na
Dibenzo(a,h)anthracene	µg/kg dw	230	540	na	23 UJ	6.6 U	20 U	150	20 U	19 U	na	na	140 U	na	20 U	20 U	na

A-7, cont. **Dry weight concentrations of all analytes in LDW subsurface sediment samples with TOC < 0.5% or >4.0% compared to dry weight chemical criteria or guidelines, 1- and 2-ft sample intervals**

1- AND 2-FT INTERVALS				LDW-SC1	LDW-SC2		LDW-SC7	LDW-SC11			LDW-SC14	LDW-SC15	LDW-SC17	LDW-SC19	LDW-SC24		LDW-SC25
ANALYTE	UNIT	SQS/ SL[a]/ LAET[b]	CSL/ ML[a]/ LAET[b]	LDW-SC1-4-6	LDW-SC2-2-4	LDW-SC2-4-6	LDW-SC7-1.7-4	LDW-SC11-0-0.8	LDW-SC11-2-3.4	LDW-SC11-3.4-4.1	LDW-SC14-10-11	LDW-SC15-8-10	LDW-SC17-2-4	LDW-SC19-9-11.9	LDW-SC24-1-2	LDW-SC24-2-4	LDW-SC25-8-9.1
Dibenzofuran	µg/kg dw	540	700	na	58	66 U	20 U	110 U	20 U	19 U	na	na	**1,700**	na	20 U	20 U	na
Fluoranthene	µg/kg dw	1,700	2,500	na	490	70	20 U	**8,100**	20 U	19 U	na	na	**7,400**	na	140	20 U	na
Fluorene	µg/kg dw	540	1,000	na	110	66 U	20 U	110 U	20 U	19 U	na	na	**4,300**	na	20 U	20 U	na
Indeno(1,2,3-cd)pyrene	µg/kg dw	600	690	na	13 J	66 U	20 U	**670**	20 U	19 U	na	na	180	na	13 J	20 U	na
Naphthalene	µg/kg dw	2,100	2,400	na	43	60 J	20 U	110 U	20 U	19 U	na	na	**3,400**	na	20 U	20 U	na
Phenanthrene	µg/kg dw	1,500	5,400	na	360	81	20 U	660	20 U	19 U	na	na	**13,000**	na	30	20 U	na
Pyrene	µg/kg dw	2,600	3,300	na	370	70	20 U	**6,700**	20 U	19 U	na	na	**5,700**	na	230	19 J	na
Total HPAH	µg/kg dw	12,000	17,000	na	1,500 J	140	20 U	**34,700**	20 U	19 U	na	na	**20,400 J**	na	720 J	68 J	na
Total LPAH	µg/kg dw	5,200	13,000	na	680	141 J	20 U	1,440	20 U	19 U	na	na	**27,000 J**	na	46 J	20 U	na
Phthalates																	
Bis(2-ethylhexyl)phthalate	µg/kg dw	1,300	1,900	na	**1,800**	92	13 J	310	20 U	19 U	na	na	**2,300**	na	15 J	16 J	na
Butyl benzyl phthalate	µg/kg dw	63	900	na	7.0 U	6.6 U	5.9 UJ	28	5.9 U	5.8 U	na	na	42 U	na	5.9 U	5.9 U	na
Diethyl phthalate	µg/kg dw	200	1,200	na	23 U	66 U	20 U	110 U	20 U	19 U	na	na	140 U	na	20 U	20 U	na
Dimethyl phthalate	µg/kg dw	71	160	na	23 U	6.6 U	20 U	**110 U**	20 U	19 U	na	na	**140 U**	na	20 U	20 U	na
Di-n-butyl phthalate	µg/kg dw	1,400	5,100	na	23 U	66 U	20 U	110 U	20 U	19 U	na	na	140 U	na	13 J	14 J	na
Di-n-octyl phthalate	µg/kg dw	6,200	nv	na	23 U	66 U	20 U	110 U	20 U	19 U	na	na	140 U	na	20 U	20 U	na
Other SVOCs																	
1,2,4-Trichlorobenzene	µg/kg dw	31	51	na	22 UJ	6.6 U	5.9 U	4.5 J	5.9 U	5.8 U	na	na	**110 J**	na	5.9 UJ	5.9 UJ	na
1,2-Dichlorobenzene	µg/kg dw	35	50	na	12	6.6 U	5.9 U	6.5 U	5.9 U	5.8 U	na	na	**42 U**	na	5.9 U	5.9 U	na
1,3-Dichlorobenzene	µg/kg dw	170	nv	na	23 U	6.6 U	20 U	110 U	20 U	19 U	na	na	140 U	na	20 U	20 U	na
1,4-Dichlorobenzene	µg/kg dw	110	120	na	5.6 J	6.6 U	5.9 U	6.5 U	5.9 U	5.8 U	na	na	42 U	na	5.9 U	5.9 U	na
2,4-Dimethylphenol	µg/kg dw	29	29	na	6.3 J	9.2	17 UJ	25 J	5.9 UJ	5.8 U	na	na	**42 UJ**	na	5.9 U	5.9 U	na
2-Methylphenol	µg/kg dw	63	63	na	4.2 J	6.6 U	5.9 UJ	5.2 J	5.9 U	5.8 U	na	na	42 U	na	5.9 U	5.9 U	na
4-Methylphenol	µg/kg dw	670	670	na	41	66 U	20 U	110 U	20 U	19 U	na	na	140 U	na	20 U	20 U	na
Benzoic acid	µg/kg dw	650	650	na	420 J	590 U	59 UJ	130	66	130	na	na	**3,000 J**	na	48 J	59 U	na
Benzyl alcohol	µg/kg dw	57	73	na	35 UJ	33 U	30 UJ	32 U	30 U	29 U	na	na	**210 U**	na	30 U	29 U	na
Hexachlorobenzene	µg/kg dw	22	70	na	7.0 U	6.6 U	0.99 U	6.5 U	5.9 U	5.8 U	na	na	**42 U**	na	5.9 U	5.9 U	na
Hexachlorobutadiene	µg/kg dw	11	120	na	7.0 U	6.6 U	0.99 U	6.5 U	5.9 U	5.8 U	na	na	**42 UJ**	na	5.9 U	5.9 U	na

A-7, cont. Dry weight concentrations of all analytes in LDW subsurface sediment samples with TOC < 0.5% or >4.0% compared to dry weight chemical criteria or guidelines, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC1	LDW-SC2		LDW-SC7	LDW-SC11			LDW-SC14	LDW-SC15	LDW-SC17	LDW-SC19	LDW-SC24		LDW-SC25
ANALYTE	UNIT	SQS/ SL[a]/ LAET[b]	CSL/ ML[a]/ LAET[b]	LDW-SC1-4-6	LDW-SC2-2-4	LDW-SC2-4-6	LDW-SC7-1.7-4	LDW-SC11-0-0.8	LDW-SC11-2-3.4	LDW-SC11-3.4-4.1	LDW-SC14-10-11	LDW-SC15-8-10	LDW-SC17-2-4	LDW-SC19-9-11.9	LDW-SC24-1-2	LDW-SC24-2-4	LDW-SC25-8-9.1
Hexachloroethane	µg/kg dw	1,400	14,000	na	23 U	66 U	20 U	110 U	20 U	19 U	na	na	140 U	na	20 U	20 U	na
N-Nitrosodiphenylamine	µg/kg dw	28	40	na	**580 U**	**83 U**	5.9 U	**63 U**	5.9 U	5.8 U	na	na	**7,300 U**	na	6.5 U	5.9 U	na
Pentachlorophenol	µg/kg dw	360	690	na	24 J	46	30 U	32 U	30 U	29 U	na	na	150 J	na	30 U	29 U	na
Phenol	µg/kg dw	420	1,200	na	26 U	73 U	20 U	110 U	20 U	19 U	na	na	140 U	na	20 U	20 U	na
Polychlorinated biphenyls																	
Total PCBs	µg/kg dw	130	1,000	3.8 U	**2,900**	**209**	5.5 U	**3,000**	3.9 U	4.0 U	3.9 U	4.0 U	**9,800**	3.9 U	36	3.9 U	3.8 U
Pesticides																	
Total DDTs	µg/kg dw	6.9	69	na	**140 U**	na	2.0 U	na	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	**14 U**	na	0.99 U	na	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	**29 U**	na	2.0 U	na	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	**14 U**	na	0.99 U	na	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	**14 U**	na	0.99 U	na	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	**100 U**	na	2.0 U	na	na	na	na	na	na	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

[b] LAET and 2LAET are used for the following chemicals that have SMS values that are OC-normalized: 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, total PCBs, phthalates, PAHs, hexachlorophene, hexachlorobutadiene, and N-nitrosodiphenylamene.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-7b. 1- and 2-ft intervals, samples SC29-SC56

1- and 2-ft Intervals				LDW-SC29	LDW-SC30	LDW-SC31	LDW-SC40		LDW-SC43	LDW-SC45		LDW-SC47	LDW-SC48		LDW-SC50a	LDW-SC52	LDW-SC56
Analyte	Unit	SQS/ SL[a]/ LAET[b]	CSL/ ML[a]/ LAET[b]	LDW-SC29-2-3.6	LDW-SC30-2.5-4	LDW-SC31-2.8-4	LDW-SC40-1.3-2	LDW-SC40-2-4	LDW-SC43-2-4	LDW-SC45-2-4	LDW-SC45-5-6	LDW-SC47-3-4	LDW-SC48-1-2	LDW-SC48-2-4	LDW-SC50-2.8-4	LDW-SC52-2-4	LDW-SC56-2-4
Metals and trace elements																	
Antimony	mg/kg dw	150	200	6 UJ	7 UJ	*6 UJ*	6 UJ	*6 UJ*	6 UJ	8 UJ	na	6 UJ	6 UJ	7 UJ	6 UJ	6 UJ	6 UJ
Arsenic	mg/kg dw	57	93	6 U	7 U	*6 U*	6 U	*6 U*	6 U	25	na	6 U	6 U	7 U	21	6 U	6
Cadmium	mg/kg dw	5.1	6.7	0.2 U	0.3 U	*0.3 U*	0.2 U	*0.2 U*	0.2 U	0.5	na	0.2 U	0.3 U	0.3 U	0.2 U	0.2 U	0.2 U
Chromium	mg/kg dw	260	270	10.6	10.6	*8.9*	17.0	*11.9*	11.4	26.5	na	10	10.8	8.1	11.8	10.3	11.6
Copper	mg/kg dw	390	390	11.3	16.4 J	*9.3*	13.8	*8.3*	13.4	76.5	na	12.4	12.0	7.6	9.4	9.7	11.8
Lead	mg/kg dw	450	530	4	3 U	*3 U*	44	*2 U*	2 U	52	na	7	3 U	3 U	2 U	2 UJ	2 U
Mercury	mg/kg dw	0.41	0.59	0.06 U	0.06 U	*0.04 U*	0.05 U	*0.05 U*	0.05 U	0.17	na	0.05 U	0.04 U	0.05 U	0.06 U	0.17	0.05 U
Nickel	mg/kg dw	140	370	9	6 J	*6*	15	*8*	7	18	na	7	8	6	8	7	10
Silver	mg/kg dw	6.1	6.1	0.4 U	0.4 U	*0.4 U*	0.4 U	*0.4 U*	0.4 U	0.5 U	na	0.3 U	0.4 U	0.4 U	0.3 U	0.4 U	0.3 U
Zinc	mg/kg dw	410	960	31.2	20.5	*18.5*	27.4	*24.5*	22.6	152	na	23.0	23.7 J	16.2 J	47.7	21.1	29.9 J
PAHs																	
2-Methylnaphthalene	µg/kg dw	670	1,400	20 U	19 U	20 U	20 U	20 U	19 U	59 U	na	20 U	20 U	19 U	20 U	20 U	20 U
Acenaphthene	µg/kg dw	500	730	20 U	19 U	20 U	20 U	20 U	19 U	55 J	na	20 U	20 U	19 U	20 U	20 U	20 U
Acenaphthylene	µg/kg dw	1,300	1,300	20 U	19 U	20 U	20 U	20 U	19 U	59 U	na	20 U	20 U	19 U	20 U	20 U	20 U
Anthracene	µg/kg dw	960	4,400	20 U	19 U	20 U	20 U	20 U	19 U	180	na	20 U	20 U	19 U	20 U	20 U	20 U
Benzo(a)anthracene	µg/kg dw	1,300	1,600	20 U	19 U	20 U	20 U	20 U	19 U	770	na	20 U	20 U	19 U	20 U	20 U	20 U
Benzo(a)pyrene	µg/kg dw	1,600	3,000	20 U	19 U	20 U	20 U	20 U	19 U	700	na	20 UJ	20 U	19 U	20 U	20 U	20 U
Benzo(g,h,i)perylene	µg/kg dw	670	720	20 U	19 U	20 U	20 U	20 U	19 U	140	na	20 UJ	20 U	19 U	20 U	20 U	20 U
Total benzofluoranthenes	µg/kg dw	3,200	3,600	20 U	19 U	20 U	20 U	20 U	19 U	2,000	na	20 UJ	20 U	19 U	20 U	20 U	20 U
Chrysene	µg/kg dw	1,400	2,800	20 U	19 U	20 U	20 U	20 U	19 U	920	na	20 U	20 U	19 U	20 U	20 U	20 U
Dibenzo(a,h)anthracene	µg/kg dw	230	540	20 U	19 U	20 U	20 U	20 U	19 U	43 J	na	20 UJ	20 U	19 U	20 U	20 U	20 U
Dibenzofuran	µg/kg dw	540	700	20 U	19 U	20 U	20 U	20 U	19 U	59 U	na	20 U	20 U	19 U	20 U	20 U	20 U
Fluoranthene	µg/kg dw	1,700	2,500	20 U	19 U	20 U	20 U	20 U	19 U	1,400	na	20 U	20 U	19 U	14 J	20 U	20 U
Fluorene	µg/kg dw	540	1,000	20 U	19 U	20 U	20 U	20 U	19 U	62	na	20 U	20 U	19 U	20 U	20 U	20 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	600	690	20 U	19 U	20 U	20 U	20 U	19 U	170	na	20 UJ	20 U	19 U	20 U	20 U	20 U

A-7, cont. **Dry weight concentrations of all analytes in LDW subsurface sediment samples with TOC < 0.5% or >4.0% compared to dry weight chemical criteria or guidelines, 1- and 2-ft sample intervals**

1- AND 2-FT INTERVALS				LDW-SC29	LDW-SC30	LDW-SC31	LDW-SC40		LDW-SC43	LDW-SC45		LDW-SC47	LDW-SC48		LDW-SC50a	LDW-SC52	LDW-SC56
ANALYTE	UNIT	SQS/ SL[a]/ LAET[b]	CSL/ ML[a]/ LAET[b]	LDW-SC29-2-3.6	LDW-SC30-2.5-4	LDW-SC31-2.8-4	LDW-SC40-1.3-2	LDW-SC40-2-4	LDW-SC43-2-4	LDW-SC45-2-4	LDW-SC45-5-6	LDW-SC47-3-4	LDW-SC48-1-2	LDW-SC48-2-4	LDW-SC50-2.8-4	LDW-SC52-2-4	LDW-SC56-2-4
Naphthalene	µg/kg dw	2,100	2,400	20 U	19 U	20 U	20 U	20 U	19 U	59 U	na	20 U	20 U	19 U	20 U	20 U	20 U
Phenanthrene	µg/kg dw	1,500	5,400	20 U	19 U	20 U	20 U	20 U	19 U	600	na	20 U	20 U	19 U	20 U	20 U	20 U
Pyrene	µg/kg dw	2,600	3,300	9.9 J	19 U	20 U	20 U	20 U	19 U	1,500	na	20 UJ	20 U	19 U	11 J	20 U	20 U
Total HPAH	µg/kg dw	12,000	17,000	9.9 J	19 U	20 U	20 U	20 U	19 U	7,600 J	na	20 UJ	20 U	19 U	25 J	20 U	20 U
Total LPAH	µg/kg dw	5,200	13,000	20 U	19 U	20 U	20 U	20 U	19 U	900 J	na	20 U	20 U	19 U	20 U	20 U	20 U
Phthalates																	
Bis(2-ethylhexyl)phthalate	µg/kg dw	1,300	1,900	20 U	19 U	20 U	20 U	20 U	19 U	170	na	17 J	20 U	19 U	20 U	20 U	20 U
Butyl benzyl phthalate	µg/kg dw	63	900	5.8 U	5.8 U	5.8 U	5.9 U	6.0 U	5.8 U	26	na	5.9 U	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U
Diethyl phthalate	µg/kg dw	200	1,200	20 U	19 U	20 U	20 U	20 U	19 U	59 U	na	20 U	20 U	19 U	20 U	20 U	20 U
Dimethyl phthalate	µg/kg dw	71	160	20 U	19 U	20 U	20 U	20 U	19 U	59 U	na	20 U	20 U	19 U	20 U	20 U	20 U
Di-n-butyl phthalate	µg/kg dw	1,400	5,100	22	19 U	11 J	20 U	20 U	19 U	59 U	na	20 U	11 J	19 U	20 U	20 U	10 J
Di-n-octyl phthalate	µg/kg dw	6,200	nv	20 U	19 U	20 U	20 U	20 U	19 U	59 U	na	20 U	20 U	19 U	20 U	20 U	20 U
Other SVOCs																	
1,2,4-Trichlorobenzene	µg/kg dw	31	51	5.8 U	5.8 U	5.8 U	5.9 UJ	6.0 UJ	5.8 UJ	5.9 UJ	na	5.9 U	5.9 U	5.8 U	6.0 UJ	5.9 U	5.9 U
1,2-Dichlorobenzene	µg/kg dw	35	50	5.8 U	5.8 U	5.8 U	5.9 U	6.0 U	5.8 U	5.9 U	na	5.9 U	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	20 U	19 U	20 U	20 U	20 U	19 U	59 U	na	20 U	20 U	19 U	20 U	20 U	20 U
1,4-Dichlorobenzene	µg/kg dw	110	120	5.8 U	5.8 U	5.8 U	5.9 U	6.0 U	5.8 U	5.9 U	na	5.9 U	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U
2,4-Dimethylphenol	µg/kg dw	29	29	5.8 U	5.8 U	5.8 U	5.9 UJ	6.0 UJ	5.8 U	5.9 UJ	na	5.9 U	5.9 U	5.8 U	6.0 UJ	5.9 U	5.9 U
2-Methylphenol	µg/kg dw	63	63	5.8 U	5.8 U	5.8 U	5.9 U	6.0 U	5.8 U	4.7 J	na	5.9 U	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U
4-Methylphenol	µg/kg dw	670	670	20 U	19 U	20 U	20 U	20 UJ	19 U	59 U	na	20 U	20 UJ	19 U	20 U	20 U	20 U
Benzoic acid	µg/kg dw	650	650	68 J	58 U	57 J	71 UJ	67 UJ	130 J	130 J	na	35 J	54 J	58 U	64 UJ	59	54 J
Benzyl alcohol	µg/kg dw	57	73	29 U	29 U	29 U	30 U	30 U	29 U	30 U	na	30 U	30 U	29 U	30 U	30 U	29 U
Hexachlorobenzene	µg/kg dw	22	70	5.8 U	5.8 U	0.96 U	0.99 U	0.98 U	5.8 U	5.9 U	na	5.9 U	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U
Hexachlorobutadiene	µg/kg dw	11	120	5.8 U	5.8 U	0.96 U	0.99 U	0.98 U	5.8 U	5.9 UJ	na	5.9 U	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U
Hexachloroethane	µg/kg dw	1,400	14,000	20 U	19 U	20 U	20 U	20 U	19 U	59 U	na	20 U	20 U	19 U	20 U	20 U	20 U
N-Nitrosodiphenylamine	µg/kg dw	28	40	5.8 UJ	5.8 U	5.8 U	5.9 U	6.0 U	5.8 UJ	**40 U**	na	5.9 UJ	5.9 U	5.8 U	6.0 U	5.9 U	5.9 U
Pentachlorophenol	µg/kg dw	360	690	29 U	29 U	29 U	30 U	30 U	29 U	85	na	30 U	30 U	29 U	30 U	30 U	29 U
Phenol	µg/kg dw	420	1,200	20 U	19 U	20 U	20 U	20 UJ	19 U	59 U	na	20 U	20 UJ	19 U	13 J	20 U	20 U

A-7, cont. Dry weight concentrations of all analytes in LDW subsurface sediment samples with TOC < 0.5% or >4.0% compared to dry weight chemical criteria or guidelines, 1- and 2-ft sample intervals

1- AND 2-FT INTERVALS				LDW-SC29	LDW-SC30	LDW-SC31	LDW-SC40		LDW-SC43	LDW-SC45		LDW-SC47	LDW-SC48		LDW-SC50a	LDW-SC52	LDW-SC56
ANALYTE	UNIT	SQS/ SL[a]/ LAET[b]	CSL/ ML[a]/ LAET[b]	LDW-SC29-2-3.6	LDW-SC30-2.5-4	LDW-SC31-2.8-4	LDW-SC40-1.3-2	LDW-SC40-2-4	LDW-SC43-2-4	LDW-SC45-2-4	LDW-SC45-5-6	LDW-SC47-3-4	LDW-SC48-1-2	LDW-SC48-2-4	LDW-SC50-2.8-4	LDW-SC52-2-4	LDW-SC56-2-4
Polychlorinated biphenyls																	
Total PCBs	µg/kg dw	130	1,000	3.9 U	3.9 U	2.7 J	4.0 UJ	3.9 UJ	3.9 UJ	**570**	122	4.0 UJ	3.8 U	3.9 U	3.8 UJ	4.0 U	3.9 U
Pesticides																	
Total DDTs	µg/kg dw	6.9	69	na	na	1.9 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na	na
Aldrin	µg/kg dw	10	nv	na	na	0.96 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na	na
Dieldrin	µg/kg dw	10	nv	na	na	1.9 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na	na
gamma-BHC	µg/kg dw	10	nv	na	na	0.96 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na	na
Heptachlor	µg/kg dw	10	nv	na	na	0.96 U	0.99 U	0.98 U	na	na	na	na	na	na	na	na	na
Total chlordane	µg/kg dw	10	nv	na	na	1.9 U	2.0 U	2.0 U	na	na	na	na	na	na	na	na	na

[a] SL and ML are used for the following chemicals with no SMS criteria: antimony, nickel, 1,3-dichlorobenzene, hexachloroethane, and pesticides.

[b] LAET and 2LAET are used for the following chemicals that have SMS values that are OC-normalized: 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, total PCBs, phthalates, PAHs, hexachlorophene, hexachlorobutadiene, and N-nitrosodiphenylamene.

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

A-8. CONCENTRATIONS OF ALL ANALYTES IN LDW SUBSURFACE SEDIMENT SAMPLES COMPARED TO SQS/SL AND CSL/ML FOR LDW SUBSURFACE SEDIMENT SAMPLES WITH TOC ≥ 0.5% AND ≤ 4%, 0.5-FT SAMPLE INTERVALS

Table A-8a. 0.5-ft intervals, samples SC1 and SC6

0.5-FT INTERVALS				LDW-SC1				LDW-SC6								
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC1-0-0.5	LDW-SC1-0.5-1	LDW-SC1-1-1.5	LDW-SC1-1.5-2	LDW-SC6-0-0.5	LDW-SC6-0.5-1	LDW-SC6-1-1.5	LDW-SC6-1.5-2	LDW-SC6-2-2.5	LDW-SC6-2.5-3	LDW-SC6-3-3.5	LDW-SC6-3.5-4	LDW-SC6-4-4.5
Metals and trace elements						-	-									
Lead	mg/kg dw	450	530	na	na	na	na	na	na	na	na	na	na	na	na	na
Mercury	mg/kg dw	0.41	0.59	*0.27*	0.33	**1.27**	**1.22**	na	na	na	na	na	na	na	na	na
PAHs						-	-									
2-Methylnaphthalene	mg/kg OC	38	64	2.9 U	3.1 U	3.1 U	2.6 U	na	na	na	na	na	na	na	na	na
Acenaphthene	mg/kg OC	16	57	2.9 U	3.1 U	3.1 U	2.6 U	na	na	na	na	na	na	na	na	na
Acenaphthylene	mg/kg OC	66	66	2.9 U	3.1 U	3.1 U	2.6 U	na	na	na	na	na	na	na	na	na
Anthracene	mg/kg OC	220	1,200	5.1	2.2 J	5.1	3.3	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	mg/kg OC	110	270	14	7.1	9.2	6.8	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	mg/kg OC	99	210	19	12	15	14	na	na	na	na	na	na	na	na	na
Benzo(g,h,i)perylene	mg/kg OC	31	78	11	9.1	6.2	5.9	na	na	na	na	na	na	na	na	na
Total Benzofluoranthenes	mg/kg OC	230	450	59	33	41	36	na	na	na	na	na	na	na	na	na
Chrysene	mg/kg OC	110	460	31	12	15	12	na	na	na	na	na	na	na	na	na
Dibenzo(a,h)anthracene	mg/kg OC	12	33	2.3 J	1.4 J	1.2	1.7	na	na	na	na	na	na	na	na	na
Dibenzofuran	mg/kg OC	15	58	2.9 U	3.1 U	3.1 U	2.6 U	na	na	na	na	na	na	na	na	na
Fluoranthene	mg/kg OC	160	1,200	35	13	8.7	9.7	na	na	na	na	na	na	na	na	na
Fluorene	mg/kg OC	23	79	2.9 U	3.1 U	3.1 U	2.6 U	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	11	8.1	6.2	6.8	na	na	na	na	na	na	na	na	na
Naphthalene	mg/kg OC	99	170	2.9 U	3.1 U	3.1 U	2.6 U	na	na	na	na	na	na	na	na	na
Phenanthrene	mg/kg OC	100	480	14	6.6	6.2	4.7	na	na	na	na	na	na	na	na	na
Pyrene	mg/kg OC	1,000	1,400	38	34	38	35	na	na	na	na	na	na	na	na	na
Total HPAH	mg/kg OC	960	5,300	220 J	130 J	140	130	na	na	na	na	na	na	na	na	na
Total LPAH	mg/kg OC	370	780	19	8.6 J	11	8.1	na	na	na	na	na	na	na	na	na

A-8, cont. Concentrations of all analytes in LDW subsurface sediment samples compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 0.5-ft sample intervals

0.5-FT INTERVALS				LDW-SC1				LDW-SC6								
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC1-0-0.5	LDW-SC1-0.5-1	LDW-SC1-1-1.5	LDW-SC1-1.5-2	LDW-SC6-0-0.5	LDW-SC6-0.5-1	LDW-SC6-1-1.5	LDW-SC6-1.5-2	LDW-SC6-2-2.5	LDW-SC6-2.5-3	LDW-SC6-3-3.5	LDW-SC6-3.5-4	LDW-SC6-4-4.5
Phthalates																
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	32	20	**120**	42	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	mg/kg OC	4.9	64	2.1 J	1.9	**5.0 J**	3.9 J	na	na	na	na	na	na	na	na	na
Diethyl phthalate	mg/kg OC	61	110	2.9 U	3.1 U	3.1 U	2.6 U	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	mg/kg OC	53	53	2.9 U	3.1 U	3.1 U	2.6 U	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	mg/kg OC	220	1,700	2.9 U	3.1 U	1.6 J	1.8 J	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	mg/kg OC	58	4,500	2.9 U	3.1 U	3.1 U	2.6 U	na	na	na	na	na	na	na	na	na
Other SVOCs																
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.29 U	0.31 UJ	**1.0**	0.59	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.29 U	0.31 U	0.67	0.39	na	na	na	na	na	na	na	na	na
1,3-Dichlorobenzene	µg/kg dw	170	nv	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.29 U	0.31 U	0.47	0.29	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg dw	29	29	6.2 U	6.2 U	6.1 U	6.2 U	na	na	na	na	na	na	na	na	na
2-Methylphenol	µg/kg dw	63	63	6.2 U	6.2 U	9.2	14	na	na	na	na	na	na	na	na	na
4-Methylphenol	µg/kg dw	670	670	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg dw	650	650	620 U	620 U	610 U	620 U	na	na	na	na	na	na	na	na	na
Benzyl alcohol	µg/kg dw	57	73	31 U	31 U	31 U	31 U	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.29 U	0.31 U	0.31 U	0.26 U	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.29 U	0.31 U	0.31 U	0.26 U	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg dw	1,400	14,000	62 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
N-Nitrosodiphenylamine	mg/kg OC	11	11	0.29 U	0.31 U	0.31 U	0.26 U	na	na	na	na	na	na	na	na	na
Pentachlorophenol	µg/kg dw	360	690	14 J	31 U	31 U	31 U	na	na	na	na	na	na	na	na	na
Phenol	µg/kg dw	420	1,200	70 U	62 U	61 U	62 U	na	na	na	na	na	na	na	na	na
Polychlorinated biphenyls																
PCBs (total calc'd)	mg/kg OC	12	65	3.9	**18**	**340**	**180**	7.0	5.1	11	5.0	7.8	**26**	**31**	**200**	**120**

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

A-8, cont. Concentrations of all analytes in LDW subsurface sediment samples compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 0.5-ft sample intervals

Table A-8b. 0.5-ft intervals, samples SC12 and SC13

0.5-FT INTERVALS				LDW-SC12								LDW-SC13						
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC12-0-0.5	LDW-SC12-0.5-1	LDW-SC12-1-1.5	LDW-SC12-1.5-2	LDW-SC12-2-2.5	LDW-SC12-2.5-3	LDW-SC12-3-3.5	LDW-SC12-3.5-4	LDW-SC13-0-0.5	LDW-SC13-0.5-1	LDW-SC13-1-1.5	LDW-SC13-1.5-2	LDW-SC13-2-2.5	LDW-SC13-2.5-3	LDW-SC13-3-3.5
Metals and trace elements																		
Lead	mg/kg dw	450	530	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Mercury	mg/kg dw	0.41	0.59	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PAHs																		
2-Methylnaphthalene	mg/kg OC	38	64	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenaphthene	mg/kg OC	16	57	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenaphthylene	mg/kg OC	66	66	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	mg/kg OC	220	1,200	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	mg/kg OC	110	270	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	mg/kg OC	99	210	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,i)perylene	mg/kg OC	31	78	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Benzofluoranthenes	mg/kg OC	230	450	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chrysene	mg/kg OC	110	460	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzo(a,h)anthracene	mg/kg OC	12	33	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	mg/kg OC	15	58	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	mg/kg OC	160	1,200	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluorene	mg/kg OC	23	79	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Naphthalene	mg/kg OC	99	170	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenanthrene	mg/kg OC	100	480	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	mg/kg OC	1,000	1,400	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total HPAH	mg/kg OC	960	5,300	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total LPAH	mg/kg OC	370	780	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phthalates																		
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	mg/kg OC	4.9	64	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

A-8, cont. Concentrations of all analytes in LDW subsurface sediment samples compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 0.5-ft sample intervals

0.5-FT INTERVALS				LDW-SC12								LDW-SC13						
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC12-0-0.5	LDW-SC12-0.5-1	LDW-SC12-1-1.5	LDW-SC12-1.5-2	LDW-SC12-2-2.5	LDW-SC12-2.5-3	LDW-SC12-3-3.5	LDW-SC12-3.5-4	LDW-SC13-0-0.5	LDW-SC13-0.5-1	LDW-SC13-1-1.5	LDW-SC13-1.5-2	LDW-SC13-2-2.5	LDW-SC13-2.5-3	LDW-SC13-3-3.5
Diethyl phthalate	mg/kg OC	61	110	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dimethyl phthalate	mg/kg OC	53	53	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	mg/kg OC	220	1,700	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	mg/kg OC	58	4,500	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other SVOCs																		
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3-Dichlorobenzene	µg/kg dw	170	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4-Dichlorobenzene	mg/kg OC	3.1	9	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg dw	29	29	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol	µg/kg dw	63	63	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Methylphenol	µg/kg dw	670	670	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg dw	650	650	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzyl alcohol	µg/kg dw	57	73	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	mg/kg OC	0.38	2.3	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	mg/kg OC	3.9	6.2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg dw	1,400	14,000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-Nitrosodiphenylamine	mg/kg OC	11	11	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pentachlorophenol	µg/kg dw	360	690	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg dw	420	1,200	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Polychlorinated biphenyls																		
PCBs (total calc'd)	mg/kg OC	12	65	4.8	5.4	7.2	**16**	**89 J**	**38**	8.8	**49**	**30**	**14**	11	11	3.5	0.21 U	0.25 U

Concentration in **bold** indicates SQS/SL exceedance.
Concentration in **bold underline** indicates CSL/ML exceedance.
Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-8c. 0.5-ft intervals, sample SC23

0.5-FT INTERVALS				LDW-SC23							
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC23-0-0.5	LDW-SC23-0.5-1	LDW-SC23-1-1.5	LDW-SC23-1.5-2	LDW-SC23-2-2.5	LDW-SC23-2.5-3	LDW-SC23-3-3.5	LDW-SC23-3.5-4
Metals and trace elements											
Lead	mg/kg dw	450	530	na	na	na	na	na	na	na	na
Mercury	mg/kg dw	0.41	0.59	na	na	na	na	na	na	na	na
PAHs											
2-Methylnaphthalene	mg/kg OC	38	64	3.0 U	2.9 U	3.5 U	3.9 U	5.0	4.5 U	9.2	2.7 U
Acenaphthene	mg/kg OC	16	57	3.0 U	2.9 U	2.3 J	3.0 J	8.4	**41**	**160**	**66**
Acenaphthylene	mg/kg OC	66	66	1.6 J	2.9 U	3.5 U	3.9 U	2.3 J	4.5 U	10	3.3
Anthracene	mg/kg OC	220	1,200	6.8	4.0	6.8	5.4	27	12	**680**	48
Benzo(a)anthracene	mg/kg OC	110	270	21	13	18	21	62	16	**550**	**120**
Benzo(a)pyrene	mg/kg OC	99	210	20	15	23	23	46	7.9	**230**	52
Benzo(g,h,i)perylene	mg/kg OC	31	78	11	8.3	11	12	24	3.3 J	**56**	12
Total Benzofluoranthenes	mg/kg OC	230	450	49	37	53	48	86	19	**490**	140
Chrysene	mg/kg OC	110	460	34	22	28	31	62	17	**600**	**140**
Dibenzo(a,h)anthracene	mg/kg OC	12	33	1.6 J	1.1 J	1.6 J	2.0 J	4.5	1.0	**14**	3.5
Dibenzofuran	mg/kg OC	15	58	3.0 U	2.9 U	3.5 U	3.9 U	6.7	7.9	**50**	14
Fluoranthene	mg/kg OC	160	1,200	45	19	33	47	130	86	**1,800**	**440**
Fluorene	mg/kg OC	23	79	3.0 U	2.9 U	2.7 J	2.8 J	11	17	**140**	20
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	11	8.3	12	13	22	3.5 J	**72**	16
Naphthalene	mg/kg OC	99	170	3.0 U	2.9 U	3.5 U	3.9 U	6.2	4.5 U	15	2.4 J
Phenanthrene	mg/kg OC	100	480	10	6.5	22	30	96	27	**920**	57
Pyrene	mg/kg OC	1,000	1,400	45	30	57	63	170	50	**1,100**	190
Total HPAH	mg/kg OC	960	5,300	240 J	150 J	240 J	260 J	610	200 J	**4,900**	**1,100**
Total LPAH	mg/kg OC	370	780	19 J	11	34 J	41 J	150 J	97	**1,900**	200 J
Phthalates										-	
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	17	19	18	6.9	6.2	4.9	**60**	17
Butyl benzyl phthalate	mg/kg OC	4.9	64	2.0 J	1.8 J	1.7 J	0.63 J	0.48	0.58	2.5	1.3

A-8, cont. Concentrations of all analytes in LDW subsurface sediment samples compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 0.5-ft sample intervals

0.5-FT INTERVALS				LDW-SC23							
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC23-0-0.5	LDW-SC23-0.5-1	LDW-SC23-1-1.5	LDW-SC23-1.5-2	LDW-SC23-2-2.5	LDW-SC23-2.5-3	LDW-SC23-3-3.5	LDW-SC23-3.5-4
Diethyl phthalate	mg/kg OC	61	110	3.0 U	2.9 U	3.5 U	3.9 U	3.5 U	4.5 U	4.8 U	2.7 U
Dimethyl phthalate	mg/kg OC	53	53	3.0 U	2.9 U	3.5 U	3.9 U	3.5 U	4.5 U	4.8 U	2.7 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	3.0 U	2.9 U	3.5 U	3.9 U	3.5 U	4.5 U	4.8 U	2.7 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	3.0 U	2.9 U	3.5 U	3.9 U	3.5 U	4.5 U	4.8 U	2.7 U
Other SVOCs											
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	0.30 U	0.29 U	0.35 U	0.39 UJ	0.35 UJ	0.45 UJ	0.48 UJ	0.27 UJ
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	0.30 U	0.29 U	0.35 U	0.39 UJ	0.35 U	0.45 U	0.48 U	0.27 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	0.18 J	0.29 U	0.35 U	0.39 UJ	0.35 U	0.45 U	0.48 U	0.27 U
2,4-Dimethylphenol	µg/kg dw	29	29	6.1 U	6.2 U	6.1 U	6.2 U	6.2 UJ	6.2 UJ	9.9 J	6.1 UJ
2-Methylphenol	µg/kg dw	63	63	6.1	6.2	6.1 U	9.3	8.6 J	6.2 UJ	8.7 J	6.1 J
4-Methylphenol	µg/kg dw	670	670	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U
Benzoic acid	µg/kg dw	650	650	610 U	620 U	610 U	620 U	620 U	620 U	620 U	610 U
Benzyl alcohol	µg/kg dw	57	73	31 U	31 U	31 U	31 UJ	31 U	31 U	34 U	31 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	0.30 U	0.29 U	0.35 U	**0.39 UJ**	0.35 U	**0.45 U**	**0.48 U**	0.27 U
Hexachlorobutadiene	mg/kg OC	3.9	6.2	0.30 U	0.29 U	0.35 U	0.39 UJ	0.35 U	0.45 U	0.48 U	0.27 U
Hexachloroethane	µg/kg dw	1,400	14,000	61 U	62 U	61 U	62 U	62 U	62 U	62 U	61 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	0.30 U	0.29 U	0.35 U	0.39 UJ	0.35 U	0.45 U	2.9 U	0.27 U
Pentachlorophenol	µg/kg dw	360	690	31 U	31 U	31 U	31 U	31 U	31 U	31 U	31 U
Phenol	µg/kg dw	420	1,200	400 U	65 U	61 U	62 U	62 U	62 U	62 U	61 U
Polychlorinated biphenyls											
PCBs (total calc'd)	mg/kg OC	12	65	na	na	na	na	na	na	na	na

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-8d. 0.5-ft intervals, samples SC27 and SC33

0.5-FT INTERVALS				LDW-SC27									LDW-SC33					
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC27-0-0.5	LDW-SC27-0.5-1	LDW-SC27-1-1.5	LDW-SC27-1.5-2	LDW-SC27-2-2.5	LDW-SC27-2.5-3	LDW-SC27-3-3.5	LDW-SC27-3.5-4	LDW-SC27-4-4.5	LDW-SC33-0-0.5	LDW-SC33-0.5-1	LDW-SC33-1-1.5	LDW-SC33-1.5-2	LDW-SC33-2-2.5	LDW-SC33-2.5-3
Metals and trace elements																		
Lead	mg/kg dw	450	530	na	na	na	na	na	na	na	na	na	*72*	177	117	84	21	45
Mercury	mg/kg dw	0.41	0.59	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
PAHs																		
2-Methylnaphthalene	mg/kg OC	38	64	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenaphthene	mg/kg OC	16	57	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Acenaphthylene	mg/kg OC	66	66	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Anthracene	mg/kg OC	220	1,200	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)anthracene	mg/kg OC	110	270	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(a)pyrene	mg/kg OC	99	210	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzo(g,h,i)perylene	mg/kg OC	31	78	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Benzofluoranthenes	mg/kg OC	230	450	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chrysene	mg/kg OC	110	460	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzo(a,h)anthracene	mg/kg OC	12	33	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Dibenzofuran	mg/kg OC	15	58	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluoranthene	mg/kg OC	160	1,200	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Fluorene	mg/kg OC	23	79	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Naphthalene	mg/kg OC	99	170	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenanthrene	mg/kg OC	100	480	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pyrene	mg/kg OC	1,000	1,400	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total HPAH	mg/kg OC	960	5,300	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total LPAH	mg/kg OC	370	780	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phthalates																		
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Butyl benzyl phthalate	mg/kg OC	4.9	64	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Diethyl phthalate	mg/kg OC	61	110	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

A-8, cont. Concentrations of all analytes in LDW subsurface sediment samples compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 0.5-ft sample intervals

0.5-FT INTERVALS				LDW-SC27									LDW-SC33					
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC27-0-0.5	LDW-SC27-0.5-1	LDW-SC27-1-1.5	LDW-SC27-1.5-2	LDW-SC27-2-2.5	LDW-SC27-2.5-3	LDW-SC27-3-3.5	LDW-SC27-3.5-4	LDW-SC27-4-4.5	LDW-SC33-0-0.5	LDW-SC33-0.5-1	LDW-SC33-1-1.5	LDW-SC33-1.5-2	LDW-SC33-2-2.5	LDW-SC33-2.5-3
Dimethyl phthalate	mg/kg OC	53	53	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-butyl phthalate	mg/kg OC	220	1,700	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Di-n-octyl phthalate	mg/kg OC	58	4,500	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Other SVOCs																		
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3-Dichlorobenzene	µg/kg dw	170	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4-Dichlorobenzene	mg/kg OC	3.1	9	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2,4-Dimethylphenol	µg/kg dw	29	29	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
2-Methylphenol	µg/kg dw	63	63	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Methylphenol	µg/kg dw	670	670	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzoic acid	µg/kg dw	650	650	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Benzyl alcohol	µg/kg dw	57	73	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobenzene	mg/kg OC	0.38	2.3	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachlorobutadiene	mg/kg OC	3.9	6.2	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexachloroethane	µg/kg dw	1,400	14,000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
N-Nitrosodiphenylamine	mg/kg OC	11	11	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Pentachlorophenol	µg/kg dw	360	690	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Phenol	µg/kg dw	420	1,200	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Polychlorinated biphenyls																		
PCBs (total calc'd)	mg/kg OC	12	65	**16**	**110**	**260**	**83**	**39**	**13**	3.3	0.34 U	0.20 U	**28**	**37**	**190**	**100 J**	**16**	**47**

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **bold underline** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

Table A-8e. 0.5-ft intervals, samples SC44 and SC51

0.5-FT INTERVALS				LDW-SC44							LDW-SC51		
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC44-0-0.5	LDW-SC44-0.5-1	LDW-SC44-1-1.5	LDW-SC44-1.5-2	LDW-SC44-2-2.5	LDW-SC44-2.5-3	LDW-SC44-3-3.5	LDW-SC51-0-0.5	LDW-SC51-0.5-1	LDW-SC51-1.5-2
Metals and trace elements													
Lead	mg/kg dw	450	530	na	na	na	na	na	na	na	na	na	na
Mercury	mg/kg dw	0.41	0.59	na	na	na	na	na	na	na	na	na	na
PAHs													
2-Methylnaphthalene	mg/kg OC	38	64	na	na	na	na	na	na	na	4.9	3.7 U	9.6 U
Acenaphthene	mg/kg OC	16	57	na	na	na	na	na	na	na	**22**	11	13
Acenaphthylene	mg/kg OC	66	66	na	na	na	na	na	na	na	3.8 U	3.7 U	9.6 U
Anthracene	mg/kg OC	220	1,200	na	na	na	na	na	na	na	34	9.8	6.5 J
Benzo(a)anthracene	mg/kg OC	110	270	na	na	na	na	na	na	na	99	25	11
Benzo(a)pyrene	mg/kg OC	99	210	na	na	na	na	na	na	na	99	24	6.5 J
Benzo(g,h,i)perylene	mg/kg OC	31	78	na	na	na	na	na	na	na	**37**	7.9	9.6 U
Total Benzofluoranthenes	mg/kg OC	230	450	na	na	na	na	na	na	na	190	47	16 J
Chrysene	mg/kg OC	110	460	na	na	na	na	na	na	na	**120**	30	10
Dibenzo(a,h)anthracene	mg/kg OC	12	33	na	na	na	na	na	na	na	9.9	2.3	0.58 J
Dibenzofuran	mg/kg OC	15	58	na	na	na	na	na	na	na	14	5.4	14
Fluoranthene	mg/kg OC	160	1,200	na	na	na	na	na	na	na	**250**	73	110
Fluorene	mg/kg OC	23	79	na	na	na	na	na	na	na	20	6.7	9.6 U
Indeno(1,2,3-cd)pyrene	mg/kg OC	34	88	na	na	na	na	na	na	na	**43**	9.8	9.6 U
Naphthalene	mg/kg OC	99	170	na	na	na	na	na	na	na	14	3.3 J	9.6 U
Phenanthrene	mg/kg OC	100	480	na	na	na	na	na	na	na	**140**	51	15
Pyrene	mg/kg OC	1,000	1,400	na	na	na	na	na	na	na	160	55	56
Total HPAH	mg/kg OC	960	5,300	na	na	na	na	na	na	na	**1,000**	270	210 J
Total LPAH	mg/kg OC	370	780	na	na	na	na	na	na	na	230	82 J	35 J
Phthalates													
Bis(2-ethylhexyl)phthalate	mg/kg OC	47	78	na	na	na	na	na	na	na	**60**	**110**	12
Butyl benzyl phthalate	mg/kg OC	4.9	64	na	na	na	na	na	na	na	2.7	2.1	2.6

A-8, cont. Concentrations of all analytes in LDW subsurface sediment samples compared to SQS/SL and CSL/ML for LDW subsurface sediment samples with TOC ≥ 0.5% and ≤ 4%, 0.5-ft sample intervals

0.5-FT INTERVALS				LDW-SC44							LDW-SC51		
ANALYTE	UNIT	SQS/ SL	CSL/ ML	LDW-SC44-0-0.5	LDW-SC44-0.5-1	LDW-SC44-1-1.5	LDW-SC44-1.5-2	LDW-SC44-2-2.5	LDW-SC44-2.5-3	LDW-SC44-3-3.5	LDW-SC51-0-0.5	LDW-SC51-0.5-1	LDW-SC51-1.5-2
Diethyl phthalate	mg/kg OC	61	110	na	na	na	na	na	na	na	3.8 U	3.7 U	9.6 U
Dimethyl phthalate	mg/kg OC	53	53	na	na	na	na	na	na	na	3.8 U	3.7 U	9.6 U
Di-n-butyl phthalate	mg/kg OC	220	1,700	na	na	na	na	na	na	na	2.7 J	3.1 J	9.6 U
Di-n-octyl phthalate	mg/kg OC	58	4,500	na	na	na	na	na	na	na	3.8 U	3.7 U	9.6 U
Other SVOCs													
1,2,4-Trichlorobenzene	mg/kg OC	0.81	1.8	na	na	na	na	na	na	na	0.38 UJ	0.37 UJ	**0.96 UJ**
1,2-Dichlorobenzene	mg/kg OC	2.3	2.3	na	na	na	na	na	na	na	0.38 U	0.29 J	0.96
1,3-Dichlorobenzene	µg/kg dw	170	nv	na	na	na	na	na	na	na	61 U	60 U	62 U
1,4-Dichlorobenzene	mg/kg OC	3.1	9	na	na	na	na	na	na	na	0.38 U	0.37 U	1.4
2,4-Dimethylphenol	µg/kg dw	29	29	na	na	na	na	na	na	na	6.1 UJ	6.0 UJ	6.2 UJ
2-Methylphenol	µg/kg dw	63	63	na	na	na	na	na	na	na	21 J	6.0 UJ	6.2 UJ
4-Methylphenol	µg/kg dw	670	670	na	na	na	na	na	na	na	61 U	60 U	62 U
Benzoic acid	µg/kg dw	650	650	na	na	na	na	na	na	na	610 U	600 U	620 U
Benzyl alcohol	µg/kg dw	57	73	na	na	na	na	na	na	na	**<u>180</u>**	30 U	31 U
Hexachlorobenzene	mg/kg OC	0.38	2.3	na	na	na	na	na	na	na	0.38 U	0.37 U	**0.96 U**
Hexachlorobutadiene	mg/kg OC	3.9	6.2	na	na	na	na	na	na	na	0.38 U	0.37 U	0.96 U
Hexachloroethane	µg/kg dw	1,400	14,000	na	na	na	na	na	na	na	61 U	60 U	62 U
N-Nitrosodiphenylamine	mg/kg OC	11	11	na	na	na	na	na	na	na	0.38 U	0.37 U	0.96 U
Pentachlorophenol	µg/kg dw	360	690	na	na	na	na	na	na	na	30 U	30 U	31 U
Phenol	µg/kg dw	420	1,200	na	na	na	na	na	na	na	96 U	60 U	62 U
Polychlorinated biphenyls													
PCBs (total calc'd)	mg/kg OC	12	65	**15**	**52 J**	12	7.3	**14**	8.9	0.26 U	na	na	na

Concentration in **bold** indicates SQS/SL exceedance.

Concentration in **<u>bold underline</u>** indicates CSL/ML exceedance.

Concentration in *italics* indicates that laboratory replicate was run for sample. Value reported was based on averaging rules in Appendix C.

A-9. DRY WEIGHT CONCENTRATIONS OF ANALYTES IN LDW SUBSURFACE SEDIMENT SAMPLES WITH TOC < 0.5% OR >4.0% COMPARED TO DRY WEIGHT CHEMICAL CRITERIA OR GUIDELINES 0.5-FT SAMPLE INTERVALS

ANALYTE	UNIT	SQS/SL/LAET	CSL/ML/2LAET	LDW-SC51-1-1.5
PAHs				
2-Methylnaphthalene	µg/kg dw	670	1,400	62 U
Acenaphthene	µg/kg dw	500	730	250
Acenaphthylene	µg/kg dw	1,300	1,300	62 U
Anthracene	µg/kg dw	960	4,400	59 J
Benzo(a)anthracene	µg/kg dw	1,300	1600	130
Benzo(a)pyrene	µg/kg dw	1,600	3,000	50 J
Benzo(g,h,i)perylene	µg/kg dw	670	720	62 U
Total benzofluoranthenes	µg/kg dw	3,200	3,600	141 J
Chrysene	µg/kg dw	1,400	2,800	120
Dibenzo(a,h)anthracene	µg/kg dw	230	540	4.3 J
Dibenzofuran	µg/kg dw	540	700	130
Fluoranthene	µg/kg dw	1,700	2,500	720
Fluorene	µg/kg dw	540	1,000	62 U
Indeno(1,2,3-cd)pyrene	µg/kg dw	600	690	62 U
Naphthalene	µg/kg dw	2,100	2,400	62 U
Phenanthrene	µg/kg dw	1,500	5,400	120
Pyrene	µg/kg dw	2,600	3,300	400
Total HPAH	µg/kg dw	12,000	17,000	1,570 J
Total LPAH	µg/kg dw	5,200	13,000	430 J
Phthalates				
Bis(2-ethylhexyl)phthalate	µg/kg dw	1,300	1,900	62 U
Butyl benzyl phthalate	µg/kg dw	63	900	10
Diethyl phthalate	µg/kg dw	200	1,200	62 U
Dimethyl phthalate	µg/kg dw	71	160	62 U
Di-n-butyl phthalate	µg/kg dw	1,400	5,100	62 U
Di-n-octyl phthalate	µg/kg dw	6,200	nv	62 U
Other SVOCs				
1,2,4-Trichlorobenzene	µg/kg dw	31	51	6.2 UJ
1,2-Dichlorobenzene	µg/kg dw	35	50	6.2 U
1,3-Dichlorobenzene	µg/kg dw	170	nv	62 U
1,4-Dichlorobenzene	µg/kg dw	110	120	6.2 U
2,4-Dimethylphenol	µg/kg dw	29	29	6.2 UJ
2-Methylphenol	µg/kg dw	63	63	6.2 UJ

ANALYTE	UNIT	SQS/SL/LAET	CSL/ML/2LAET	LDW-SC51-1-1.5
4-Methylphenol	µg/kg dw	670	670	62 U
Benzoic acid	µg/kg dw	650	650	620 U
Benzyl alcohol	µg/kg dw	57	73	31 U
Hexachlorobenzene	µg/kg dw	22	70	6.2 U
Hexachlorobutadiene	µg/kg dw	11	120	6.2 U
Hexachloroethane	µg/kg dw	1,400	14,000	62 U
N-Nitrosodiphenylamine	µg/kg dw	28	40	6.2 U
Pentachlorophenol	µg/kg dw	360	690	31 U
Phenol	µg/kg dw	420	1,200	62 U

A-10. CONCENTRATIONS OF ALL ANALYTES IN LDW SUBSURFACE SEDIMENT SAMPLES FROM LOCATION SC49b COMPARED TO SL/LAET AND ML/2LAET

ANALYTE	UNIT	SL/LAET	ML/2LAET	LDW-SC49V-9-10	LDW-SC49V-10-11	LDW-SC49V-11-12
Volatile organic compounds						
1,2,4-Trichlorobenzene	µg/kg dw	31	51	8.4 U	8.1 UJ	7.4 UJ
1,2-Dichlorobenzene	µg/kg dw	35	50	1.7 U	1.6 UJ	1.5 UJ
1,3-Dichlorobenzene	µg/kg dw	170	nv	1.7 U	1.6 UJ	1.5 UJ
1,4-Dichlorobenzene	µg/kg dw	110	120	1.7 U	1.6 UJ	1.5 UJ
Ethylbenzene	µg/kg dw	10	50	**240**	**360 J**	**27**
Hexachlorobutadiene	µg/kg dw	11	120	**13**	8.1 UJ	7.4 UJ
Naphthalene	µg/kg dw	2,100	2,400	18	26 J	7.4 UJ
Tetrachloroethene	µg/kg dw	57	210	1.7 U	1.6 U	1.5 U
Trichloroethene	µg/kg dw	160	1,600	1.7 U	12	6.5
Total Xylenes	µg/kg dw	40	160	**1,700**	**5,300 J**	**105 J**

NOTE: VOCs with SMS or DMMP criteria were not detected in the samples collected at depths above 9 ft.

A-11. RECOVERED DEPTHS, *IN SITU* DEPTHS, AND ASSIGNED SAMPLE INTERVALS FOR ANALYZED SAMPLES COLLECTED AT 1-FT AND 2-FT INTERVALS

LOCATION	SAMPLE ID	RECOVERED UPPER DEPTH (ft)	RECOVERED LOWER DEPTH (ft)	*IN SITU* UPPER DEPTH (ft)	*IN SITU* LOWER DEPTH (ft)	ASSIGNED SAMPLE INTERVAL[a] (ft)
LDW-SC1	LDW-SC1-0-2	0	2	0	2.1	0 - 2
	LDW-SC1-2-4	2	4	2.1	4.1	2 - 4
	LDW-SC1-4-6	4	6	4.1	6.6	> 4
LDW-SC2	LDW-SC2-0-2	0	2	0	2.4	0 - 2
	LDW-SC2-2-4	2	4	2.4	4.1	2 - 4
	LDW-SC2-4-6	4	6	4.1	6	> 4
	LDW-SC2-10.7-12	10.7	12	10.7	12	> 4
LDW-SC3	LDW-SC3-0-2	0	2	0	2.1	0 - 2
	LDW-SC3-2-4	2	4	2.1	4.1	2 - 4
LDW-SC4	LDW-SC4-0-1	0	1	0	1.1	0 - 1
	LDW-SC4-1-2	1	2	1.1	2.2	1 - 2
	LDW-SC4-2-4	2	4	2.2	4.2	2 - 4
	LDW-SC4-4-6	4	6	4.2	6.1	> 4
LDW-SC5	LDW-SC5-0-1	0	1	0	1.1	0 - 1
	LDW-SC5-1-2.2	1	2.2	1.1	2.4	1 - 2
	LDW-SC5-2.2-4	2.2	4	2.4	4.3	2 - 4
LDW-SC6	LDW-SC6-0-2	0	2	0	2.2	0 - 2
	LDW-SC6-2-4.5	2	4.5	2.2	4.8	2 - 4
	LDW-SC6-6-8	6	8	6.2	9.9	> 4
LDW-SC7	LDW-SC7-0-1	0	1	0	1	0 - 1
	LDW-SC7-1-1.7	1	1.7	1	1.8	1 - 2
	LDW-SC7-1.7-4	1.7	4	1.8	4.7	2 - 4
LDW-SC8	LDW-SC8-0-1	0	1	0	1.4	0 - 1
	LDW-SC8-1-2	1	2	1.4	2.4	1 - 2
	LDW-SC8-2-4	2	4	2.4	4.4	2 - 4
	LDW-SC8-4-6	4	6	4.4	7.9	> 4
	LDW-SC8-6-8	6	8	7.9	11.4	> 4
	LDW-SC8-8-10	8	10	11.4	14.6	> 4
LDW-SC9	LDW-SC9-0-1	0	1	0	1.3	0 - 1
	LDW-SC9-1-2.6	1	2.6	1.3	2.6	1 - 2
	LDW-SC9-2.6-4	2.6	4	2.6	3.7	2 - 4
LDW-SC10	LDW-SC10-0-1	0	1	0	1.1	0 - 1
	LDW-SC10-1-2	1	2	1.1	2	1 - 2
	LDW-SC10-2-4	2	4	2	4.1	2 - 4
	LDW-SC10-4-5	4	5	4.1	5.2	> 4
	LDW-SC10-6-8	6	8	6	8.8	> 4
LDW-SC11	LDW-SC11-0-0.8	0	0.8	0	0.9	0 - 1
	LDW-SC11-0.8-2	0.8	2	0.9	2.3	1 - 2
	LDW-SC11-2-3.4	2	3.4	2.3	4.1	2 - 4

Location	Sample ID	Recovered Upper Depth (ft)	Recovered Lower Depth (ft)	*In Situ* Upper Depth (ft)	*In Situ* Lower Depth (ft)	Assigned Sample Interval[a] (ft)
	LDW-SC11-3.4-4.1	3.4	4.1	4.1	4.9	2 - 4
LDW-SC12	LDW-SC12-0-2	0	2	0	2	0 - 2
	LDW-SC12-2-4	2	4	2	4.1	2 - 4
	LDW-SC12-4-6.7	4	6.6	4.1	6.9	> 4
	LDW-SC12-6.7-8.7	6.6	8.7	6.9	9.6	> 4
LDW-SC13	LDW-SC13-0-2	0	2	0	2.1	0 - 2
	LDW-SC13-2-4	2	4	2.1	4.2	2 - 4
LDW-SC14	LDW-SC14-0-1.4	0	1.4	0	1.4	0 - 1
	LDW-SC14-1.4-2	1.4	2	1.4	2	1 - 2
	LDW-SC14-2-4.1	2	4.1	2	4.1	2 - 4
	LDW-SC14-4.1-6	4.1	6	4.1	5.8	> 4
	LDW-SC14-6-8.7	6	8.6	5.8	8.8	> 4
	LDW-SC14-10-11	10	11	10.1	11.2	> 4
LDW-SC15	LDW-SC15-0-1	0	1	0	1.2	0 - 1
	LDW-SC15-1-2	1	2	1.2	2	1 - 2
	LDW-SC15-2-4	2	4	2	4.1	2 - 4
	LDW-SC15-4-6	4	6	4.1	7.1	> 4
	LDW-SC15-8-10	8	10	9.5	12.4	> 4
LDW-SC16	LDW-SC16-0-2	0	2	0	2.2	0 - 2
	LDW-SC16-2-4	2	4	2.2	4.1	2 - 4
	LDW-SC16-4-6	4	6	4.1	6.1	> 4
	LDW-SC16-8-10	8	10	9.6	11.3	> 4
LDW-SC17	LDW-SC17-0-1	0	1	0	1.5	0 - 1
	LDW-SC17-1-2	1	2	1.5	3	1 - 2
	LDW-SC17-2-4	2	4	3	6	2 - 4
	LDW-SC17-6-8.2	6	8.6	9.1	13	> 4
LDW-SC18	LDW-SC18-0-1	0	1	0	1.4	0 - 1
	LDW-SC18-1-2	1	2	1.4	2.5	1 - 2
	LDW-SC18-2-4	2	4	2.5	4.3	2 - 4
LDW-SC19	LDW-SC19-0-1	0	1	0	1.1	0 - 1
	LDW-SC19-1-2	1	2	1.1	2.1	1 - 2
	LDW-SC19-2-4	2	4	2.1	4.3	2 - 4
	LDW-SC19-4-6	4	6	4.3	6.4	> 4
	LDW-SC19-6-7	6	7	6.4	7.53	> 4
	LDW-SC19-9-11.9	9	11.9	9.68	13	> 4
LDW-SC20	LDW-SC20-0-2	0	2	0	2	0 - 2
	LDW-SC20-2-4	2	4	2	4	2 - 4
	LDW-SC20-4-6	4	6	4	6.9	> 4
	LDW-SC20-8-10	8	10	9.4	12.6	> 4
LDW-SC21	LDW-SC21-0-1	0	1	0	1.1	0 - 1
	LDW-SC21-1-2	1	2	1.1	2.1	1 - 2
	LDW-SC21-2-4	2	4	2.1	4	2 - 4

Location	Sample ID	Recovered Upper Depth (ft)	Recovered Lower Depth (ft)	*In Situ* Upper Depth (ft)	*In Situ* Lower Depth (ft)	Assigned Sample Interval[a] (ft)
	LDW-SC21-4-6.2	4	6.2	4	6.5	> 4
	LDW-SC21-10-11.3	10	11.3	10.4	12.7	> 4
LDW-SC22	LDW-SC22-0-1.1	0	1.1	0	1.3	0 - 1
	LDW-SC22-1.1-2	1.1	2	1.3	2.2	1 - 2
	LDW-SC22-2-4	2	4	2.2	4.2	2 - 4
LDW-SC23	LDW-SC23-0-2	0	2	0	2.1	0 - 2
	LDW-SC23-2-4	2	4	2.1	4.8	2 - 4
	LDW-SC23-4-6	4	6	4.8	6.4	> 4
	LDW-SC23-6-8	6	8	6.4	7.7	> 4
	LDW-SC23-8-10.2	8	10.2	7.7	11.9	> 4
LDW-SC24	LDW-SC24-0-1	0	1	0	1.3	0 - 1
	LDW-SC24-1-2	1	2	1.3	2.3	1 - 2
	LDW-SC24-2-4	2	4	2.3	4.2	2 - 4
LDW-SC25	LDW-SC25-0-1	0	1	0	1.5	0 - 1
	LDW-SC25-1-2	1	2	1.5	2.4	1 - 2
	LDW-SC25-2-4	2	4	2.4	4.4	2 - 4
	LDW-SC25-4-6	4	6	4.4	6.6	> 4
	LDW-SC25-8-9.1	8	9.1	9.3	10.3	> 4
LDW-SC26	LDW-SC26-0-1	0	1	0	1.2	0 - 1
	LDW-SC26-1-2	1	2	1.2	2.3	1 - 2
	LDW-SC26-2-4	2	4	2.3	4.2	2 - 4
	LDW-SC26-6-8	6	8	6.6	8.9	> 4
	LDW-SC26-11.1-12.1	11.1	12.1	12.9	14.6	> 4
LDW-SC27	LDW-SC27-0-2	0	2	0	2	0 - 2
	LDW-SC27-2-4.5	2	4.5	2	4.6	2 - 4
LDW-SC28	LDW-SC28-0-1	0	1	0	1	0 - 1
	LDW-SC28-1-2	1	2	1	2.1	1 - 2
	LDW-SC28-2-4	2	4	2.1	4.2	2 - 4
	LDW-SC28-5.5-7.5	5.5	7.5	5.8	7.86	> 4
	LDW-SC28-12-12.6	12	12.6	12.6	13	> 4
LDW-SC29	LDW-SC29-0-1	0	1	0	1	0 - 1
	LDW-SC29-1-2	1	2	1	2.1	1 - 2
	LDW-SC29-2-3.6	2	3.6	2.1	6.1	2 - 4
LDW-SC30	LDW-SC30-0-2.5	0	2.5	0	2.7	0 - 2
	LDW-SC30-2.5-4	2.5	4	2.7	4.2	2 - 4
LDW-SC31	LDW-SC31-0-1	0	1	0	1.4	0 - 1
	LDW-SC31-1-2.8	1	2.8	1.4	3	1 - 2
	LDW-SC31-2.8-4	2.8	4	3	4.2	2 - 4
LDW-SC32	LDW-SC32-0-1	0	1	0	1.2	0 - 1
	LDW-SC32-1-2	1	2	1.2	2.4	1 - 2
	LDW-SC32-2-4	2	4	2.4	4.3	2 - 4
	LDW-SC32-5.2-8	5.2	8	5.8	8	> 4

Location	Sample ID	Recovered Upper Depth (ft)	Recovered Lower Depth (ft)	*In Situ* Upper Depth (ft)	*In Situ* Lower Depth (ft)	Assigned Sample Interval[a] (ft)
LDW-SC33	LDW-SC33-0-2	0	2	0	2.3	0 - 2
	LDW-SC33-2-4	2	4	2.3	4.2	2 - 4
	LDW-SC33-4-6	4	6	4.2	7	> 4
	LDW-SC33-8-10	8	10	8.4	11.2	> 4
LDW-SC201[b]	LDW-SC201-0-1.5	0	1.5	0	1.7	0 - 2
	LDW-SC201-1.5-4	1.5	4	1.7	4	2 - 4
	LDW-SC201-4-6	4	6	4	7	> 4
	LDW-SC201-8-10	8	10	8	10.4	> 4
LDW-SC34	LDW-SC34-0-1	0	1	0	1.4	0 - 1
	LDW-SC34-1-2	1	2	1.4	2.5	1 - 2
	LDW-SC34-2-4	2	4	2.5	4.7	2 - 4
LDW-SC203[b]	LDW-SC203-0-1	0	1	0	1.6	0 - 1
	LDW-SC203-1-2	1	2	1.6	2.3	1 - 2
	LDW-SC203-2-4	2	4	2.3	4.1	2 - 4
	LDW-SC203-4-6	4	6	4.1	6.4	> 4
LDW-SC35	LDW-SC35-0-2	0	2	0	1.8	0 - 2
	LDW-SC35-2-4	2	4	1.8	3.8	2 - 4
LDW-SC36	LDW-SC36-0-1	0	1	0	1	0 - 1
	LDW-SC36-1-2	1	2	1	2.2	1 - 2
	LDW-SC36-2-4	2	4	2.2	4.6	2 - 4
LDW-SC202[b]	LDW-SC202-0-1	0	1	0	1	0 - 1
	LDW-SC202-1-2	1	2	1	2.3	1 - 2
	LDW-SC202-2-4	2	4	2.3	5.2	2 - 4
LDW-SC37	LDW-SC37-0-1	0	1	0	1.7	0 - 1
	LDW-SC37-1-2	1	2	1.7	2.6	1 - 2
	LDW-SC37-2-4	2	4	2.6	4.6	2 - 4
	LDW-SC37-5.3-6.9	5.3	6.9	6.3	8.6	> 4
LDW-SC38a	LDW-SC38-0-1	0	1	0	1.2	0 - 1
	LDW-SC38-1-2	1	2	1.2	2.5	1 - 2
	LDW-SC38-2-3	2	3	2.5	3.8	2 - 4
LDW-SC38b	LDW-SC38-3-3.3	3	3.3	3.8	4.59	2 - 4
LDW-SC39	LDW-SC39-0-1	0	1	0	2	0 - 1
	LDW-SC39-1-2	1	2	2	3.3	1 - 2
	LDW-SC39-2-4	2	4	3.3	4.3	2 - 4
	LDW-SC39-4-6	4	6	4.3	6.8	> 4
LDW-SC40	LDW-SC40-0-1.3	0	1.3	0	1.7	0 - 1
	LDW-SC40-1.3-2	1.3	2	1.7	2.6	1 - 2
	LDW-SC40-2-4	2	4	2.6	5.2	2 - 4
LDW-SC41	LDW-SC41-0-1	0	1	0	1.2	0 - 1
	LDW-SC41-1-2	1	2	1.2	2.2	1 - 2
	LDW-SC41-2-4	2	4	2.2	4.1	2 - 4
	LDW-SC41-4-6	4	6	4.1	6.7	> 4

Location	Sample ID	Recovered Upper Depth (ft)	Recovered Lower Depth (ft)	*In Situ* Upper Depth (ft)	*In Situ* Lower Depth (ft)	Assigned Sample Interval[a] (ft)
	LDW-SC41-6-7.9	6	7.9	6.7	11.6	> 4
LDW-SC42	LDW-SC42-0-1	0	1	0	1.3	0 - 1
	LDW-SC42-1-2	1	2	1.3	2.4	1 - 2
	LDW-SC42-2-4	2	4	2.4	4	2 - 4
LDW-SC43	LDW-SC43-0-2	0	2	0	2.4	0 - 2
	LDW-SC43-2-4	2	4	2.4	5.1	2 - 4
LDW-SC44	LDW-SC44-0-2	0	2	0	2.9	0 - 2
	LDW-SC44-2-3.2	2	3.2	2.9	4.8	2 - 4
	LDW-SC44-3.2-4	3.2	4	4.8	6.7	2 - 4
LDW-SC45	LDW-SC45-0-1	0	1	0	1	0 - 1
	LDW-SC45-1-2	1	2	1	2.1	1 - 2
	LDW-SC45-2-4	2	4	2.1	4.5	2 - 4
	LDW-SC45-5-6	5	6	5.5	6.9	> 4
LDW-SC46	LDW-SC46-0-1	0	1	0	1.2	0 - 1
	LDW-SC46-1-2	1	2	1.2	2.3	1 - 2
	LDW-SC46-2-4	2	4	2.3	4.6	2 - 4
	LDW-SC46-4-6.8	4	6.8	4.6	7.9	> 4
LDW-SC47	LDW-SC47-0-1	0	1	0	1.3	0 - 1
	LDW-SC47-1-2	1	2	1.3	2.5	1 - 2
	LDW-SC47-2-3	2	3	2.5	3.8	2 - 4
	LDW-SC47-3-4	3	4	3.8	5.1	2 - 4
LDW-SC48	LDW-SC48-0-1	0	1	0	1.1	0 - 1
	LDW-SC48-1-2	1	2	1.1	2.2	1 - 2
	LDW-SC48-2-4	2	4	2.2	4.2	2 - 4
LDW-SC49a	LDW-SC49-0-1	0	1	0	1.4	0 - 1
	LDW-SC49-1-2	1	2	1.4	2.5	1 - 2
	LDW-SC49-2-4	2	4	2.5	4.6	2 - 4
	LDW-SC49-4-6	4	6	4.6	6.8	> 4
	LDW-SC49-6-8	6	8	6.8	9	> 4
	LDW-SC49-8-10	8	10	9	11.7	> 4
LDW-SC50a	LDW-SC50-0-1	0	1	0	1.2	0 - 1
	LDW-SC50-1-2	1	2	1.2	2.7	1 - 2
	LDW-SC50-2-2.8	2	2.8	2.7	3.7	2 - 4
	LDW-SC50-2.8-4	2.8	4	3.7	5.3	2 - 4
LDW-SC51	LDW-SC51-0-2	0	2	0	2.7	0 - 2
	LDW-SC51-2-3.8	2	3.8	2.7	5	2 - 4
	LDW-SC51-3.8-5.8	3.8	5.8	5	10.6	> 4
LDW-SC52	LDW-SC52-0-1	0	1	0	1.5	0 - 1
	LDW-SC52-1-2	1	2	1.5	3	1 - 2
	LDW-SC52-2-4	2	4	3	6.2	2 - 4
LDW-SC53	LDW-SC53-0-2	0	2	0	2.8	0 - 2
	LDW-SC53-2-4	2	4	2.8	5.1	2 - 4

Location	Sample ID	Recovered Upper Depth (ft)	Recovered Lower Depth (ft)	*In Situ* Upper Depth (ft)	*In Situ* Lower Depth (ft)	Assigned Sample Interval[a] (ft)
LDW-SC54	LDW-SC54-0-2	0	2	0	2.4	0 - 2
	LDW-SC54-2-4	2	4	2.4	4.8	2 - 4
LDW-SC55	LDW-SC55-0-1	0	1	0	1.3	0 - 1
	LDW-SC55-1-2	1	2	1.3	2.7	1 - 2
	LDW-SC55-2-3	2	3	2.7	4	2 - 4
LDW-SC56	LDW-SC56-0-2	0	2	0	2.4	0 - 2
	LDW-SC56-2-4	2	4	2.4	5.8	2 - 4

[a] This assigned sample interval was used only for the purposes of summarizing data by depth in Section 4.1.1.

[b] This location is a field replicate of the location directly preceding it.

A-12. RECOVERED DEPTHS AND *IN SITU* DEPTHS FOR ANALYZED SAMPLES COLLECTED AT 0.5-FT INTERVALS

LOCATION	SAMPLE ID	RECOVERED UPPER DEPTH (ft)	RECOVERED LOWER DEPTH (ft)	*IN SITU* UPPER DEPTH (ft)	*IN SITU* LOWER DEPTH (ft)
LDW-SC1	LDW-SC1-0-0.5	0	0.5	0	0.5
	LDW-SC1-0.5-1	0.5	1	0.5	1
	LDW-SC1-1-1.5	1	1.5	1	1.6
	LDW-SC1-1.5-2	1.5	2	1.6	2.1
LDW-SC6	LDW-SC6-0-0.5	0	0.5	0	0.7
	LDW-SC6-0.5-1	0.5	1	0.7	1.1
	LDW-SC6-1-1.5	1	1.5	1.1	1.6
	LDW-SC6-1.5-2	1.5	2	1.6	2.2
	LDW-SC6-2-2.5	2	2.5	2.2	2.6
	LDW-SC6-2.5-3	2.5	3	2.6	3.2
	LDW-SC6-3-3.5	3	3.5	3.2	3.6
	LDW-SC6-3.5-4	3.5	4	3.6	4.1
	LDW-SC6-4-4.5	4	4.5	4.1	4.8
LDW-SC12	LDW-SC12-0-0.5	0	0.5	0	0.5
	LDW-SC12-0.5-1	0.5	1	0.5	1
	LDW-SC12-1-1.5	1	1.5	1	1.5
	LDW-SC12-1.5-2	1.5	2	1.5	2
	LDW-SC12-2-2.5	2	2.5	2	2.5
	LDW-SC12-2.5-3	2.5	3	2.5	3
	LDW-SC12-3-3.5	3	3.5	3	3.5
	LDW-SC12-3.5-4	3.5	4	3.5	4.1
LDW-SC13	LDW-SC13-0-0.5	0	0.5	0	0.7
	LDW-SC13-0.5-1	0.5	1	0.7	1.1
	LDW-SC13-1-1.5	1	1.5	1.1	1.6
	LDW-SC13-1.5-2	1.5	2	1.6	2.1
	LDW-SC13-2-2.5	2	2.5	2.1	2.6
	LDW-SC13-2.5-3	2.5	3	2.6	3.1
	LDW-SC13-3-3.5	3	3.5	3.1	3.5
LDW-SC23	LDW-SC23-0-0.5	0	0.5	0	0.5
	LDW-SC23-0.5-1	0.5	1	0.5	1.1
	LDW-SC23-1-1.5	1	1.5	1.1	1.6
	LDW-SC23-1.5-2	1.5	2	1.6	2.1
	LDW-SC23-2-2.5	2	2.5	2.1	2.6
	LDW-SC23-2.5-3	2.5	3	2.6	3.1
	LDW-SC23-3-3.5	3	3.5	3.1	3.5
	LDW-SC23-3.5-4	3.5	4	3.5	4.8
LDW-SC27	LDW-SC27-0-0.5	0	0.5	0	0.6
	LDW-SC27-0.5-1	0.5	1	0.6	1.1
	LDW-SC27-1-1.5	1	1.5	1.1	1.6
	LDW-SC27-1.5-2	1.5	2	1.6	2
	LDW-SC27-2-2.5	2	2.5	2	2.5
	LDW-SC27-2.5-3	2.5	3	2.5	3
	LDW-SC27-3-3.5	3	3.5	3	3.5

LOCATION	SAMPLE ID	RECOVERED UPPER DEPTH (ft)	RECOVERED LOWER DEPTH (ft)	*IN SITU* UPPER DEPTH (ft)	*IN SITU* LOWER DEPTH (ft)
	LDW-SC27-3.5-4	3.5	4	3.5	4.1
	LDW-SC27-4-4.5	4	4.5	4.1	4.6
LDW-SC33	LDW-SC33-0-0.5	0	0.5	0	1
	LDW-SC33-0.5-1	0.5	1	1	1.4
	LDW-SC33-1-1.5	1	1.5	1.4	1.9
	LDW-SC33-1.5-2	1.5	2	1.9	2.3
	LDW-SC33-2-2.5	2	2.5	2.3	2.9
	LDW-SC33-2.5-3	2.5	3	2.9	3.2
LDW-SC44	LDW-SC44-0-0.5	0	0.5	0	0.7
	LDW-SC44-0.5-1	0.5	1	0.7	1.4
	LDW-SC44-1-1.5	1	1.5	1.4	2.1
	LDW-SC44-1.5-2	1.5	2	2.1	2.9
	LDW-SC44-2-2.5	2	2.5	2.9	3.7
	LDW-SC44-2.5-3	2.5	3	3.7	4.5
	LDW-SC44-3-3.5	3	3.5	4.5	5.5
LDW-SC51	LDW-SC51-0-0.5	0	0.5	0	0.6
	LDW-SC51-0.5-1	0.5	1	0.6	1.3
	LDW-SC51-1-1.5	1	1.5	1.3	2
	LDW-SC51-1.5-2	1.5	2	2	2.7