

Appendix C
Supporting Data
2008 PLOO Stations
Sediment Characteristics

Appendix C.1

Constituents and method detection limits (MDL) for sediment samples analyzed for the PLOO monitoring program during 2008.

Parameter	MDL	Parameter	MDL
Sulfides-Total (ppm)	0.14	Total Solids (% wt)	0.24
Total Nitrogen (% wt)	0.005	Total Volatile Solids (% wt)	0.11
Total Organic Carbon (% wt)	0.01	Biochemical Oxygen Demand (ppm)	2
Metals (ppm)			
Aluminum (Al)	2	Lead (Pb)	0.8
Antimony (Sb)	0.3	Manganese (Mn)	0.08
Arsenic (As)	0.33	Mercury (Hg)	0.003
Barium (Ba)	0.02	Nickel (Ni)	0.1
Beryllium (Be)	0.01	Selenium (Se)	0.24
Cadmium (Cd)	0.06	Silver (Ag)	0.04
Chromium (Cr)	0.1	Thallium (Tl)	0.5
Copper (Cu)	0.2	Tin (Sn)	0.3
Iron (Fe)	9	Zinc (Zn)	0.2
Pesticides (ppt)			
Aldrin	700	Cis Nonachlor	700
Alpha Endosulfan	700	Gamma (trans) Chlordane	700
Beta Endosulfan	700	Heptachlor	700
Dieldrin	700	Heptachlor epoxide	700
Endosulfan Sulfate	700	Methoxychlor	700
Endrin	700	Oxychlordane	700
Endrin aldehyde	700	Trans Nonachlor	700
Hexachlorobenzene (HCB)	400	o,p-DDD	400
Mirex	700	o,p-DDE	700
BHC, Alpha isomer	400	o,p-DDT	700
BHC, Beta isomer	400	p,-p-DDMU	*
BHC, Delta isomer	400	p,p-DDD	700
BHC, Gamma isomer	400	p,p-DDE	400
Alpha (cis) Chlordane	700	p,p-DDT	700

* No MDL available for this parameter

Appendix C.1 *continued*

Parameter	MDL	Parameter	MDL
Polychlorinated Biphenyl Congeners (PCBs) (ppt)			
PCB 18	700	PCB 126	1500
PCB 28	700	PCB 128	700
PCB 37	700	PCB 138	700
PCB 44	700	PCB 149	700
PCB 49	700	PCB 151	700
PCB 52	700	PCB 153/168	700
PCB 66	700	PCB 156	700
PCB 70	700	PCB 157	700
PCB 74	700	PCB 158	700
PCB 77	700	PCB 167	700
PCB 81	700	PCB 169	700
PCB 87	700	PCB 170	700
PCB 99	700	PCB 177	700
PCB 101	700	PCB 180	400
PCB 105	700	PCB 183	700
PCB 110	700	PCB 187	700
PCB 114	700	PCB 189	400
PCB 118	700	PCB 194	700
PCB 119	700	PCB 201	700
PCB 123	700	PCB 206	700
Polycyclic Aromatic Hydrocarbons (PAHs) (ppb)			
1-methylnaphthalene	70	Benzo[K]fluoranthene	82
1-methylphenanthrene	41	Benzo[e]pyrene	57
2,3,5-trimethylnaphthalene	134	Biphenyl	89
2,6-dimethylnaphthalene	106	Chrysene	36
2-methylnaphthalene	102	Dibenzo(A,H)anthracene	32
3,4-benzo(B)fluoranthene	63	Fluoranthene	24
Acenaphthene	11	Fluorene	18
Acenaphthylene	11	Indeno(1,2,3-CD)pyrene	76
Anthracene	14	Naphthalene	21
Benzo[A]anthracene	34	Perylene	58
Benzo[A]pyrene	55	Phenanthrene	32
Benzo[G,H,I]perylene	56	Pyrene	35

Appendix C.2

Summary of the constituents that make up total DDT, total PCB, and total PAH in each sediment sample collected as part of PLOO monitoring program during 2008. nd=not detected; ns=not sampled.

Station	Class	Constituent	January	July	Units
B8	DDT	p,p-DDD	140	ns	ppt
B8	DDT	p,p-DDE	460	ns	ppt
B8	PCB	PCB 153/168	45	ns	ppt
B8	PAH	Naphthalene	17	ns	ppb
B9	DDT	p,p-DDD	200	nd	ppt
B9	DDT	p,p-DDE	460	210	ppt
B9	PAH	Biphenyl	8	nd	ppb
B10	DDT	p,p-DDE	300	ns	ppt
B10	PAH	Naphthalene	20	ns	ppb
B11	DDT	p,p-DDE	390	ns	ppt
B11	PAH	Biphenyl	7	ns	ppb
B12	DDT	p,p-DDE	445	210	ppt
B12	PAH	Naphthalene	13	nd	ppb
E1	PAH	Anthracene	20	ns	ppb
E1	PAH	Fluoranthene	35	ns	ppb
E1	PAH	Naphthalene	19	ns	ppb
E1	PAH	Phenanthrene	28	ns	ppb
E1	PAH	Pyrene	44	ns	ppb
E2	DDT	p,p-DDD	210	nd	ppt
E2	DDT	p,p-DDE	560	370	ppt
E2	DDT	p,p-DDT	nd	570	ppt
E2	PCB	PCB 105	88	nd	ppt
E2	PCB	PCB 110	220	nd	ppt
E2	PCB	PCB 138	nd	330	ppt
E2	PCB	PCB 149	nd	160	ppt
E2	PCB	PCB 149	300	nd	ppt
E2	PCB	PCB 153/168	180	nd	ppt
E2	PCB	PCB 180	69	nd	ppt
E2	PAH	Biphenyl	7	nd	ppb
E2	PAH	Pyrene	nd	42	ppb

Appendix C.2 *continued*

Station	Class	Constituent	January	July	Units
E3	DDT	p,p-DDE	310	ns	ppt
E3	PCB	PCB 105	200	ns	ppt
E3	PCB	PCB 110	600	ns	ppt
E3	PCB	PCB 118	510	ns	ppt
E3	PCB	PCB 123	25	ns	ppt
E3	PCB	PCB 128	120	ns	ppt
E3	PCB	PCB 138	600	ns	ppt
E3	PCB	PCB 149	690	ns	ppt
E3	PCB	PCB 151	280	ns	ppt
E3	PCB	PCB 153/168	380	ns	ppt
E3	PCB	PCB 156	64	ns	ppt
E3	PCB	PCB 170	250	ns	ppt
E3	PCB	PCB 177	360	ns	ppt
E3	PCB	PCB 180	840	ns	ppt
E3	PCB	PCB 183	280	ns	ppt
E3	PCB	PCB 187	750	ns	ppt
E3	PCB	PCB 194	640	ns	ppt
E3	PCB	PCB 201	970	ns	ppt
E3	PCB	PCB 206	730	ns	ppt
E3	PCB	PCB 49	200	ns	ppt
E3	PCB	PCB 52	190	ns	ppt
E3	PCB	PCB 70	190	ns	ppt
E3	PCB	PCB 99	290	ns	ppt
E3	PAH	1-methylphenanthrene	15	ns	ppb
E3	PAH	2-methylnaphthalene	2	ns	ppb
E3	PAH	3,4-benzo(B)fluoranthene	169	ns	ppb
E3	PAH	Benzo[A]anthracene	136	ns	ppb
E3	PAH	Benzo[K]fluoranthene	153	ns	ppb
E3	PAH	Chrysene	110	ns	ppb
E3	PAH	Fluoranthene	23	ns	ppb
E3	PAH	Naphthalene	16	ns	ppb
E3	PAH	Pyrene	66	ns	ppb
E5	DDT	p,p-DDE	150	nd	ppt
E5	DDT	p,p-DDT	nd	290	ppt
E5	PAH	Benzo[A]anthracene	47	nd	ppb
E5	PAH	Chrysene	76	nd	ppb
E5	PAH	Naphthalene	11	nd	ppb
E5	PAH	Pyrene	22	nd	ppb

Appendix C.2 *continued*

Station	Class	Constituent	January	July	Units
E7	DDT	p,p-DDE	290	ns	ppt
E7	PAH	1-methylnaphthalene	19	ns	ppb
E7	PAH	2-methylnaphthalene	22	ns	ppb
E7	PAH	Acenaphthene	6	ns	ppb
E7	PAH	Benzo[A]anthracene	33	ns	ppb
E7	PAH	Biphenyl	16	ns	ppb
E7	PAH	Chrysene	43	ns	ppb
E7	PAH	Fluoranthene	20	ns	ppb
E7	PAH	Naphthalene	59	ns	ppb
E7	PAH	Pyrene	28	ns	ppb
E8	DDT	p,p-DDE	270	nd	ppt
E8	DDT	p,p-DDE	170	nd	ppt
E8	PAH	Biphenyl	7	nd	ppb
E9	DDT	p,p-DDE	310	ns	ppt
E9	PCB	PCB 101	800	ns	ppt
E9	PCB	PCB 105	150	ns	ppt
E9	PCB	PCB 110	470	ns	ppt
E9	PCB	PCB 118	320	ns	ppt
E9	PCB	PCB 138	370	ns	ppt
E9	PCB	PCB 149	360	ns	ppt
E9	PCB	PCB 151	120	ns	ppt
E9	PCB	PCB 153/168	210	ns	ppt
E9	PCB	PCB 156	47	ns	ppt
E9	PCB	PCB 169	440	ns	ppt
E9	PCB	PCB 170	290	ns	ppt
E9	PCB	PCB 177	420	ns	ppt
E9	PCB	PCB 180	1100	ns	ppt
E9	PCB	PCB 183	350	ns	ppt
E9	PCB	PCB 187	1000	ns	ppt
E9	PCB	PCB 194	960	ns	ppt
E9	PCB	PCB 201	1500	ns	ppt
E9	PCB	PCB 206	1000	ns	ppt
E9	PCB	PCB 52	49	ns	ppt
E9	PAH	2-methylnaphthalene	5	ns	ppb
E9	PAH	Benzo[A]anthracene	37	ns	ppb
E9	PAH	Phenanthrene	15	ns	ppb
E9	PAH	Pyrene	28	ns	ppb

Appendix C.2 *continued*

Station	Class	Constituent	January	July	Units
E11	DDT	p,p-DDE	220	180	ppt
E14	DDT	p,p-DDE	230	330	ppt
E14	DDT	p,p-DDT	nd	87	ppt
E15	DDT	p,p-DDE	310	ns	ppt
E15	PCB	PCB 149	73	ns	ppt
E15	PCB	PCB 153/168	37	ns	ppt
E15	PAH	1-methylnaphthalene	11	ns	ppb
E15	PAH	1-methylphenanthrene	19	ns	ppb
E15	PAH	2-methylnaphthalene	10	ns	ppb
E15	PAH	Biphenyl	13	ns	ppb
E15	PAH	Naphthalene	35	ns	ppb
E17	DDT	p,p-DDE	240	300	ppt
E17	DDT	p,p-DDT	nd	270	ppt
E17	PAH	Biphenyl	6	nd	ppb
E19	DDT	p,p-DDE	370	ns	ppt
E19	PCB	PCB 149	200	ns	ppt
E19	PCB	PCB 153/168	63	ns	ppt
E19	PCB	PCB 180	48	ns	ppt
E19	PAH	Fluoranthene	11	ns	ppb
E20	DDT	p,p-DDE	340	260	ppt
E20	PAH	Biphenyl	9	nd	ppb
E20	PAH	Naphthalene	12	nd	ppb
E21	DDT	p,p-DDE	405	ns	ppt
E23	DDT	p,p-DDE	370	260	ppt
E23	DDT	p,p-DDT	nd	200	ppt
E23	PAH	Biphenyl	9	nd	ppb
E23	PAH	Naphthalene	23	nd	ppb
E25	DDT	p,p-DDE	330	280	ppt
E25	DDT	p,p-DDT	nd	130	ppt
E25	PAH	Biphenyl	8	nd	ppb
E26	DDT	p,p-DDE	320	210	ppt
E26	DDT	p,p-DDT	nd	95	ppt

Appendix C.3

PLOO sediment statistics for the January 2008 survey.

	Depth (m)	Mean (mm)	SD (phi)	Median (phi)	Skewness (phi)	Kurtosis (phi)	Coarse (%)	Sand (%)	Silt (%)	Clay (%)	Fines (%)	Visual Observations
<i>North reference stations</i>												
	B8	0.043	4.5	1.5	4.2	0.4	0.9	0.0	44.0	52.6	3.4	56.0
	B11	0.053	4.2	2.0	3.8	0.3	0.9	3.8	49.9	42.5	3.8	46.3
	B9	0.052	4.3	1.6	3.7	0.5	1.0	0.0	57.5	39.6	2.9	42.5
	B12	0.065	3.9	1.8	3.2	0.5	0.9	0.0	65.5	31.8	2.7	34.5
	B10	0.071	3.8	1.6	3.3	0.5	1.3	0.0	71.6	26.1	2.3	28.4
<i>Stations north of the outfall</i>												
	E19	0.051	4.3	1.5	3.9	0.4	1.1	0.0	54.4	42.9	2.7	45.6
	E20	0.060	4.1	1.4	3.6	0.5	1.2	0.0	63.3	34.3	2.4	36.7
	E23	0.060	4.1	1.4	3.7	0.4	1.2	0.0	61.4	36.1	2.5	38.6
	E25	0.064	4.0	1.4	3.6	0.5	1.2	0.0	64.2	33.3	2.4	35.8
	E26	0.051	4.3	1.5	3.8	0.5	1.0	0.0	56.2	40.8	3.0	43.8
	E21	0.064	4.0	1.4	3.5	0.5	1.3	0.0	66.2	31.7	2.1	33.8
<i>Nearfield stations</i>												
	E11	0.069	3.9	1.3	3.5	0.5	1.4	0.0	68.0	29.9	2.1	32.0
	E14	0.067	3.9	1.4	3.5	0.5	1.3	0.0	69.5	28.5	1.9	30.4
	E17	0.067	3.9	1.4	3.5	0.5	1.3	0.0	67.3	30.9	1.8	32.7
	E15	0.062	4.0	1.5	3.4	0.6	1.3	0.0	67.4	29.5	3.1	32.6
<i>Stations south of the outfall</i>												
	E1	0.055	4.2	1.7	3.8	0.4	0.9	1.4	55.0	40.3	3.3	43.6
	E7	0.056	4.2	1.5	3.8	0.4	1.1	0.0	58.2	39.6	2.2	41.8
	E2	0.123	3.0	1.8	4.0	-0.8	0.9	10.8	34.6	54.5	0.0	54.5
	E5	0.068	3.9	1.4	3.5	0.5	1.2	0.0	66.6	31.4	2.0	33.4
	E8	0.066	3.9	1.4	3.6	0.4	1.2	0.0	66.3	31.5	2.1	33.6
	E3	0.066	3.9	1.9	3.2	0.5	0.9	2.2	60.2	34.2	3.4	37.6
	E9	0.054	4.2	1.7	3.6	0.5	1.0	0.0	60.2	36.1	3.7	39.8
												Coarse black sand, shell hash

Appendix C.3 *continued*

PLOO sediment statistics for the July 2008 survey. ns=not sampled.

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Appendix C.4

Summary of organic loading indicators at PLOO benthic stations for the January (A) and July (B) 2008 surveys. nd=not detected; ns=not sampled.

A	BOD (ppm)	Sulfides (ppm)	TN (% wt)	TOC (% wt)	TVS (% wt)	B	BOD (ppm)	Sulfides (ppm)	TN (% wt)	TOC (% wt)	TVS (% wt)
<i>North reference stations</i>						<i>North reference stations</i>					
B8	287	3.40	0.077	0.85	2.92	B8	ns	ns	ns	ns	ns
B11	376	1.63	0.078	3.51	4.14	B11	ns	ns	ns	ns	ns
B9	312	0.18	0.059	0.86	2.83	B9	194	nd	0.061	0.99	2.91
B12	296	0.34	0.060	4.11	3.24	B12	240	nd	0.049	3.86	3.23
B10	314	2.52	0.056	2.32	2.77	B10	ns	ns	ns	ns	ns
<i>Stations north of the outfall</i>						<i>Stations north of the outfall</i>					
E19	214	2.97	0.063	0.71	2.33	E19	ns	ns	ns	ns	ns
E20	209	0.37	0.053	0.64	1.92	E20	177	7.54	0.053	0.60	2.25
E23	231	5.78	0.060	0.68	2.20	E23	178	1.07	0.061	0.69	2.41
E25	208	nd	0.056	0.68	2.16	E25	151	0.63	0.056	0.76	2.32
E26	221	5.89	0.066	0.76	2.67	E26	181	nd	0.064	0.72	2.38
E21	227	0.68	0.053	0.61	2.10	E21	ns	ns	ns	ns	ns
<i>Nearfield stations</i>						<i>Nearfield stations</i>					
E11	391	29.60	0.045	0.72	2.01	E11	118	3.44	0.049	0.65	2.74
E14	469	14.90	0.045	0.68	1.98	E14	175	1.58	0.042	0.63	1.85
E17	299	0.50	0.050	0.57	1.81	E17	204	10.60	0.048	0.53	1.82
E15	467	0.72	0.056	0.79	2.32	E15	ns	ns	ns	ns	ns
<i>Stations south of the outfall</i>						<i>Stations south of the outfall</i>					
E1	254	1.91	0.039	0.45	2.34	E1	ns	ns	ns	ns	ns
E7	249	0.31	0.054	0.59	2.08	E7	ns	ns	ns	ns	ns
E2	296	0.71	0.032	0.62	2.57	E2	166	0.92	0.049	0.76	2.75
E5	202	0.21	0.041	0.65	1.72	E5	93	0.86	0.045	0.62	1.89
E8	246	1.28	0.042	0.61	2.09	E8	129	0.98	0.044	0.61	1.85
E3	169	7.37	0.028	0.48	2.19	E3	ns	ns	ns	ns	ns
E9	239	1.64	0.062	1.81	2.59	E9	ns	ns	ns	ns	ns

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Appendix C.5

Concentrations of trace metals (ppm) for the January 2008 PLOO survey. ERL=effects range low threshold value; ERM=effects range median threshold value; na=not available; nd=not detected. Values that exceed ERL or ERM threshold values are in bold.

	Al	Sb	As	Ba	Be	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Ni	Se	Ag	Ti	Sn	Zn
<i>North reference stations</i>																		
B8	11000	1.2	3.94	52.9	nd	0.13	23.4	7.3	17100	4.7	150.0	0.035	11.3	nd	3.38	1.1	2.3	36.4
B11	11400	1.6	4.64	46.0	nd	0.20	26.4	5.1	21500	4.7	163.0	0.033	10.9	0.35	1.27	nd	1.6	41.4
B9	9030	1.3	3.30	101.0	nd	0.12	24.7	4.1	18000	3.5	128.0	0.029	9.7	nd	1.79	nd	2.2	35.3
B12	7590	1.3	5.28	25.0	nd	0.19	27.8	1.3	23500	3.4	86.0	0.017	7.6	nd	nd	nd	2.0	36.2
B10	6740	0.9	3.31	25.1	nd	0.14	20.2	3.1	15500	3.1	80.4	0.017	6.6	0.28	nd	nd	1.9	29.2
<i>Stations north of the outfall</i>																		
E19	13100	0.9	3.27	52.1	nd	0.17	22.4	6.7	15500	4.1	151.0	0.034	10.9	nd	2.17	1.1	2.5	35.9
E20	9250	0.8	3.26	34.1	nd	0.11	16.5	4.3	11600	2.3	108.0	0.022	8.0	nd	2.04	0.5	2.2	25.8
E23	9900	1.2	3.00	40.2	nd	0.19	18.6	5.9	13000	3.1	121.0	0.025	9.2	nd	3.01	0.8	2.0	28.3
E25	8400	1.1	3.31	34.7	nd	0.17	16.8	4.6	11700	3.1	106.0	0.024	8.1	0.29	1.97	nd	2.0	25.4
E26	9300	0.9	3.01	42.4	nd	0.19	19.7	5.7	14000	3.6	129.0	0.030	9.7	nd	3.31	0.6	2.1	30.5
E21	8050	0.9	2.68	30.3	nd	0.16	16.3	4.6	11000	2.9	98.7	0.026	7.8	0.12	2.05	nd	2.2	24.0
<i>Nearfield stations</i>																		
E11	8880	0.8	3.43	28.4	nd	0.14	15.5	3.5	11000	1.8	104.0	0.017	7.4	nd	2.85	0.7	3.0	25.2
E14	7960	0.8	3.03	29.7	nd	0.19	15.0	4.6	10500	2.1	98.8	0.018	7.2	nd	0.67	1.1	2.2	25.8
E17	8640	0.5	3.48	30.6	nd	0.15	15.7	6.0	11300	2.4	99.1	0.018	7.5	nd	0.91	0.7	2.0	25.9
E15	9330	0.7	2.87	32.1	nd	0.14	18.0	5.1	12300	3.1	106.0	0.027	8.2	0.25	1.83	nd	2.4	28.4
<i>Stations south of the outfall</i>																		
E1	9750	0.4	3.15	41.5	nd	nd	15.6	5.9	12000	3.4	85.0	0.038	6.1	nd	2.73	nd	2.0	27.2
E7	10700	1.0	2.85	39.7	nd	0.21	17.4	5.2	12500	3.2	118.0	0.031	8.3	0.30	1.15	0.7	2.2	29.2
E2	12100	1.0	2.30	54.0	nd	nd	16.6	9.7	15900	2.6	105.0	0.044	6.7	0.30	3.24	nd	2.0	34.1
E5	10500	0.9	1.84	37.8	nd	0.08	16.7	4.4	12000	2.4	112.0	0.019	7.3	nd	2.90	0.4	1.6	27.9
E8	9020	0.9	2.63	32.3	nd	0.11	15.7	4.2	11100	2.5	105.0	0.021	6.9	nd	2.76	0.7	2.2	27.0
E3	10600	0.7	2.45	54.5	nd	nd	14.8	12.7	13600	3.8	97.0	0.045	5.6	nd	2.95	nd	1.9	37.9
E9	9240	0.8	2.66	31.3	nd	0.13	20.6	7.2	14200	4.3	101.0	0.059	7.7	nd	1.32	nd	2.2	38.4
ERL	na	na	8.2	na	na	1.20	81	34	na	46.7	na	0.15	20.9	na	1	na	na	150
ERM	na	na	70	na	na	9.6	370	270	na	218	na	0.71	51.6	na	3.7	na	na	410

Appendix C.5 *continued*

Concentrations of trace metals (ppm) for the July 2008 PLOO survey. ERL=effects range low threshold value; ERM=effects range median threshold value; na=not available; nd=not detected; ns=not sampled. Values that exceed ERL or ERM threshold values are in bold.

	Al	Sb	As	Ba	Be	Cd	Cr	Cu	Fe	Pb	Mn	Hg	Ni	Se	Ag	Tl	Sn	Zn
<i>North reference stations</i>																		
B8	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
B11	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
B9	9090	nd	4.75	59.2	nd	0.13	24.3	5.9	18800	3.7	98.2	0.034	8.1	nd	1.18	nd	1.0	40.8
B12	7960	nd	5.13	26.7	nd	0.17	25.8	4.3	22500	5.4	66.5	0.017	6.7	nd	0.09	nd	0.9	41.1
B10	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
<i>Stations north of the outfall</i>																		
E19	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
E20	8940	nd	2.83	41.0	nd	0.17	16.9	7.7	11300	3.2	93.6	0.037	7.9	nd	1.50	nd	1.1	30.3
E23	10200	nd	3.20	42.0	nd	0.14	17.8	7.3	12300	3.5	101.0	0.039	8.4	nd	1.71	nd	1.1	32.9
E25	9650	nd	3.28	36.9	nd	0.11	16.6	6.4	11500	3.3	94.3	0.036	7.6	nd	1.67	nd	1.1	29.9
E26	9980	nd	3.37	40.0	nd	0.11	17.5	7.2	11900	3.8	98.2	0.044	8.2	nd	1.51	nd	1.1	32.1
E21	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
<i>Nearfield stations</i>																		
E11	7050	nd	3.32	28.0	nd	0.13	13.4	5.6	9400	2.4	72.5	0.016	6.0	nd	0.72	nd	0.8	25.7
E14	6620	nd	2.68	28.4	nd	0.15	13.1	5.5	8590	2.1	67.7	0.026	6.0	0.24	0.84	nd	0.8	22.8
E17	8510	nd	3.47	33.7	nd	0.20	15.7	6.4	10700	2.9	85.8	0.036	7.1	nd	1.40	nd	1.1	28.3
E15	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
<i>Stations south of the outfall</i>																		
E1	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
E7	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
E2	10000	nd	3.40	50.6	nd	0.12	17.6	14.3	13800	5.3	100.0	0.046	7.5	nd	1.64	nd	1.2	39.1
E5	10600	nd	2.97	49.3	nd	0.10	17.6	11.1	13800	5.0	100.0	0.023	7.5	nd	1.78	nd	1.2	38.0
E8	6930	nd	3.01	32.5	nd	0.13	14.5	6.5	10000	2.9	76.1	0.023	6.4	nd	0.80	nd	0.8	26.8
E3	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
E9	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns	ns
ERL	na	na	8.2	na	na	1.20	81	34	na	46.7	na	0.15	20.9	na	1	na	na	150
ERM	na	na	70	na	na	9.6	370	270	na	218	na	0.71	51.6	na	3.7	na	na	410

Appendix C.6

Concentrations of pesticides, total PCB, and total PAH detected at each PLOO benthic station during the January (A) and July (B) 2008 surveys. ERL=effects range low threshold value; ERM=effects range median threshold value; na=not available; nd=not detected; ns=not sampled.

A	Dieldrin (ppt)	tDDT (ppt)	HCB (ppt)	tPCB (ppt)	tPAH (ppb)	B	Dieldrin (ppt)	tDDT (ppt)	HCB (ppt)	tPCB (ppt)	tPAH (ppb)
<i>North reference stations</i>						<i>North reference stations</i>					
B8	nd	600	910	45	17	B8	ns	ns	ns	ns	ns
B11	nd	390	nd	nd	7	B11	ns	ns	ns	ns	ns
B9	nd	660	nd	nd	8	B9	nd	210	140	nd	nd
B12	nd	445	nd	nd	13	B12	nd	210	nd	nd	nd
B10	nd	300	nd	nd	20	B10	ns	ns	ns	ns	ns
<i>Stations north of the outfall</i>						<i>Stations north of the outfall</i>					
E19	nd	370	nd	311	11	E19	ns	ns	ns	ns	ns
E20	nd	340	nd	nd	20	E20	nd	260	230	nd	nd
E23	nd	370	nd	nd	32	E23	nd	460	nd	nd	nd
E25	nd	330	320	nd	8	E25	nd	410	230	nd	nd
E26	nd	320	970	nd	nd	E26	nd	305	99	nd	nd
E21	nd	405	280	nd	nd	E21	ns	ns	ns	ns	ns
<i>Nearfield stations</i>						<i>Nearfield stations</i>					
E11	nd	220	nd	nd	nd	E11	nd	180	nd	nd	nd
E14	nd	230	nd	nd	nd	E14	nd	417	950	nd	nd
E17	nd	240	nd	nd	6	E17	nd	570	1900	nd	nd
E15	nd	310	nd	110	89	E15	ns	ns	ns	ns	ns
<i>Stations south of the outfall</i>						<i>Stations south of the outfall</i>					
E1	nd	nd	nd	nd	147	E1	ns	ns	ns	ns	ns
E7	nd	290	86	nd	246	E7	ns	ns	ns	ns	ns
E2	nd	1340	nd	857	7	E2	nd	370	130	490	42
E5	270	290	nd	nd	155	E5	nd	150	120	nd	nd
E8	nd	270	540	nd	7	E8	nd	170	nd	nd	nd
E3	nd	310	nd	9159	689	E3	ns	ns	ns	ns	ns
E9	nd	310	670	9956	84	E9	ns	ns	ns	ns	ns
ERL	na	1580	na	na	4022	ERL	na	1580	na	na	4022
ERM	na	46100	na	na	44792	ERM	na	46100	na	na	44792

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