Appendix A to "Annual review of toxic contaminants discharged by MWRA: 1993"

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Appendix A

Chemistry Data from Fish and Shellfish and Sediment Monitoring

Abbreviations for Organic Compounds

Polycyclic Aromatic Hydrocarbons

N	naphthalene
N1	C_1-naphthalenes
N2	C_2-naphthalenes
N3	C_3-naphthalenes
N4	C_4-naphthalenes
BI	biphenyl
AE	acenaphthylene
AC	acenaphthene
F	fluorene
F1	C_1-fluorenes
F2	C_2-fluorenes
F3	C_3-fluorenes
P	phenanthrene
A	anthracene
P1	C_1-phenanthrenes/anthracenes
P2	C_2-phenanthrenes/anthracenes
P3	C_3-phenanthrenes/anthracenes
P4	C_4-phenanthrenes/anthracenes
D	dibenzothiophene
D1	C_1-dibenzothiophenes
D2	C_2-dibenzothiophenes
D3	C_3-dibenzothiophenes
FL	fluoranthene
PY	pyrene
FP1	C_1-fluoranthenes/pyrenes
B	benz[*a*]anthracene
C	chrysene
C1	C_1-chrysenes
C2	C_2-chrysenes
C3	C_3-chrysenes
C4	C_4-chrysenes
BB	benzo[*b*]fluoranthene
BK	benzo[*k*]fluoranthene
BE	benzo[*e*]pyrene
BA	benzo[*a*]pyrene
PER	perylene
IP	indeno[1,2,3-*c*,*d*]pyrene
DA	dibenz[*a*,*h*]anthracene
BP	benzo[*g*,*h*,*i*]perylene

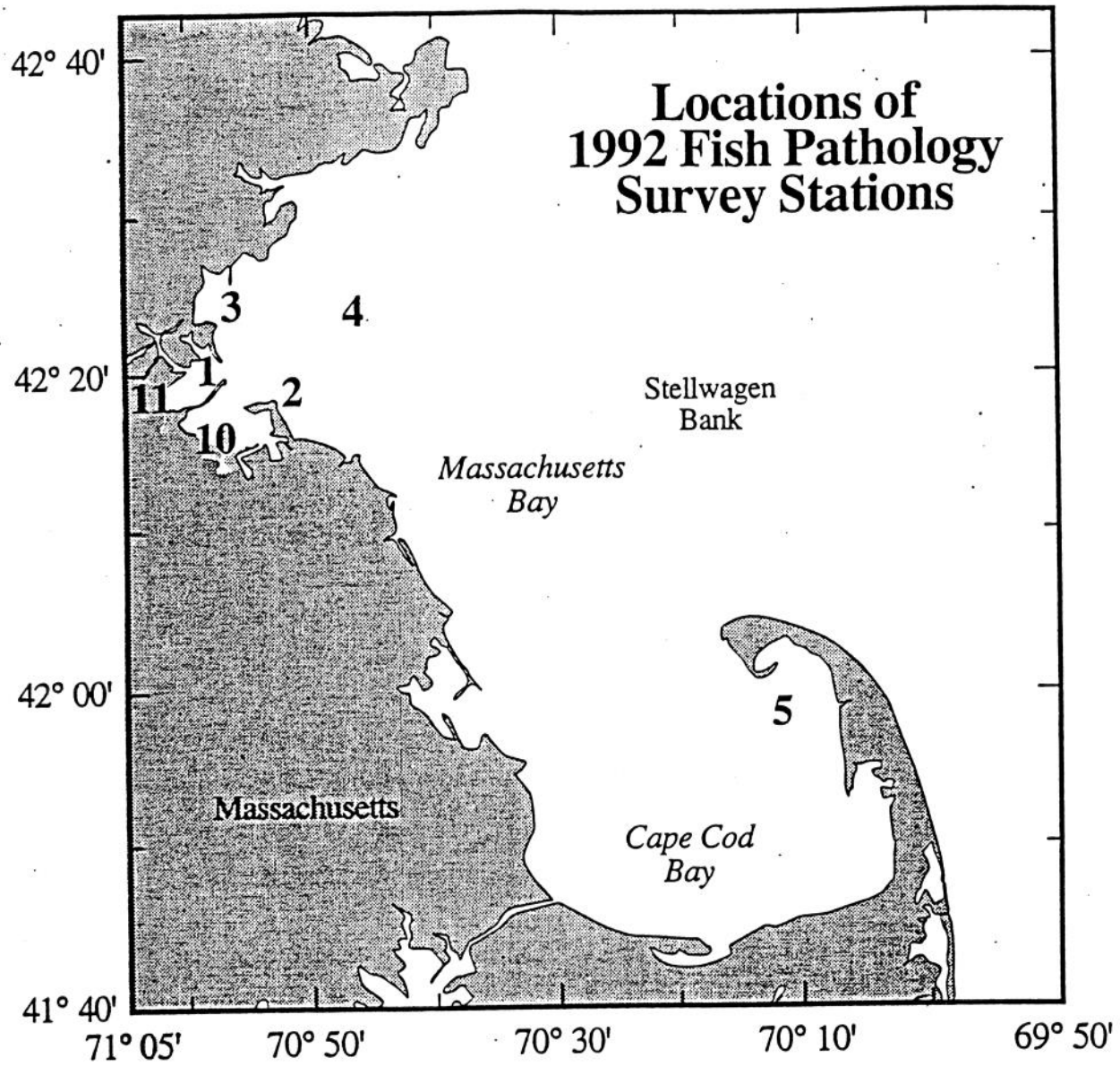
Pesticides

HCB	hexachlorobenzene
LI	lindane
HP	heptachlor
AL	aldrin
HPX	heptachlorepoxide
24E	2,4 - DDE
CC	*cis*-chlordane
TNC	*trans*-nonachlor
D	dieldrin
44E	4,4' - DDE
24D	2,4 - DDD
E	endrin
44D	4,4' - DDD
24T	2,4 - DDT
44T	4,4' - DDT
MX	mirex

Polychlorinated Biphenyls (PCBs)

08	2,4'-Cl_2(8)
18	2,2'5-Cl_3(18)
28	2,4,4'-Cl_3(28)
52	2,2'5,5'-Cl_4(52)
44	2,2'3,5'-Cl_4(44)
66	2,3'4,4'-Cl_4(66)
101	2,2'4,5,5'-Cl_5(101)
77	3,3'4,4'-Cl_4(77)
118	2,3',4,5',5-Cl_5(118)
153	2,2',4,4',5,5'-Cl_6(153)
105	2,3,3',4,4'-Cl_5(105)
138	2,2'3,4,4'5'-Cl_6(138)
126	3,3',4,4',5-Cl_5(126)
187	2,2',3,4',5,5',6-Cl_7(187)
128	2,2',3,3',4,4',-Cl_6(128)
180	2,2',3,4,4',5,5',-Cl_7(180)
170	2,2',3,3',4,4',5-Cl_7(170)
195	2,2'3,3',4,4',5,6-Cl_8(195)
206	2,2',3,3',4,4',5,5',6-Cl_9(206)
209	decachlorobiphenyl-Cl_{10}(209)

Chemistry Data from Fish and Shellfish Monitoring



Key: **Site 1 - Deer Island Flats (DI)**
Site 2 - Off Nantasket Beach (NB)
Site 3 - Broad Sound (BS)
Site 4 - Future Outfall Site (FOS)
Site 5 - Eastern Cape Cod Bay (CCB)

Location of fish and lobster sampling sites in 1992. Lobster were sampled at sites 1, 4, and 5 only. Sites 10 and 11 were flounder pathology only.

Results of Flounder Liver Analysis for PAH (ng/g - dry weight)

Sample Location:	BS	BS	BS	NB	NB	NB	DI	DI	DI	FOS	FOS	FOS	FOS	CCB	CCB	CCB
Sample ID:	LV22	LV23	LV24	LV25	LV26	LV27	LV28	LV29	LV30	LV31	LV32	LV33R-1	LV33R-2	LV34	LV35	LV36
Sample Dry weight (g):	0.331	0.419	0.160	0.263	0.162	0.305	0.237	0.617	0.113	0.800	0.575	0.370	0.513	0.276	0.357	0.520
naphthalene	3955.14	1561.12	9364.63	2273.88	8945.74	4123.08	2276.20	2221.44	12178.14	82.86	879.23	3620.24	2676.14	4627.03	2716.11	2414.33
C1-naphthalenes	1417.55	554.68	3200.31	848.25	3235.12	1515.74	805.36	825.53	4364.87	49.74	320.40	1283.65	954.35	1666.99	978.46	896.31
C2-naphthalenes	1292.51	567.33	3317.75	893.08	3206.36	1482.13	861.27	875.49	4308.41	52.20	319.70	1270.62	929.82	1676.99	956.58	875.75
C3-naphthalenes	955.05	470.91	2306.44	729.96	2318.95	1087.44	703.08	692.95	3248.32	40.80	279.97	889.11	694.68	1308.01	675.74	613.92
biphenyl	828.01	453.63	1922.94	671.41	1889.32	889.11	636.92	475.58	2636.64	28.21	262.63	753.81	555.89	992.25	590.00	529.94
acenaphthylene	23.26	6.87	45.56	13.95	48.77	20.00	7.64	11.56	47.79	ND	4.61	16.43	12.73	25.54	12.27	10.85
acenaphthene	66.92	28.74	143.38	37.83	161.42	63.28	32.28	36.08	201.42	ND	13.10	58.76	42.22	80.43	42.58	41.50
dibenzofuran	205.56	126.85	467.19	182.17	451.30	200.16	175.86	113.06	622.74	6.65	72.30	180.81	132.14	223.66	138.10	126.46
fluorene	15.08	8.23	ND	12.74	35.74	11.48	9.03	12.06	32.83	ND	5.44	8.92	6.73	13.15	9.24	9.29
C1-fluorenes	51.45	56.01	136.94	76.58	170.00	56.49	67.34	39.38	159.56	12.88	33.13	47.16	32.11	78.84	48.26	34.63
C2-fluorenes	217.22	130.12	596.81	197.26	544.07	258.56	201.65	148.87	730.27	ND	68.47	225.43	177.39	344.20	189.22	159.65
C3-fluorenes	ND	ND	727.75	ND	615.37	283.93	ND	249.16	978.50	ND	169.90	309.00	191.52	402.32	248.07	212.73
phenanthrene	514.38	248.97	1198.56	350.19	1145.19	518.33	348.86	283.78	1629.82	15.40	140.68	479.38	349.43	643.33	371.09	316.25
anthracene	19.79	3.75	29.19	7.83	42.96	18.36	10.51	11.93	54.60	1.16	4.05	21.46	13.88	20.83	13.22	11.31
C1-phenanthrenes/anthracene	335.56	147.66	737.69	180.99	698.52	317.38	184.60	178.12	995.13	19.33	73.17	297.81	212.90	402.50	225.32	204.96
C2-phenanthrenes/anthracene	288.43	116.37	648.94	191.10	657.47	278.95	140.59	149.22	862.57	ND	86.89	264.49	176.32	371.16	171.37	158.37
C3-phenanthrenes/anthracene	206.10	223.94	347.13	ND	399.26	178.23	188.86	104.44	514.87	67.18	99.01	142.14	119.88	157.10	91.76	85.29
C4-phenanthrenes/anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
dibenzothiophene	48.28	23.56	114.87	33.95	107.90	48.59	34.01	27.68	147.70	5.54	13.91	45.68	34.41	60.40	36.50	30.44
C1-dibenzothiophenes	110.24	45.23	221.63	76.43	188.33	93.38	65.78	51.70	275.84	16.16	29.20	76.27	54.93	123.04	68.07	62.21
C2-dibenzothiophenes	127.43	51.62	283.38	94.03	280.31	123.44	95.61	72.80	367.26	19.06	39.51	119.57	85.20	162.72	96.83	84.13
C3-dibenzothiophenes	105.08	ND	226.38	ND	219.57	98.23	ND	61.36	296.64	ND	32.02	79.84	53.31	156.70	77.51	63.31
fluoranthene	56.65	25.49	129.19	33.08	127.47	54.20	36.54	32.07	170.80	2.54	14.82	50.11	37.17	63.77	40.56	33.17
pyrene	61.78	20.31	123.69	29.96	123.58	54.20	29.54	28.46	160.27	2.68	13.30	47.97	34.95	64.82	38.15	31.50
C1-fluoranthenes/pyrenes	35.41	30.05	108.13	22.78	95.68	42.72	33.21	24.10	117.88	ND	15.55	37.76	23.80	52.57	ND	24.31
benz[a]anthracene	26.68	13.01	64.25	19.54	57.47	25.31	24.77	13.23	73.27	5.29	11.29	23.62	16.69	33.99	22.02	16.38
chrysene	29.82	14.51	64.06	16.27	60.25	31.41	14.30	15.36	88.85	1.78	9.55	26.16	19.08	38.30	22.16	18.27
C1-chrysenes	29.30	19.95	94.68	17.48	79.71	34.96	19.64	20.27	115.51	ND	11.37	34.90	26.62	49.02	27.87	24.40
C2-chrysenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C3-chrysenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
C4-chrysenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
benzo[b]fluoranthene	56.98	ND	74.31	28.17	72.10	32.36	ND	25.87	111.42	ND	19.50	35.27	25.38	48.66	31.99	26.08
benzo[k]fluoranthene	16.13	ND	25.12	6.24	24.20	7.51	ND	5.80	25.93	ND	4.14	6.81	5.17	10.58	6.58	4.83
benzo[e]pyrene	43.66	11.74	35.31	13.27	35.62	17.57	19.11	8.27	56.99	ND	8.73	16.27	9.08	20.47	15.71	12.67
benzo[a]pyrene	21.99	ND	27.19	5.97	23.89	10.85	8.27	4.41	38.05	ND	4.54	11.46	5.91	11.67	9.58	8.27
perylene	35.47	ND	9.69	4.68	10.56	4.36	3.45	439.35	36.55	1.59	2.99	5.27	2.34	6.52	7.42	3.65
indeno[1,2,3-c,d]pyrene	44.86	12.79	40.50	18.52	45.19	23.11	22.07	10.53	72.48	2.19	14.80	21.00	13.39	25.18	25.97	18.96
dibenz[a,h]anthracene	12.27	3.27	10.56	6.35	14.14	5.93	11.94	4.13	21.15	3.18	5.37	5.78	3.59	10.47	6.47	5.04
benzo[g,h,i]perylene	145.71	23.17	47.50	24.68	53.58	33.38	37.72	17.54	99.73	5.60	18.24	29.54	17.27	41.96	33.64	27.85
Surrogate Recoveries (%):																
naphthalene-d8	53	53	57	56	55	55	56	55	57	54	51	56	54	50	53	53
acenaphthene-d10	60	65	67	68	64	65	67	67	67	64	63	66	65	60	64	65
benzo[a]pyrene-d12	83	91	95	96	87	85	97	98	100	103	101	100	95	95	98	93

ND = Not Detected

Results of Flounder Liver Composite Analysis for PAH (ng/g - dry weight)

Sample Location:	BS	BS	NB	DI	FOS	CCB
Sample ID:	LV17REP1	LV17REP2	LV18	LV19	LV20	LV21
Sample Dry Weight (g):	1.551	1.587	1.606	3.775	1.770	1.055
naphthalene	696.18	565.37	647.37	354.56	559.31	791.36
C1-naphthalenes	344.55	263.85	308.44	199.39	251.14	347.95
C2-naphthalenes	331.55	253.73	308.23	267.06	249.84	339.32
C3-naphthalenes	239.37	176.09	181.40	161.14	165.80	222.00
biphenyl	230.59	197.38	201.00	122.58	192.73	279.18
acenaphthylene	10.26	8.51	7.24	7.41	8.01	10.45
acenaphthene	ND	ND	ND	ND	ND	ND
dibenzofuran	57.82	50.72	49.46	31.60	51.06	75.55
fluorene	6.69	5.72	5.80	6.91	4.45	ND
C1-fluorenes	32.79	22.41	20.60	13.15	20.54	29.78
C2-fluorenes	ND	ND	ND	ND	ND	ND
C3-fluorenes	ND	ND	ND	ND	ND	ND
phenanthrene	127.78	100.11	93.03	52.60	103.79	152.45
anthracene	7.58	5.22	4.11	4.88	5.18	6.08
C1-phenanthrenes/anthracenes	105.90	68.51	55.22	37.92	60.41	85.78
C2-phenanthrenes/anthracenes	90.81	46.74	56.92	36.70	51.75	85.43
C3-phenanthrenes/anthracenes	ND	ND	ND	ND	ND	ND
C4-phenanthrenes/anthracenes	ND	ND	ND	ND	ND	ND
dibenzothiophene	13.28	10.56	9.61	6.19	10.76	15.59
C1-dibenzothiophenes	33.84	26.24	20.93	ND	16.31	23.63
C2-dibenzothiophenes	ND	ND	28.95	ND	24.53	34.90
C3-dibenzothiophenes	ND	ND	18.64	ND	19.75	23.98
fluoranthene	37.53	12.10	11.99	5.64	10.62	16.47
pyrene	57.02	9.81	11.77	5.10	10.19	16.44
C1-fluoranthenes/pyrenes	31.28	ND	9.88	ND	9.79	15.25
benz[a]anthracene	7.11	3.48	4.61	1.62	3.67	6.68
chrysene	12.01	4.29	4.94	1.74	3.96	7.89
C1-chrysenes	1.70	ND	ND	0.69	5.27	8.50
C2-chrysenes	ND	ND	ND	ND	ND	ND
C3-chrysenes	ND	ND	ND	ND	ND	ND
C4-chrysenes	ND	ND	ND	ND	ND	ND
benzo[b]fluoranthene	ND	7.76	ND	ND	ND	ND
benzo[k]fluoranthene	ND	ND	ND	ND	ND	ND
benzo[e]pyrene	9.20	2.38	2.63	ND	3.24	5.09
benzo[a]pyrene	ND	ND	ND	ND	ND	1.57
perylene	19.97	ND	ND	ND	ND	ND
indeno[1,2,3-c,d]pyrene	4.65	3.06	3.41	1.24	2.83	5.92
dibenz[a,h]anthracene	ND	ND	1.39	0.69	1.71	2.95
benzo[g,h,i]perylene	12.58	4.16	4.43	1.30	4.35	8.46
Surrogate Recoveries (%)						
naphthalene-d8	57	55	58	56	54	87
acenaphthene-d10	70	68	70	71	66	103
benzo[a]pyrene-d12	51	49	55	25	55	86

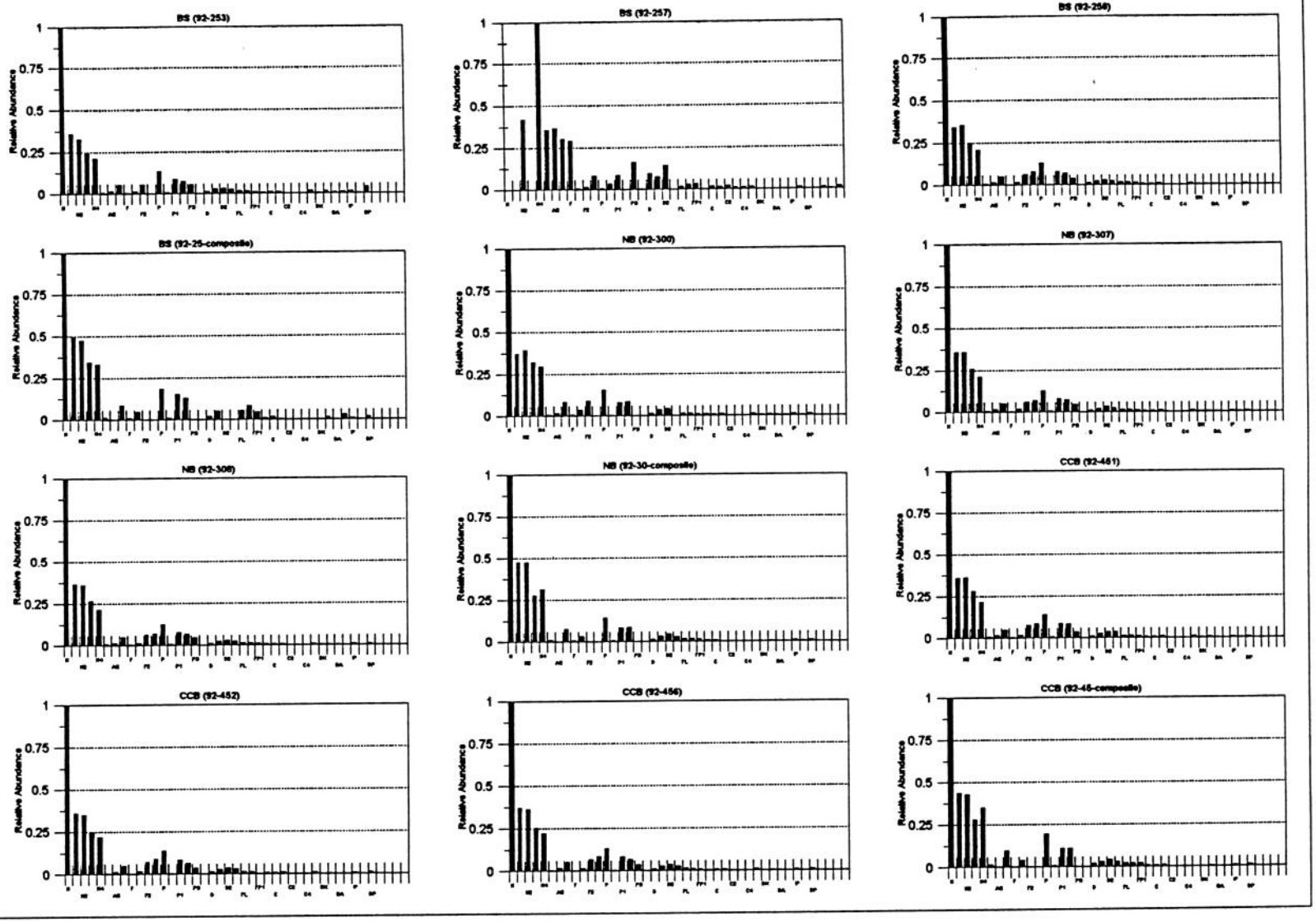
ND - Not Detected

Results of Lobster Hepatopancreas Analysis for PAH (ng/g - dry weight)

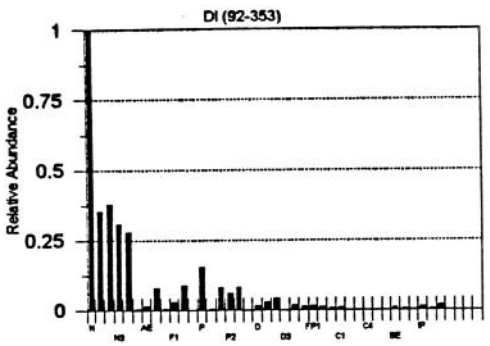
Sample Location:	FOS	FOS	FOS	CCB	CCB	CCB	DI	DI	DI
Sample ID:	LU87	LU88	LU89	LU90	LU91	LU94	LU92	LU93	LU95
Sample Dry Weight (g):	3.803	3.902	2.647	1.009	7.343	2.102	2.977	5.479	4.631
naphthalene	448.30	259.91	502.09	1307.49	188.83	760.93	598.21	396.73	341.00
C1-naphthalenes	282.52	166.54	296.97	595.65	184.91	402.45	667.80	1295.71	866.08
C2-naphthalenes	373.30	234.72	366.68	620.94	238.74	474.15	1528.63	3744.04	3357.35
C3-naphthalenes	342.74	232.70	343.39	431.59	243.83	409.17	2165.47	5236.48	5439.21
biphenyl	187.06	103.19	ND	433.52	112.59	246.97	ND	261.18	203.58
acenaphthylene	14.74	19.64	19.38	15.29	14.26	10.82	30.68	32.47	23.97
acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
dibenzofuran	75.45	46.42	69.71	105.00	65.75	80.53	116.90	166.13	128.85
fluorene	ND	32.88	48.41	19.57	59.66	28.17	119.44	245.99	186.24
C1-fluorenes	87.86	65.85	87.74	48.25	79.21	76.48	375.19	868.75	823.23
C2-fluorenes	188.55	124.73	233.62	152.39	169.26	199.51	1132.24	2155.75	2726.00
C3-fluorenes	158.30	152.50	269.28	183.41	144.37	174.71	1136.72	1594.73	2553.62
phenanthrene	247.84	167.95	212.73	227.51	198.40	242.37	670.11	937.80	1011.71
anthracene	8.54	82.31	13.83	10.09	6.00	11.98	75.79	76.93	95.75
C1-phenanthrenes/anthracenes	200.95	192.94	213.11	158.86	137.81	226.03	1178.00	1820.50	2418.54
C2-phenanthrenes/anthracenes	150.13	196.57	227.51	140.48	124.34	201.63	1841.33	2479.65	3934.74
C3-phenanthrenes/anthracenes	139.98	124.55	262.42	88.26	124.35	146.54	1278.46	1146.09	2097.40
C4-phenanthrenes/anthracenes	34.00	106.45	117.47	28.37	31.66	41.49	880.49	449.09	1013.37
dibenzothiophene	19.50	16.83	16.41	22.14	15.84	23.51	70.36	127.02	136.67
C1-dibenzothiophenes	41.48	38.59	41.95	40.30	32.45	51.16	299.11	501.75	668.48
C2-dibenzothiophenes	53.51	53.29	94.00	59.93	42.64	80.31	722.70	960.99	1641.44
C3-dibenzothiophenes	28.09	39.63	88.89	46.47	25.15	44.18	597.91	513.89	984.73
fluoranthene	202.06	352.63	196.49	90.88	170.14	207.96	1250.03	1607.03	2302.74
pyrene	76.44	230.85	142.29	54.32	77.79	120.14	1049.34	1438.16	1899.32
C1-fluoranthenes/pyrenes	37.22	163.71	117.34	36.19	42.29	50.04	965.36	689.78	1169.85
benz[a]anthracene	9.70	134.43	36.80	11.64	9.70	10.98	224.15	104.76	242.48
chrysene	11.46	154.31	33.00	13.29	15.01	52.07	220.52	98.04	565.21
C1-chrysenes	15.43	118.19	73.66	18.76	14.87	21.78	554.24	15.58	344.40
C2-chrysenes	18.87	72.58	69.73	19.00	12.06	24.53	510.60	85.06	287.05
C3-chrysenes	10.65	39.94	41.51	ND	4.51	12.19	247.01	36.35	148.47
C4-chrysenes	ND	ND	ND	ND	ND	ND	ND	ND	81.83
benzo[b]fluoranthene	25.50	127.46	62.96	18.30	15.14	13.73	226.33	87.28	223.30
benzo[k]fluoranthene	10.53	49.74	34.77	6.46	7.38	5.34	104.24	37.07	91.78
benzo[e]pyrene	9.04	90.52	44.61	11.10	8.03	12.69	174.47	46.41	121.26
benzo[a]pyrene	5.18	84.34	22.34	7.44	4.50	6.06	134.13	40.14	107.41
perylene	3.05	24.10	8.44	3.90	1.51	2.59	166.37	9.56	22.82
indeno[1,2,3-c,d]pyrene	7.06	52.03	17.85	9.15	3.90	5.22	63.18	19.98	51.41
dibenz[a,h]anthracene	2.07	9.31	3.21	2.51	0.58	1.16	11.31	3.44	8.59
benzo[g,h,i]perylene	5.43	42.87	11.95	10.83	2.02	7.28	48.54	9.89	27.55
Surrogate Recoveries (%)									
naphthalene-d8	44	50	37	52	48	53	38	45	60
acenaphthene-d10	55	62	47	64	55	65	47	53	72
benzo[a]pyrene-d12	28	49	21	62	11	43	21	14	43

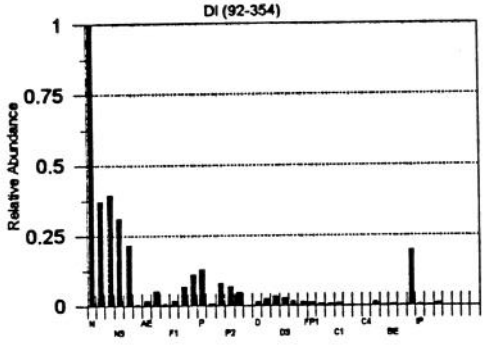
ND - Not Detected

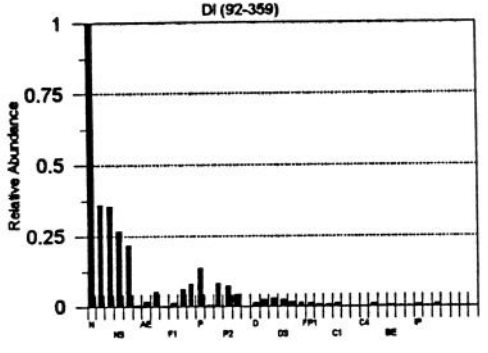
PAH in Flounder Liver

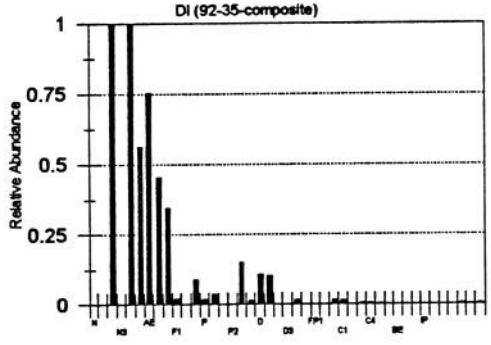


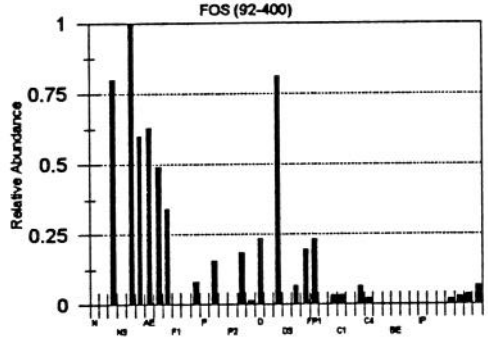
PAH in Flounder Liver

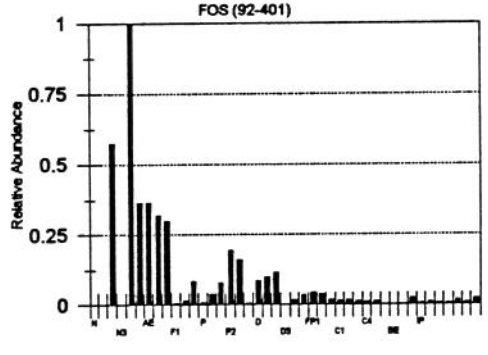


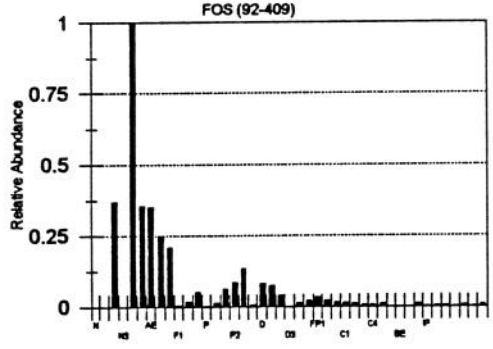


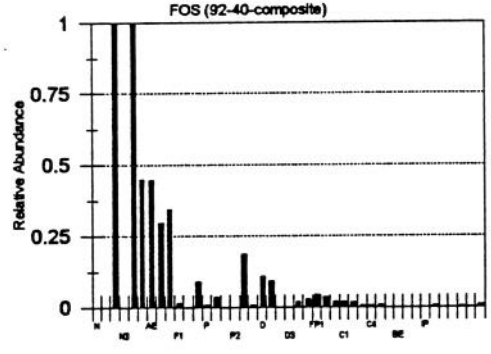


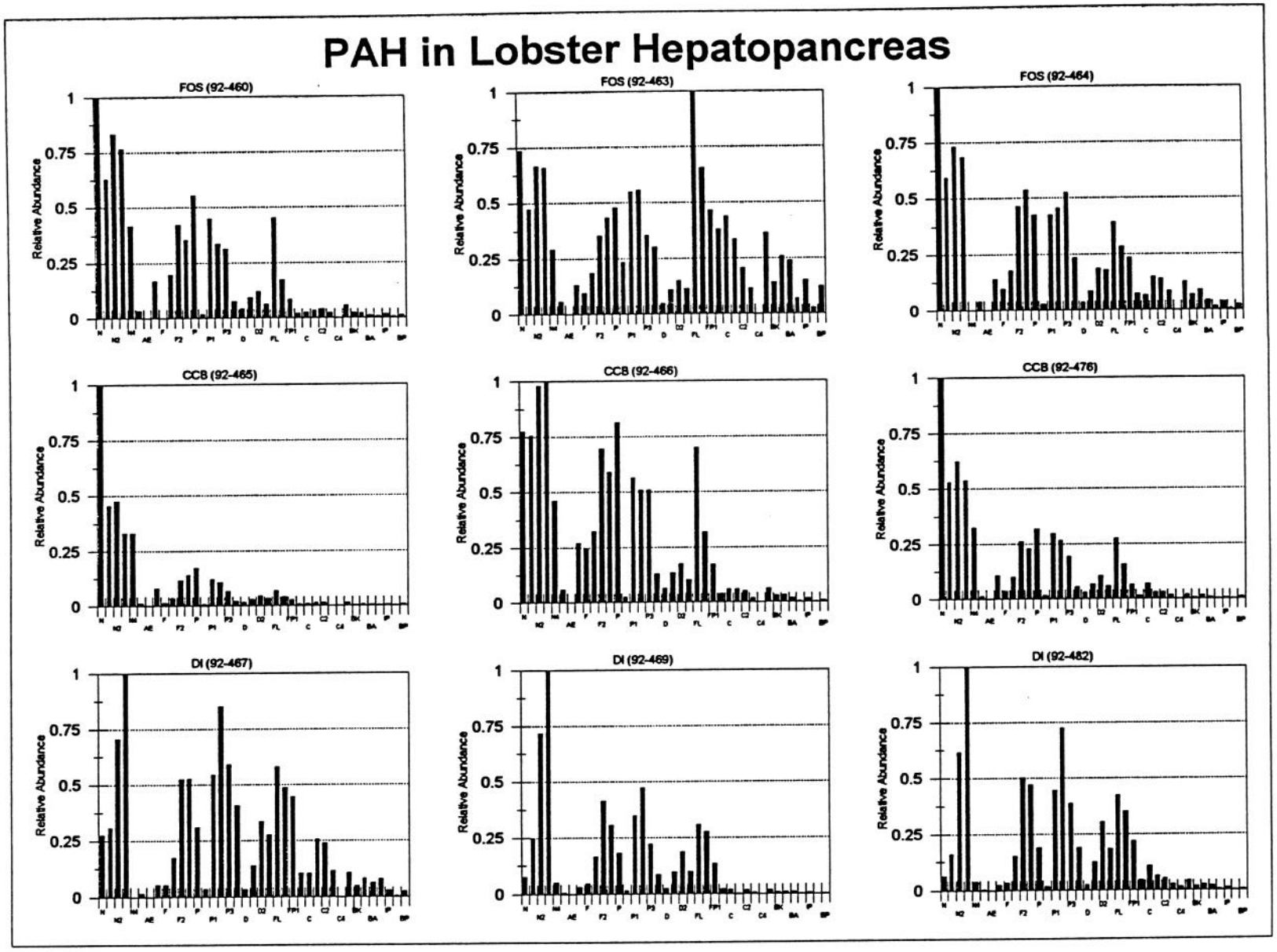











PAH in Lobster Hepatopancreas
FOS (92-460)
FOS (92-463)
FOS (92-464)
CCB (92-465)
CCB (92-466)
CCB (92-476)
DI (92-467)
DI (92-469)
DI (92-482)
Relative Abundance
1
0.75
0.5
0.25
0

Results of Flounder Muscle Analysis (ng/g - dry weight)

Sample Location:	BS	BS	BS	BS	BS	NB	NB	NB	NB	CCB	CCB	CCB	CCB
Sample ID:	LV02	LV02	LV03	LV04	LU96	LV05	LV06	LV07	LU97	LV14	LV15	LV16	LV01
	REP 1	REP 2			composite				composite				composit
Sample Dry Weight (g):	6.084	6.085	6.096	7.054	5.954	6.524	5.148	5.984	6.251	5.633	6.840	6.089	6.381
HEXACHLOROBENZEN	1.02	0.61	1.12	0.51	0.46	0.63	0.58	0.35	0.40	0.54	0.25	0.16	0.41
LINDANE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.12
HEPTACHLOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALDRIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEPTACHLOREPOXID	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.19
2,4-DDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CIS-CHLORDANE	7.94	5.95	26.38	7.47	3.12	10.49	4.20	1.51	1.44	1.47	0.82	0.48	1.02
TRANS-NONACHLOR	19.64	14.71	42.42	9.00	5.95	15.89	9.79	2.83	2.62	2.88	1.17	0.77	1.86
DIELDRIN	1.65	1.88	3.46	1.29	1.61	3.47	6.01	1.01	1.19	1.88	0.72	0.54	1.03
4,4-DDE	57.96	67.02	44.33	17.72	24.44	42.94	20.75	13.62	8.27	13.62	7.83	4.68	9.21
2,4-DDD	4.95	3.99	6.47	1.67	2.54	2.56	2.23	1.48	0.87	0.75	0.53	0.32	0.81
ENDRIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,4-DDD	4.89	4.56	7.71	1.82	2.08	7.24	3.02	0.83	0.84	0.92	0.88	0.43	0.90
2,4-DDT	4.43	4.12	5.61	1.55	2.44	4.88	4.37	1.04	1.10	0.79	0.71	0.27	0.81
4,4-DDT	5.44	4.50	5.43	1.94	2.20	3.28	1.42	1.43	1.03	0.83	0.24	0.17	0.98
MIREX	0.85	0.87	0.72	0.00	0.40	0.37	0.55	0.26	0.25	0.00	0.00	0.00	0.25
CL2(08)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL3(18)	0.00	0.00	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL3(28)	2.06	1.76	8.28	2.15	1.30	4.40	0.00	0.00	0.76	0.00	0.56	0.00	0.63
CL4(52)	2.53	2.14	9.28	1.25	1.78	4.70	1.68	0.87	0.99	0.99	1.13	0.55	0.55
CL4(44)	0.00	0.00	2.05	0.52	0.50	0.88	0.92	0.47	0.56	0.00	0.50	0.27	0.37
CL4(66)	12.12	12.21	41.57	7.31	5.69	16.54	7.93	3.40	2.71	2.26	1.37	0.88	2.00
CL5(101)	24.70	17.72	47.16	9.37	8.47	24.91	13.23	3.93	4.25	5.14	3.78	2.04	3.33
CL4(77)	45.45	43.98	0.00	25.10	0.00	45.49	25.76	11.69	0.00	0.00	0.00	0.00	0.00
CL5(118)	60.16	57.53	88.17	21.89	28.95	50.43	30.96	21.35	10.33	10.16	5.08	3.43	8.76
CL6(153)	122.82	109.87	167.28	42.84	48.91	77.88	75.71	37.71	22.09	21.00	9.70	6.47	15.76
CL5(105)	30.26	28.34	18.59	9.10	17.29	19.53	17.76	9.65	4.14	2.63	1.43	1.47	4.47
CL6(138)	127.18	115.87	152.61	38.87	45.44	80.64	64.47	35.98	17.72	15.00	7.08	0.27	14.59
CL5(126)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL7(187)	33.67	30.40	39.04	7.55	12.66	15.06	14.55	5.56	5.32	4.12	2.45	1.71	4.45
CL6(128)	14.32	14.37	23.73	4.65	5.12	5.32	2.50	1.66	2.19	1.06	0.71	0.53	1.81
CL7(180)	88.72	88.39	29.79	34.39	22.83	77.85	52.62	22.92	8.67	2.62	0.98	1.13	4.98
CL7(170)	34.62	31.54	17.11	38.91	12.92	27.43	76.07	40.86	8.99	4.40	6.88	4.99	6.28
CL8(195)	3.68	3.44	2.00	1.03	1.48	1.19	1.46	0.62	0.75	0.27	0.15	0.16	0.71
CL9(206)	4.13	4.03	1.81	1.28	1.09	1.45	1.55	0.59	0.70	0.22	0.22	0.14	0.75
CL10(209)	1.99	1.89	0.89	0.77	0.51	0.83	0.80	0.32	0.59	0.19	0.20	0.10	0.59
Recovery DBOFB (%)	43.2	53.1	66.3	49.8	88.8	40.4	46.9	47.7	71.0	54.5	65.4	67.4	78.2
Recovery CL5(112) (%)	61.1	57.3	72.9	61.3	73.3	51.1	64.6	58.8	70.3	64.2	65.7	62.6	72.4

Results of Flounder Muscle Analysis (ng/g - dry weight)

Sample Location:	DI	DI	DI	DI	FOS	FOS	FOS	FOS
Sample ID:	LV08	LV09	LV10	LU98 composite	LV11	LV12	LV13	LU99 composite
Sample Dry Weight (g):	5.819	5.691	4.388	6.459	5.254	6.337	5.734	6.308
HEXACHLOROBENZEN	1.88	0.60	0.49	0.64	0.84	0.26	0.28	0.59
LINDANE	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.14
HEPTACHLOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALDRIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEPTACHLOREPOXID	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.28
2,4-DDE	0.00	20.27	0.00	0.00	0.00	7.28	7.96	0.00
CIS-CHLORDANE	27.58	6.16	6.51	4.55	4.44	3.41	2.96	2.06
TRANS-NONACHLOR	71.77	7.00	9.70	8.37	6.30	5.67	5.20	3.58
DIELDRIN	4.63	2.26	1.54	2.23	1.30	0.78	0.85	1.22
4,4-DDE	42.25	24.30	27.58	25.89	18.62	13.35	17.26	13.68
2,4-DDD	11.94	2.60	2.04	2.91	3.73	1.11	1.50	1.69
ENDRIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,4-DDD	8.57	3.76	3.92	4.36	2.97	1.03	2.03	1.33
2,4-DDT	4.95	3.29	3.19	2.87	2.92	1.35	1.95	1.91
4,4-DDT	5.49	3.49	3.40	2.44	3.17	1.02	2.25	1.76
MIREX	1.50	0.00	0.00	0.62	0.63	0.00	0.51	0.42
CL2(08)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL3(18)	2.34	0.00	0.00	0.39	0.00	0.00	0.00	0.16
CL3(28)	4.82	3.53	2.28	2.83	1.95	0.81	1.29	0.77
CL4(52)	7.47	3.42	1.57	2.57	3.34	0.62	0.76	0.83
CL4(44)	0.00	0.79	0.44	0.83	0.00	0.27	0.32	0.45
CL4(66)	25.67	9.96	7.11	10.29	9.90	4.15	4.42	3.45
CL5(101)	41.64	0.00	13.32	13.49	20.09	0.00	0.00	6.25
CL4(77)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL5(118)	105.92	36.13	29.81	35.39	43.37	17.57	28.14	16.73
CL6(153)	323.50	67.61	55.67	58.55	109.33	36.51	51.74	31.93
CL5(105)	25.49	18.97	11.76	18.98	7.38	6.46	12.66	8.51
CL6(138)	244.29	64.00	50.46	54.60	81.65	34.43	48.88	28.97
CL5(126)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL7(187)	41.08	13.03	10.35	13.85	27.26	7.75	11.61	9.91
CL6(128)	36.70	2.86	5.78	5.93	5.11	4.36	3.06	4.36
CL7(180)	61.24	48.30	42.68	30.92	20.74	22.32	50.45	17.56
CL7(170)	34.33	47.77	52.69	12.52	8.24	19.22	25.76	5.64
CL8(195)	3.81	1.31	1.03	2.12	1.72	0.81	0.95	1.98
CL9(206)	2.61	1.13	0.97	1.95	1.67	0.93	1.20	2.23
CL10(209)	0.66	0.56	0.74	1.14	0.67	0.54	0.54	1.36
Recovery DBOFB (%)	80.1	75.2		70.5	68.5	54.8	53.1	82.1
Recovery CL5(112) (%)	74.2	97.2	49.3	70.6	77.0	64.5	60.4	77.2

Results of Flounder Liver Analysis (ng/g - dry weight)

Sample Location:	BS	BS	BS	BS	BS	NB	NB	NB	NB	CCB	CCB	CCB	CCB
Sample ID:	LV22	LV23	LV24	LV17 composite	LV17 composite	LV25	LV26	LV27	LV18 composite	LV34	LV35	LV36	LV21 composit
Sample Dry Weight (g):	0.331	0.419	0.160	1.551 REP 1	1.587 REP 2	0.263	0.162	0.305	1.606	0.276	0.357	0.520	1.055
HEXACHLOROBENZEN	5.18	10.17	8.09	5.46	5.62	3.43	5.37	3.84	2.08	3.45	1.94	2.34	2.49
LINDANE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEPTACHLOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALDRIN	0.00	0.00	0.00	11.11	9.81	0.00	0.00	0.00	2.71	0.00	0.00	0.00	2.09
HEPTACHLOREPOXID	0.00	0.00	0.00	4.53	4.26	0.00	0.00	0.00	1.30	0.00	0.00	0.00	1.19
2,4-DDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CIS-CHLORDANE	33.06	215.19	132.67	29.78	25.82	49.90	48.89	19.94	12.41	7.94	5.71	7.39	4.50
TRANS-NONACHLOR	64.29	368.61	157.91	56.09	48.37	63.64	104.05	37.83	18.54	11.38	5.58	10.04	7.66
DIELDRIN	12.67	27.74	19.01	12.53	10.67	25.97	18.83	8.74	7.22	8.01	3.83	6.40	10.98
4,4-DDE	169.15	398.60	276.44	208.06	230.26	141.86	201.90	148.86	72.14	46.07	28.48	42.13	53.39
2,4-DDD	22.11	67.87	33.09	8.87	7.67	17.26	26.80	20.89	3.24	0.00	3.13	3.86	3.05
ENDRIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,4-DDD	21.61	91.30	43.95	22.33	17.34	27.85	23.09	13.26	5.02	3.39	3.85	3.67	4.03
2,4-DDT	24.94	41.88	28.21	20.33	19.01	26.64	31.92	13.98	7.06	3.80	3.28	4.46	3.65
4,4-DDT	15.68	30.09	13.48	14.56	9.37	14.56	13.15	8.55	2.89	0.00	0.00	0.00	0.00
MIREX	7.20	5.51	7.12	5.16	3.72	2.71	12.69	5.49	1.57	0.00	0.00	0.00	1.49
CL2(08)	0.00	0.00	0.00	18.01	15.42	0.00	0.00	0.00	6.62	0.00	0.00	0.00	6.25
CL3(18)	0.00	23.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL3(28)	14.51	78.46	44.16	64.42	61.80	35.36	33.02	16.61	10.78	8.33	6.56	7.18	4.10
CL4(52)	14.03	83.73	0.00	13.78	13.63	30.97	0.00	15.58	4.13	14.57	8.15	9.27	2.20
CL4(44)	8.58	0.00	19.79	3.26	5.00	12.09	17.30	9.45	1.52	10.54	8.50	5.74	1.62
CL4(66)	68.37	422.41	146.18	70.01	63.62	102.97	107.40	65.53	21.39	15.32	10.73	16.03	9.65
CL5(101)	106.88	436.07	177.47	84.82	70.26	135.18	148.91	63.93	22.60	31.26	24.60	36.24	12.62
CL4(77)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.37
CL5(118)	262.21	1048.59	429.03	242.95	201.29	252.34	374.03	275.68	76.14	47.67	25.51	42.94	49.68
CL6(153)	627.10	1807.97	890.30	528.84	417.91	453.24	1056.90	618.77	158.23	99.36	53.45	88.64	116.57
CL5(105)	81.78	261.17	155.75	85.37	71.42	89.49	109.40	71.06	22.18	14.48	8.02	11.85	21.78
CL6(138)	506.69	1759.97	707.38	427.34	359.90	404.11	713.24	479.53	133.08	70.21	46.26	68.20	90.00
CL5(126)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL7(187)	176.05	405.61	194.07	122.91	97.88	96.93	215.54	97.49	34.42	24.72	13.35	25.12	28.16
CL6(128)	76.90	250.28	109.77	28.00	21.68	37.32	37.52	27.56	17.48	6.04	4.19	7.44	6.95
CL7(180)	272.46	320.31	367.55	489.94	429.68	157.21	499.60	250.86	110.95	16.40	5.99	13.38	38.36
CL7(170)	114.77	138.39	160.33	126.83	150.89	68.14	165.93	90.16	33.33	22.48	0.00	21.37	135.18
CL8(195)	25.12	18.35	35.33	13.20	10.73	11.31	42.05	18.51	4.73	3.39	0.00	2.13	3.95
CL9(206)	23.94	16.53	34.13	16.09	12.50	11.31	47.38	17.14	5.62	0.00	0.00	0.94	5.03
CL10(209)	6.34	4.23	10.97	5.20	3.54	4.13	15.55	6.43	2.61	0.00	0.00	1.34	2.56
Recovery DBOFB (%)	60.30	79.40	68.20	95.80	91.60	70.50	68.20	66.20	96.28	72.40	71.60	73.90	108.61
Recovery CL5(112) (%)	71.90	84.20	76.50	95.80	83.24	80.70	80.80	82.90	82.51	94.40	84.10	89.70	79.09

Results of Flounder Liver Analysis (ng/g - dry weight)

Sample Location:	DI	DI	DI	DI	FOS	FOS	FOS	FOS	FOS
Sample ID:	LV28	LV29	LV30	LV19 composite	LV31	LV32	LV33 REP 1	LV33 REP 1	LV20 composit
Sample Dry Weight (g):	0.237	0.617	0.113	3.775	0.800	0.575	0.370	0.513	1.77
HEXACHLOROBENZEN	9.43	2.47	6.14	5.26	6.01	4.74	3.10	3.44	4.02
LINDANE	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00
HEPTACHLOR	0.00	0.00	0.00	2.66	0.00	0.00	0.00	0.00	0.00
ALDRIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.87
HEPTACHLOREPOXID	0.00	1.20	0.00	3.60	0.00	0.00	0.00	0.00	2.20
2,4-DDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CIS-CHLORDANE	116.36	20.23	83.08	63.56	36.86	62.30	35.97	36.36	24.11
TRANS-NONACHLOR	276.58	20.38	112.70	131.40	49.93	106.60	65.15	63.99	37.34
DIELDRIN	18.33	12.47	17.76	23.72	11.19	9.81	16.36	20.64	9.82
4,4-DDE	155.61	82.81	214.10	82.20	181.64	192.56	107.77	117.86	105.85
2,4-DDD	45.81	9.50	25.12	16.81	29.36	28.80	14.47	17.94	7.86
ENDRIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,4-DDD	41.47	14.12	38.66	43.74	34.73	19.57	20.25	22.84	13.70
2,4-DDT	16.57	11.80	36.62	24.43	21.91	19.87	11.04	12.96	14.99
4,4-DDT	7.05	8.82	26.10	14.37	15.62	13.71	8.51	12.10	0.00
MIREX	5.65	0.00	0.00	0.00	5.55	4.97	3.68	4.26	0.00
CL2(08)	0.00	0.00	0.00	10.55	0.00	0.00	0.00	0.00	11.12
CL3(18)	10.65	0.00	0.00	5.65	6.67	5.65	5.34	3.75	0.00
CL3(28)	30.70	20.02	39.63	49.95	17.07	17.30	13.91	15.02	9.47
CL4(52)	41.77	12.92	29.96	25.98	22.86	13.28	0.00	0.00	6.59
CL4(44)	0.00	5.38	32.08	6.48	6.48	6.17	0.00	0.00	2.13
CL4(66)	119.70	47.32	126.53	155.61	91.04	132.77	71.61	82.49	42.53
CL5(101)	190.80	67.01	186.78	149.87	150.91	169.24	117.63	109.99	56.28
CL4(77)	0.00	0.00	0.00	343.39	0.00	0.00	0.00	0.00	99.53
CL5(118)	465.92	156.72	286.73	201.15	421.95	404.31	252.20	277.73	132.50
CL6(153)	1309.58	346.17	619.00	462.22	1000.42	890.84	605.09	653.34	319.88
CL5(105)	149.05	54.54	99.36	125.89	94.96	80.49	48.35	46.75	36.55
CL6(138)	1016.85	269.89	513.03	371.72	805.10	773.91	443.74	489.96	249.40
CL5(126)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL7(187)	170.74	70.75	144.93	78.97	244.93	215.28	143.62	150.78	82.43
CL6(128)	141.16	17.35	73.74	43.78	44.17	101.63	33.05	34.62	26.68
CL7(180)	254.36	136.89	188.56	440.17	223.69	157.46	69.78	84.31	237.38
CL7(170)	108.41	65.62	104.12	118.46	78.80	171.34	34.06	33.80	80.71
CL8(195)	13.96	9.41	21.28	19.76	13.47	11.86	6.38	6.66	12.40
CL9(206)	8.20	7.40	11.12	19.80	12.55	12.45	5.75	6.38	16.42
CL10(209)	2.40	2.53	10.33	6.10	3.54	4.81	1.48	1.81	6.79
Recovery DBOFB (%)	87.20	92.70	77.80	72.17	82.80	84.20	86.90	81.70	73.42
Recovery CL5(112) (%)	97.90	86.40	91.90	81.11	88.90	91.20	111.80	99.30	87.66

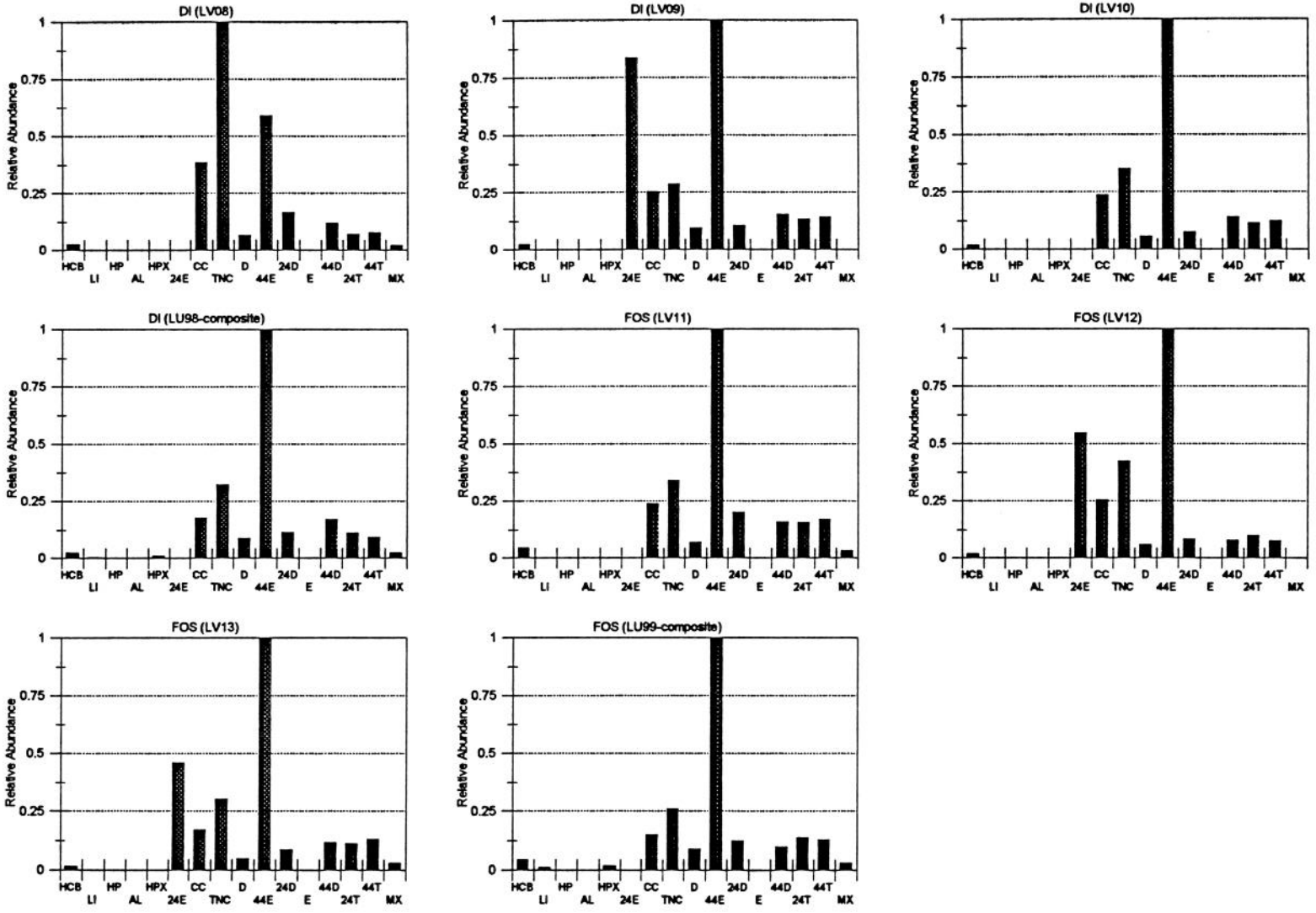
Results of Lobster Muscle Analysis (ng/g - dry weight)

Sample Location:	DI	DI	DI	FOS	FOS	FOS	FOS	CCB	CCB	CCB
Sample ID:	LU83	LU84	LU86	LU78 REP 1	LU78 REP 2	LU79	LU80	LU81	LU82	LU85
Sample Dry Weight (g):	6.673	7.129	6.025	5.201	5.212	4.992	5.787	4.95	6.689	5.289
HEXACHLOROBENZEN	0.30	0.42	0.38	0.24	0.22	0.37	0.51	0.22	0.41	0.43
LINDANE	1.14	2.40	2.49	2.81	2.45	1.69	1.73	0.85	3.48	1.51
HEPTACHLOR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
ALDRIN	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HEPTACHLOREPOXID	0.25	0.53	0.39	0.45	0.33	0.24	0.30	0.27	0.35	0.42
2,4-DDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CIS-CHLORDANE	1.08	1.21	1.43	0.14	0.14	0.54	0.53	0.28	0.53	0.22
TRANS-NONACHLOR	1.92	1.67	2.69	0.69	0.61	0.80	0.87	1.07	0.59	0.98
DIELDRIN	5.32	5.04	6.15	3.87	3.78	3.66	4.35	3.12	3.02	4.41
4,4-DDE	8.65	12.09	12.76	9.67	9.25	8.25	5.76	25.01	3.56	22.11
2,4-DDD	0.72	0.00	0.78	0.00	0.00	0.80	0.00	0.53	0.00	0.00
ENDRIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,4-DDD	2.47	2.15	2.68	0.48	0.48	1.24	0.89	0.88	0.91	1.02
2,4-DDT	1.02	1.14	1.48	0.59	0.63	0.94	0.60	1.57	0.62	1.34
4,4-DDT	0.44	0.38	0.37	0.00	0.00	0.85	0.00	0.00	0.00	0.21
MIREX	0.16	0.34	0.31	0.23	0.27	0.27	0.21	0.29	0.10	0.47
CL2(08)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL3(18)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL3(28)	2.81	3.28	3.24	0.30	0.36	1.33	0.96	0.00	0.63	1.64
CL4(52)	0.66	1.16	1.31	0.00	0.00	0.61	0.50	0.00	0.41	0.29
CL4(44)	0.47	0.37	0.60	0.34	0.28	0.37	0.48	0.54	0.38	0.40
CL4(66)	7.14	6.13	7.28	2.27	2.14	3.89	3.21	3.03	1.41	5.79
CL5(101)	3.97	4.02	3.93	0.48	0.35	3.17	1.09	0.00	0.83	1.01
CL4(77)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL5(118)	14.81	20.54	22.34	9.82	9.81	15.80	10.60	20.91	4.57	23.16
CL6(153)	15.69	17.81	22.70	12.65	12.07	17.88	10.28	28.26	5.83	31.08
CL5(105)	6.14	7.44	9.49	3.41	3.13	4.92	3.57	6.67	1.43	9.21
CL6(138)	15.47	18.08	21.60	8.28	7.87	16.14	9.03	23.73	3.10	24.82
CL5(126)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL7(187)	5.38	7.30	6.40	3.44	3.34	6.81	3.53	7.38	1.90	11.09
CL6(128)	2.76	3.23	3.98	1.68	1.76	2.67	1.79	3.07	0.73	4.42
CL7(180)	5.98	6.64	7.43	3.63	3.34	6.09	3.14	8.42	1.55	10.16
CL7(170)	2.45	2.88	3.52	1.45	1.93	2.80	1.48	2.89	0.83	7.51
CL8(195)	0.54	0.51	0.64	0.35	0.31	0.81	0.39	0.41	0.19	1.17
CL9(206)	0.41	0.35	0.43	0.20	0.19	0.77	0.22	0.15	0.06	1.24
CL10(209)	0.30	0.27	0.42	0.20	0.19	0.59	0.27	0.00	0.16	0.64
Recovery DBOFB (%)	60.6	70.8	77.9	97.4	92.5	82.6	87.7	82.5	60.3	76.3
Recovery CL5(112) (%)	61.8	72.8	77.2	90.8	82.7	80.1	81.2	80.5	65.7	72.0

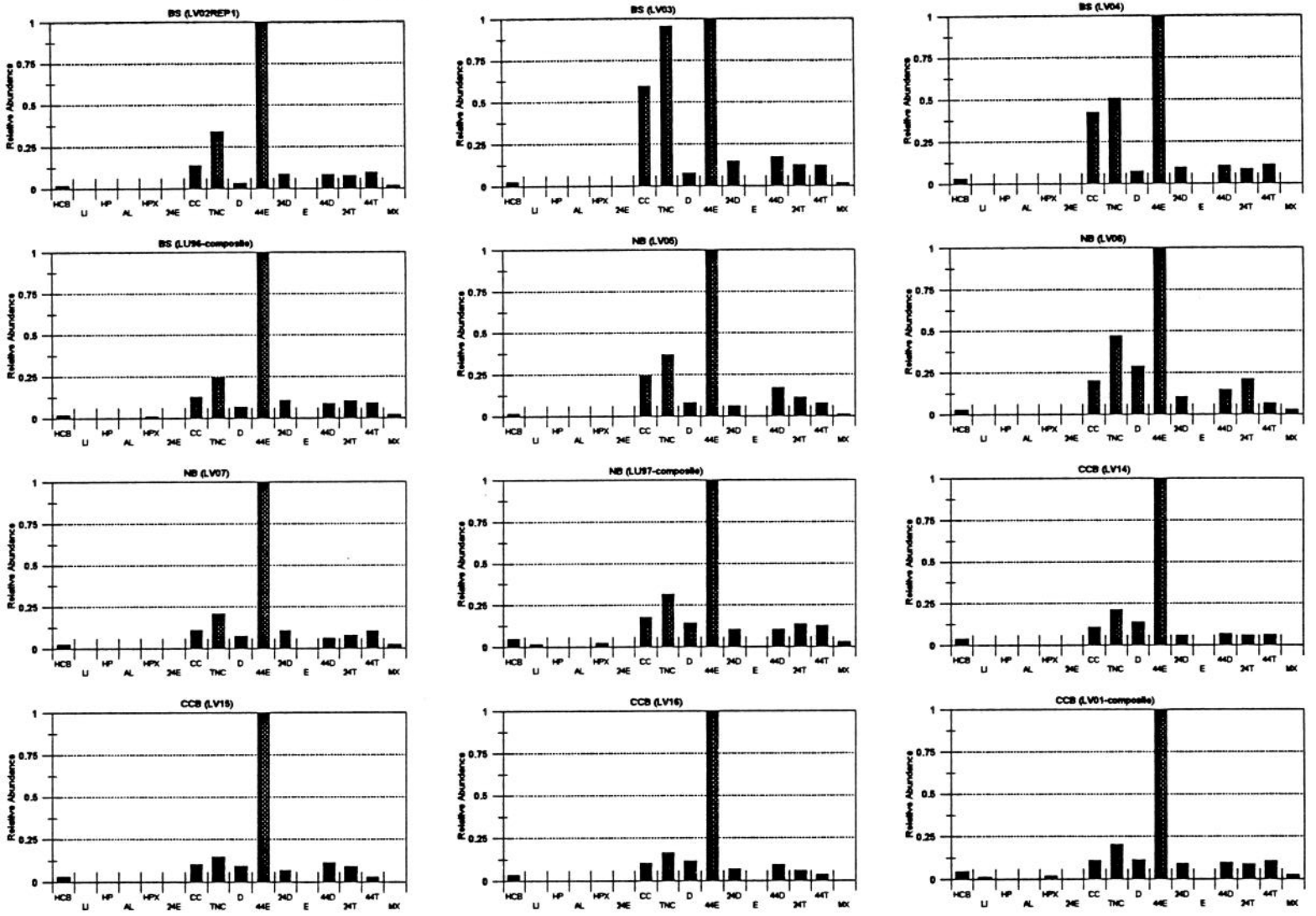
Results of Lobster Hepatopancreas Analysis (ng/g - dry weight)

Sample Location:	DI	DI	DI	FOS	FOS	FOS	CCB	CCB	CCB
Sample ID:	LU92	LU93	LU95	LU87	LU88	LU89	LU90	LU91	LU94
Sample Dry Weight (g):	2.977	5.479	4.631	3.803	3.902	2.647	1.009	7.343	2.102
HEXACHLOROBENZEN	2.32	17.91	15.13	8.44	9.74	4.75	1.84	112.92	7.09
LINDANE	0.00	0.00	3.29	0.00	2.37	0.00	0.00	0.00	2.67
HEPTACHLOR	0.00	0.00	0.00	4.12	2.30	0.00	0.00	0.00	0.00
ALDRIN	0.00	0.00	7.59	0.00	3.64	0.00	0.00	0.00	2.98
HEPTACHLOREPOXID	0.00	0.00	13.66	0.00	6.86	0.00	0.00	0.00	4.13
2,4-DDE	0.00	0.00	0.00	4.04	0.00	0.00	0.00	6.53	0.00
CIS-CHLORDANE	8.04	38.51	84.94	2.10	21.74	5.22	2.10	0.00	4.99
TRANS-NONACHLOR	24.51	122.11	298.34	30.47	66.46	15.27	6.01	11.41	27.27
DIELDRIN	18.73	93.07	85.38	28.96	43.22	8.84	4.28	15.68	20.27
4,4-DDE	243.29	434.83	137.71	332.14	215.75	216.16	123.90	235.54	183.30
2,4-DDD	11.71	23.56	19.53	0.00	30.85	0.00	3.42	8.85	2.91
ENDRIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.41	0.00
4,4-DDD	56.80	201.30	177.82	25.09	84.69	27.26	5.41	20.24	12.79
2,4-DDT	34.25	138.77	99.96	75.48	0.00	30.32	8.15	29.32	48.65
4,4-DDT	5.28	72.58	9.40	0.00	10.29	6.35	0.00	1.35	0.00
MIREX	6.26	8.33	10.58	9.36	10.19	0.00	1.46	0.00	6.57
CL2(08)	0.00	106.85	51.75	59.44	34.77	0.00	0.00	0.00	16.81
CL3(18)	0.00	0.00	3.41	34.63	3.84	0.00	0.00	0.00	2.10
CL3(28)	46.69	129.01	252.45	18.35	64.38	61.05	0.00	75.22	34.89
CL4(52)	9.86	17.92	74.80	0.00	18.58	0.00	0.00	18.83	5.04
CL4(44)	0.00	0.00	2.94	0.00	2.33	0.00	0.00	12.21	0.79
CL4(66)	66.84	0.00	609.00	90.55	222.78	34.70	24.99	27.37	155.78
CL5(101)	51.03	270.25	349.39	60.23	132.42	37.03	9.53	55.21	56.72
CL4(77)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL5(118)	338.23	318.10	179.46	179.00	274.75	245.84	103.82	109.92	189.75
CL6(153)	500.73	440.12	241.37	301.77	489.79	413.80	195.51	203.07	358.44
CL5(105)	226.61	168.03	138.58	110.14	143.62	133.83	47.98	62.26	131.40
CL6(138)	468.72	384.05	225.45	186.58	397.56	335.30	161.77	146.32	257.48
CL5(126)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CL7(187)	139.68	355.91	420.23	220.81	333.28	103.71	50.23	47.60	271.08
CL6(128)	58.58	206.29	255.08	98.22	137.77	41.21	26.95	14.74	86.29
CL7(180)	238.88	785.62	866.85	288.78	240.40	115.86	41.15	48.63	275.65
CL7(170)	90.37	232.53	235.60	112.73	166.79	56.18	20.98	119.04	90.02
CL8(195)	15.71	34.24	34.35	19.89	41.92	12.38	2.78	3.43	21.62
CL9(206)	16.31	36.90	33.89	22.04	59.23	12.08	1.62	4.51	33.55
CL10(209)	6.79	10.01	15.09	9.49	23.48	5.18	0.97	1.29	11.28
Recovery DBOFB (%)	102.9	119.6	75.4	82.0	61.1	72.4	71.8	82.9	63.3
Recovery CL5(112) (%)	62.3	89.8	91.7	64.5	64.2	50.3	91.6	95.5	89.5

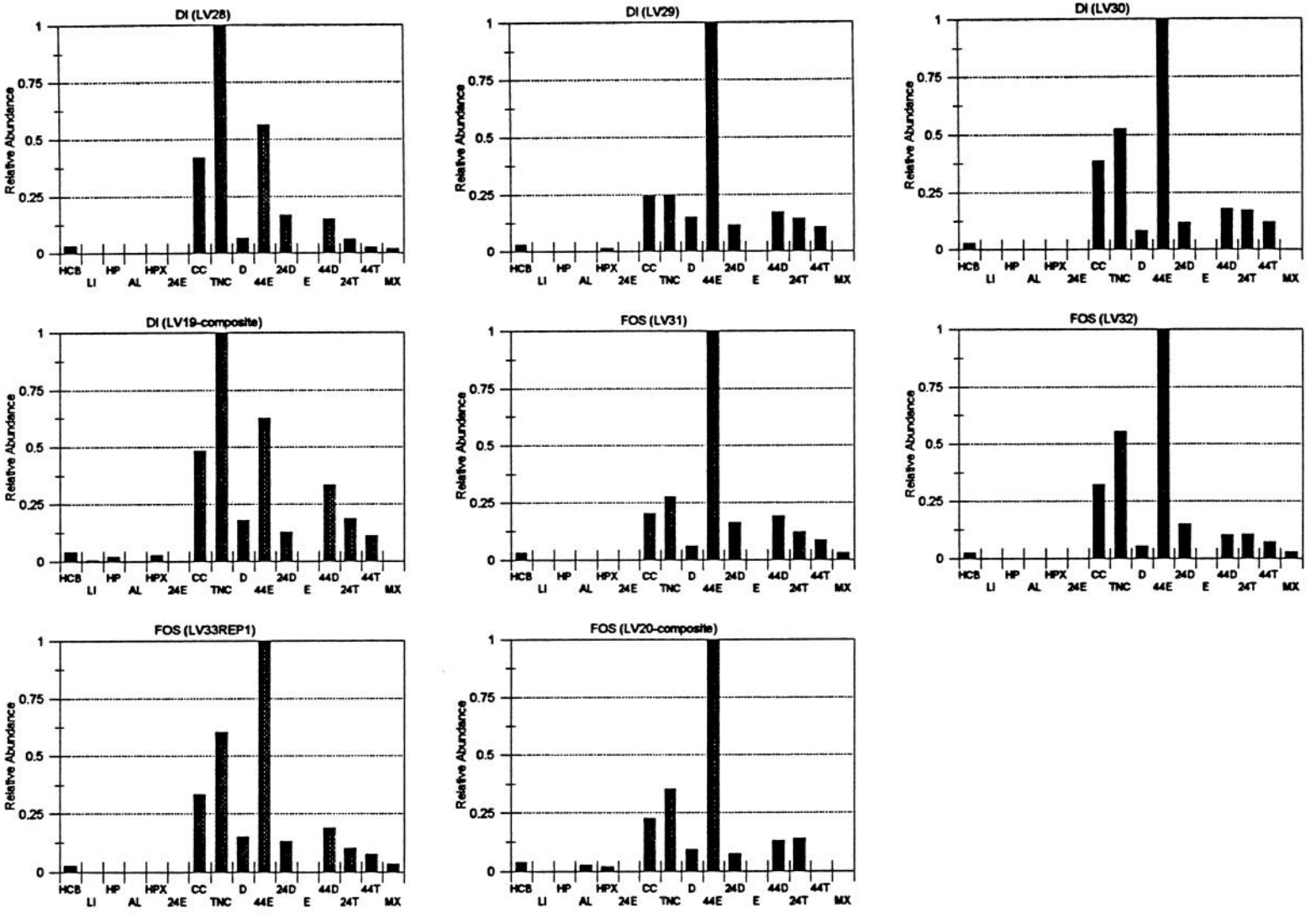
Pesticides in Flounder Muscle



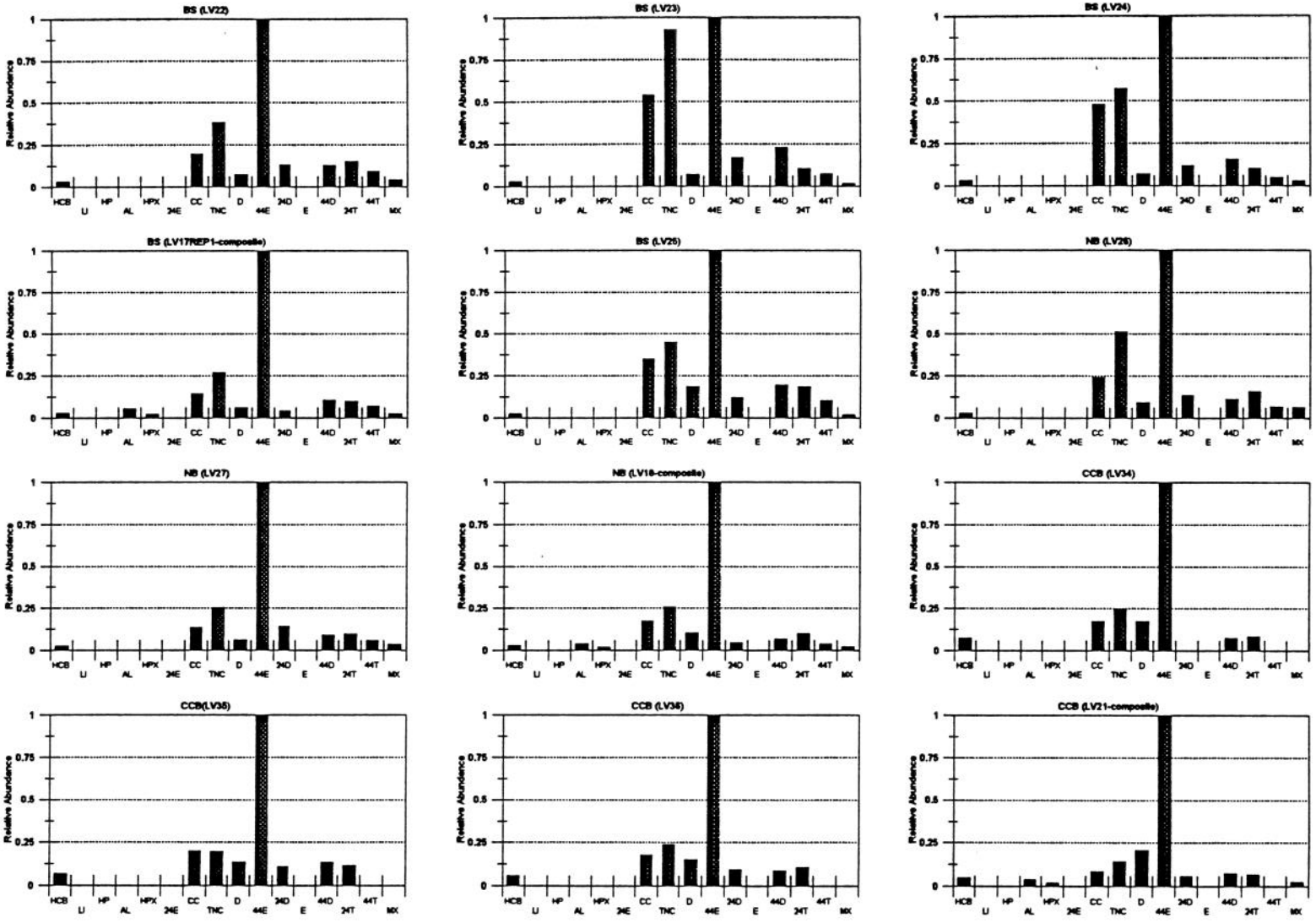
Pesticides in Flounder Muscle

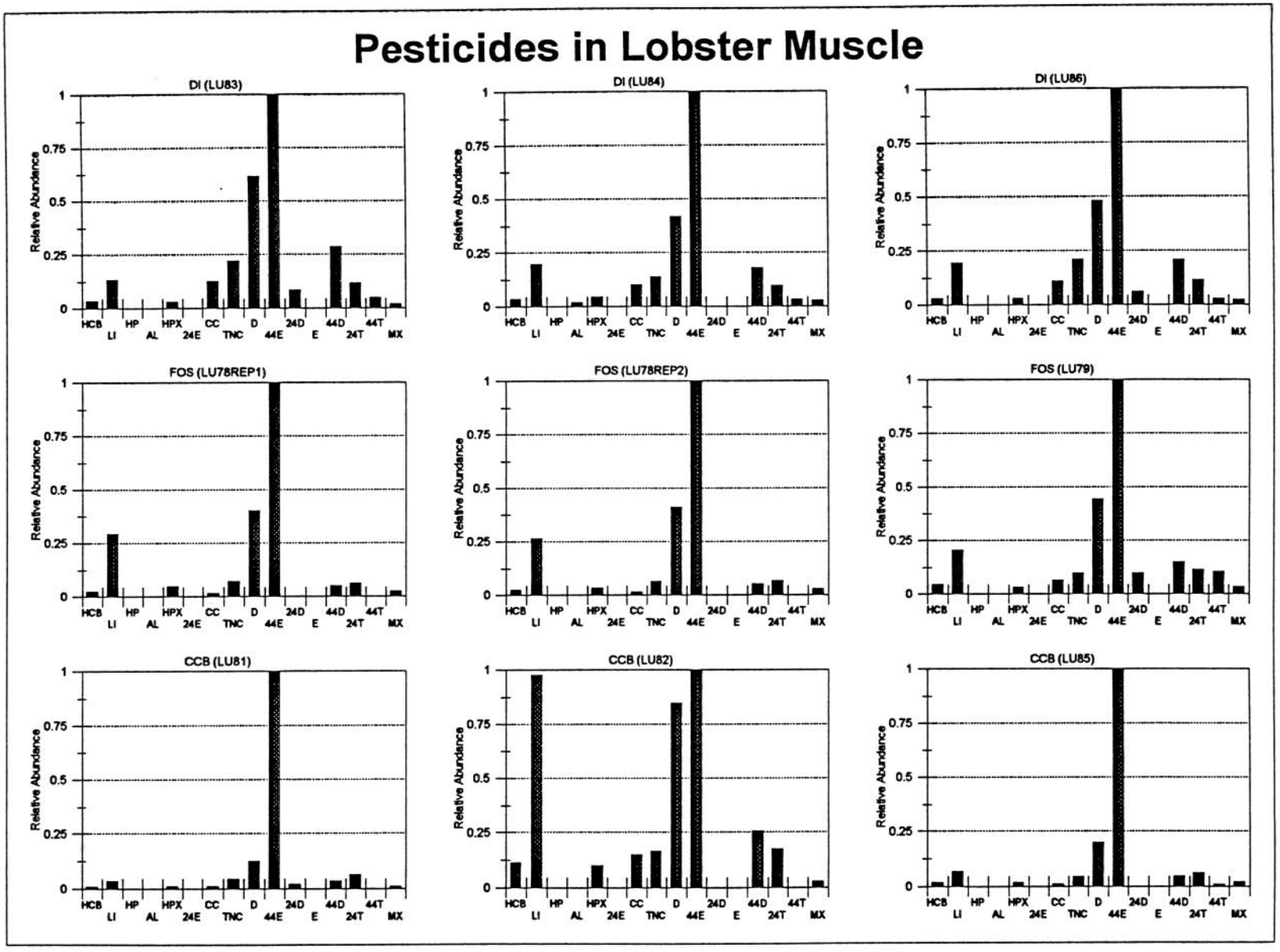


Pesticides in Flounder Liver

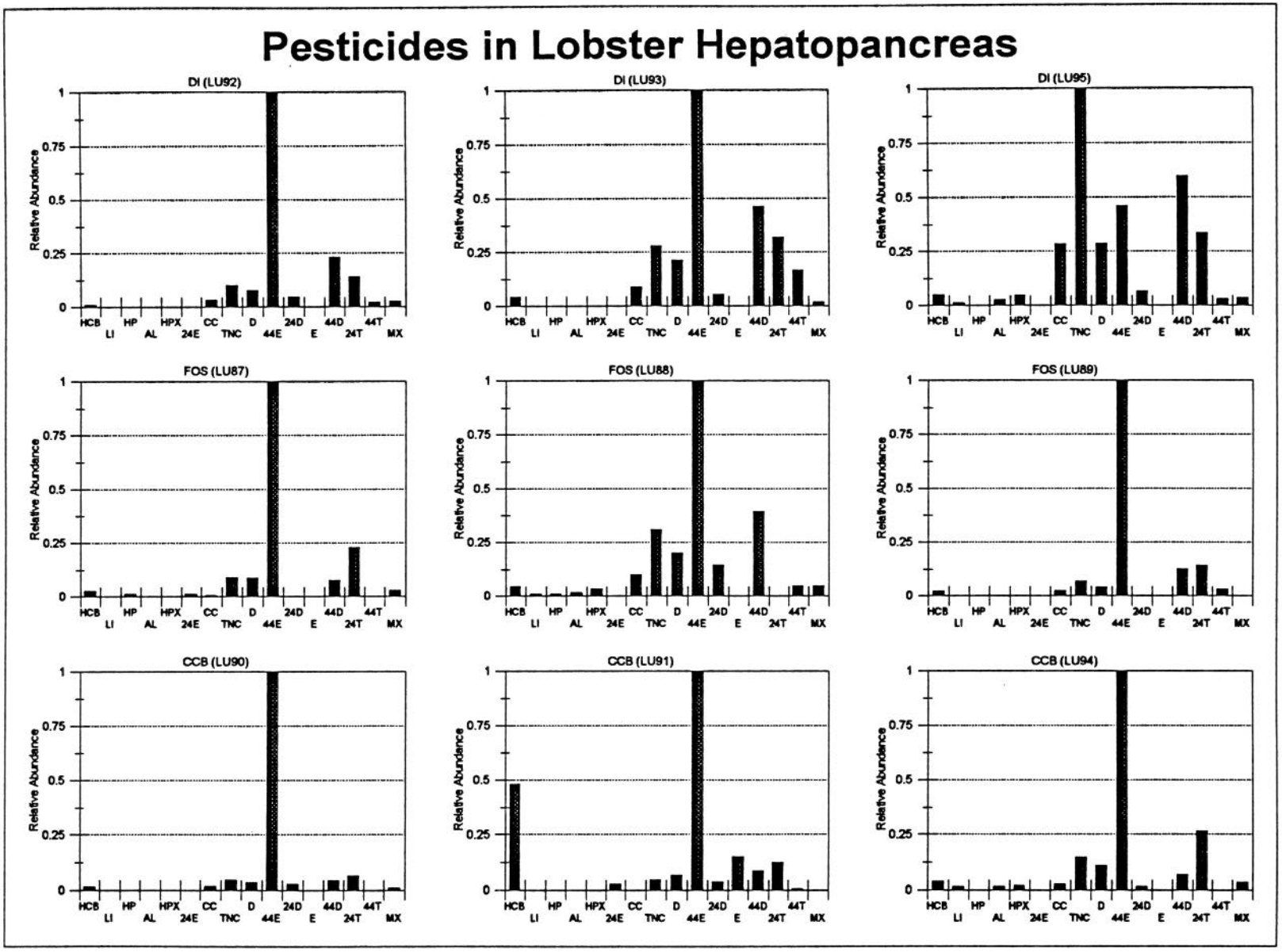


Pesticides in Flounder Liver

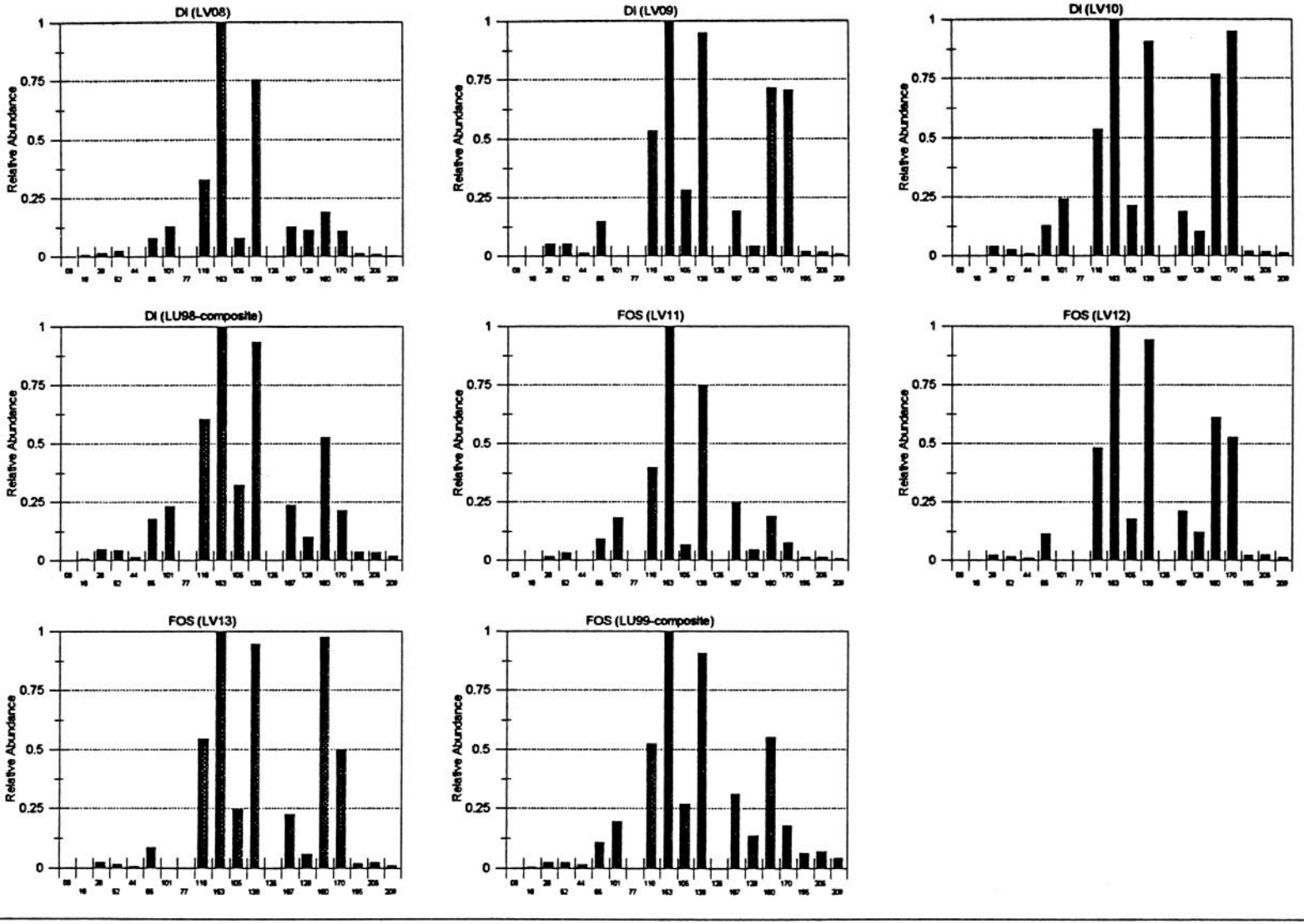



Pesticides in Lobster Muscle
DI (LU83)
DI (LU84)
DI (LU86)
FOS (LU78REP1)
FOS (LU78REP2)
FOS (LU79)
CCB (LU81)
CCB (LU82)
CCB (LU85)
Relative Abundance
0
0.25
0.5
0.75
1
HCB
LI
HP
AL
HPX
24E
CC
TNC
D
44E
24D
E
44D
24T
44T
MX

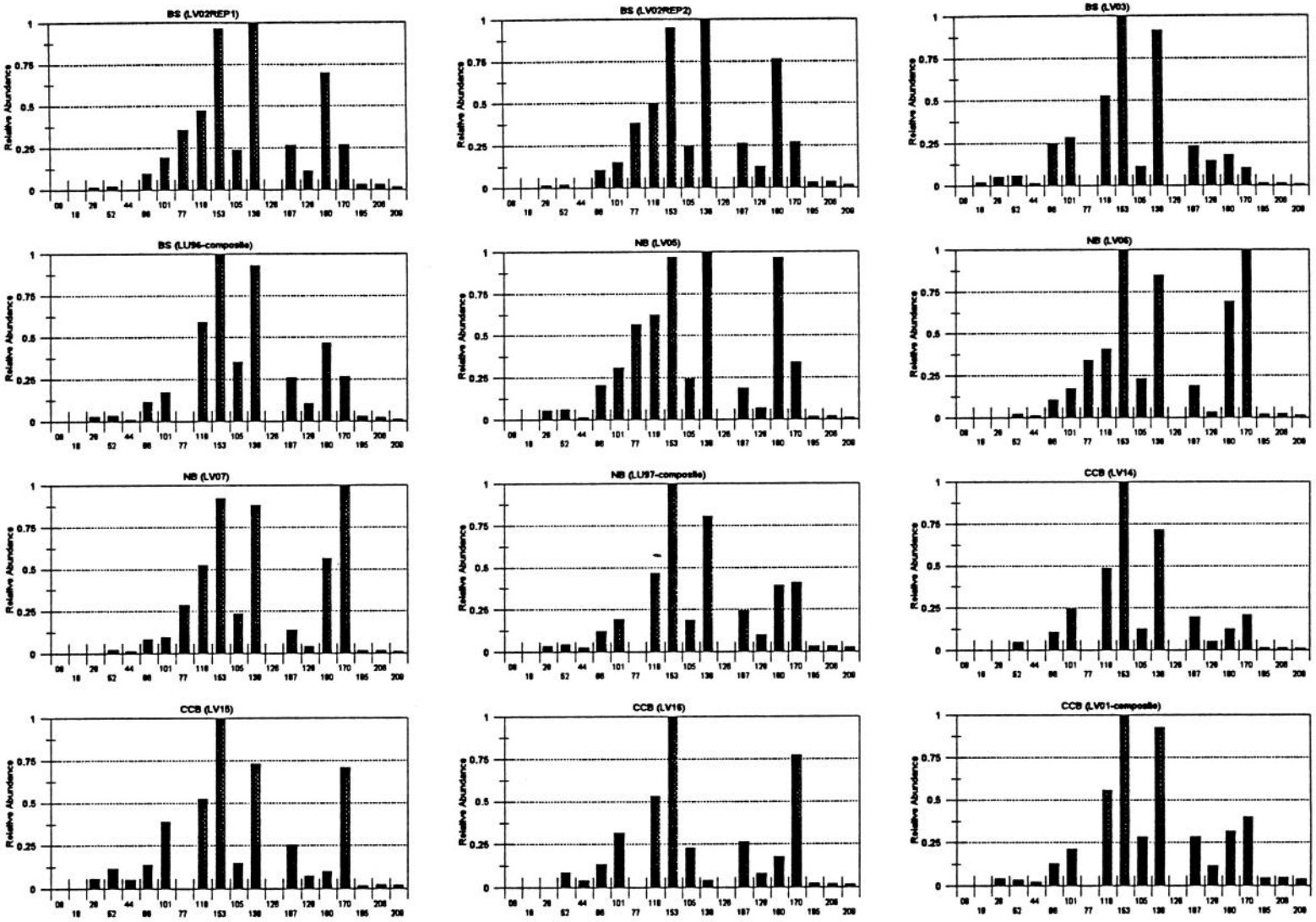
Pesticides in Lobster Hepatopancreas

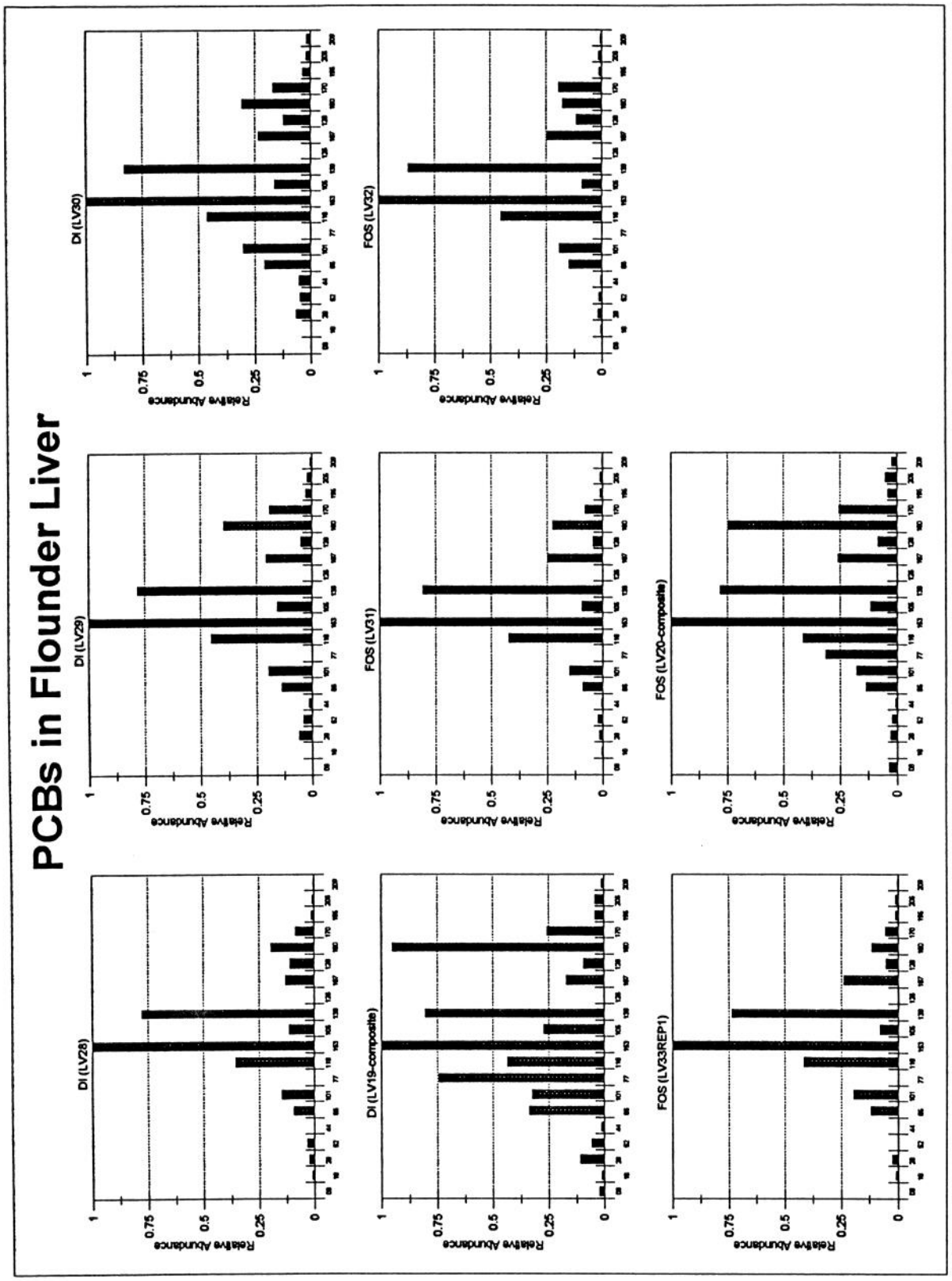


PCBs in Flounder Muscle

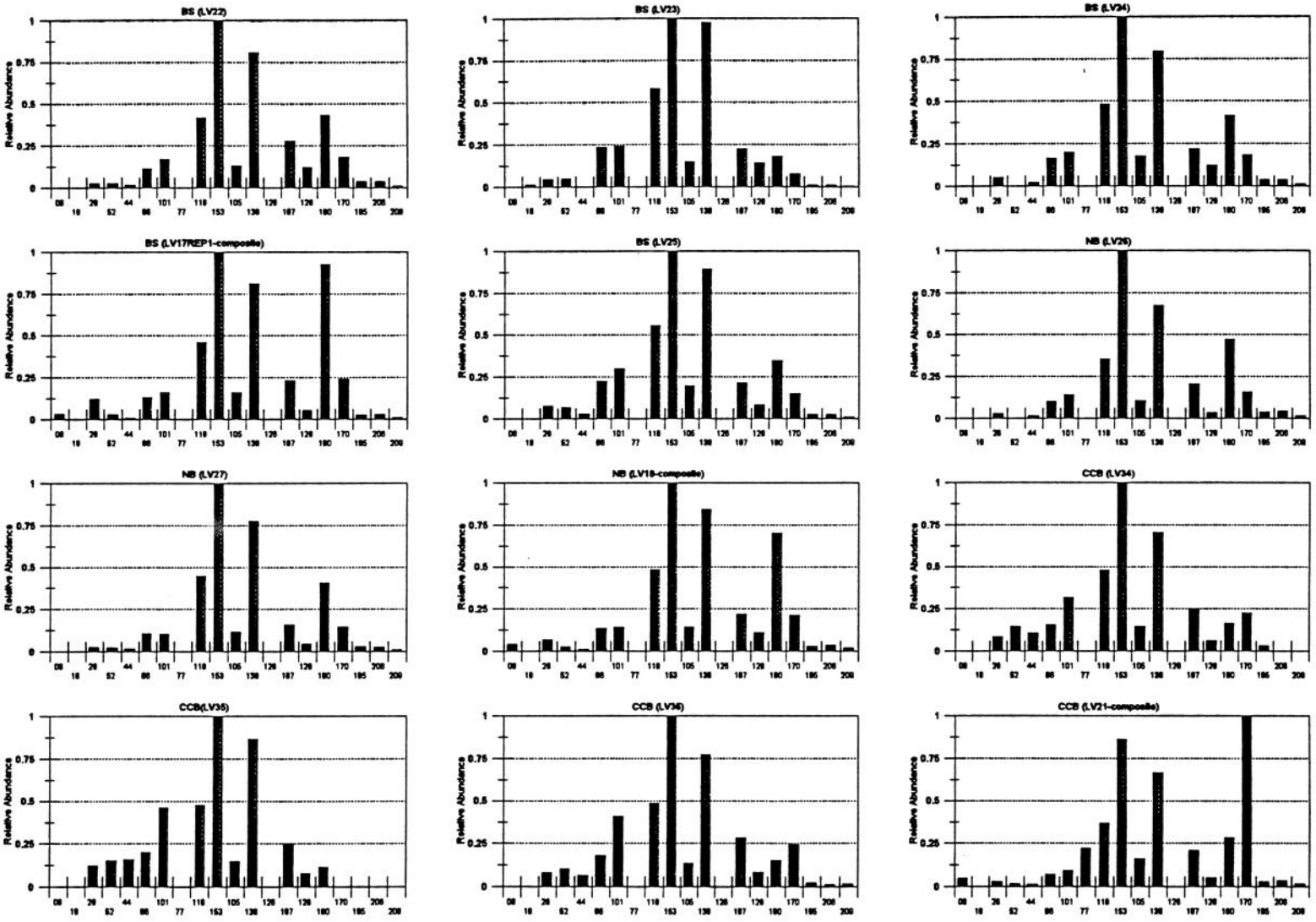


PCBs in Flounder Muscle

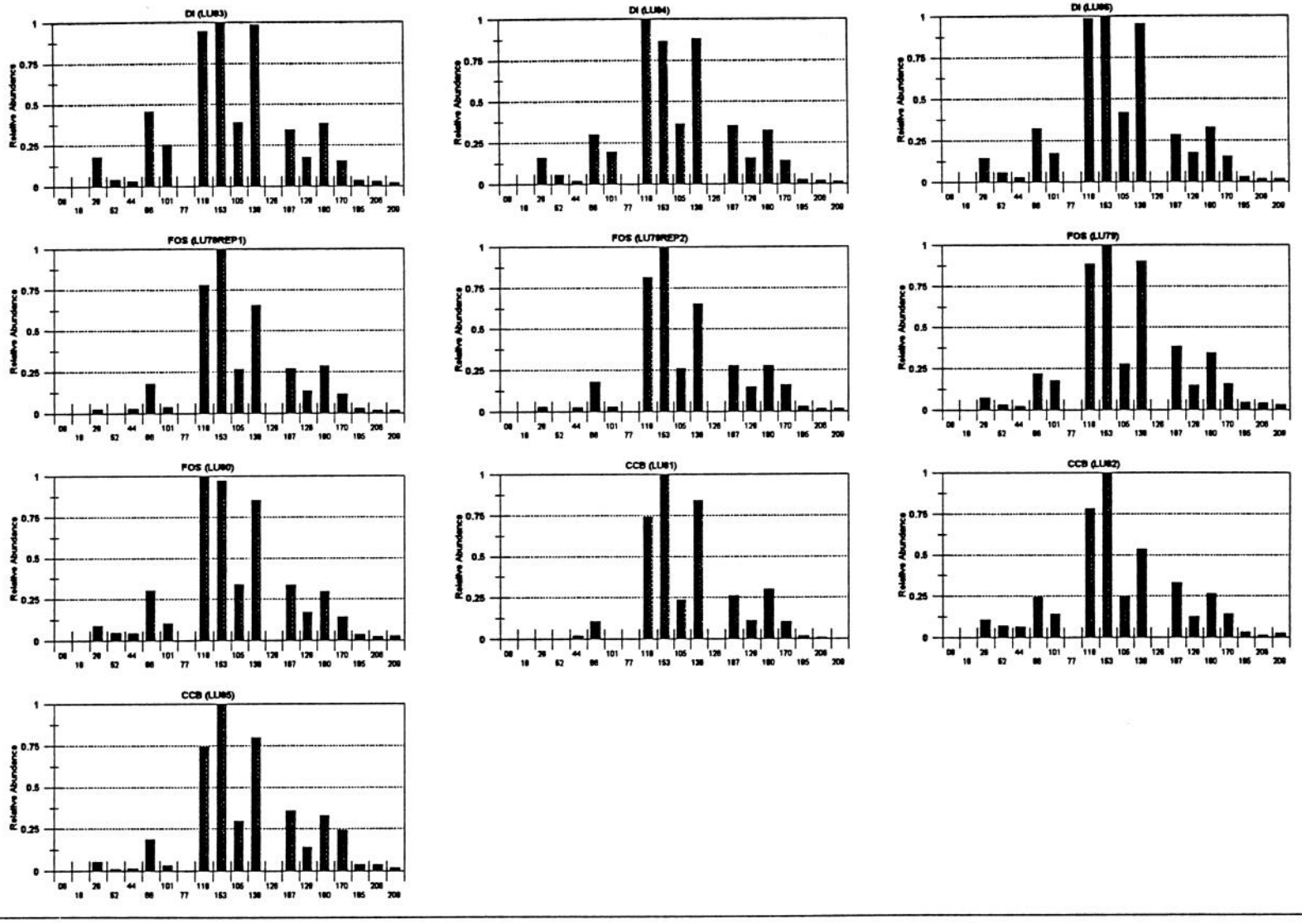


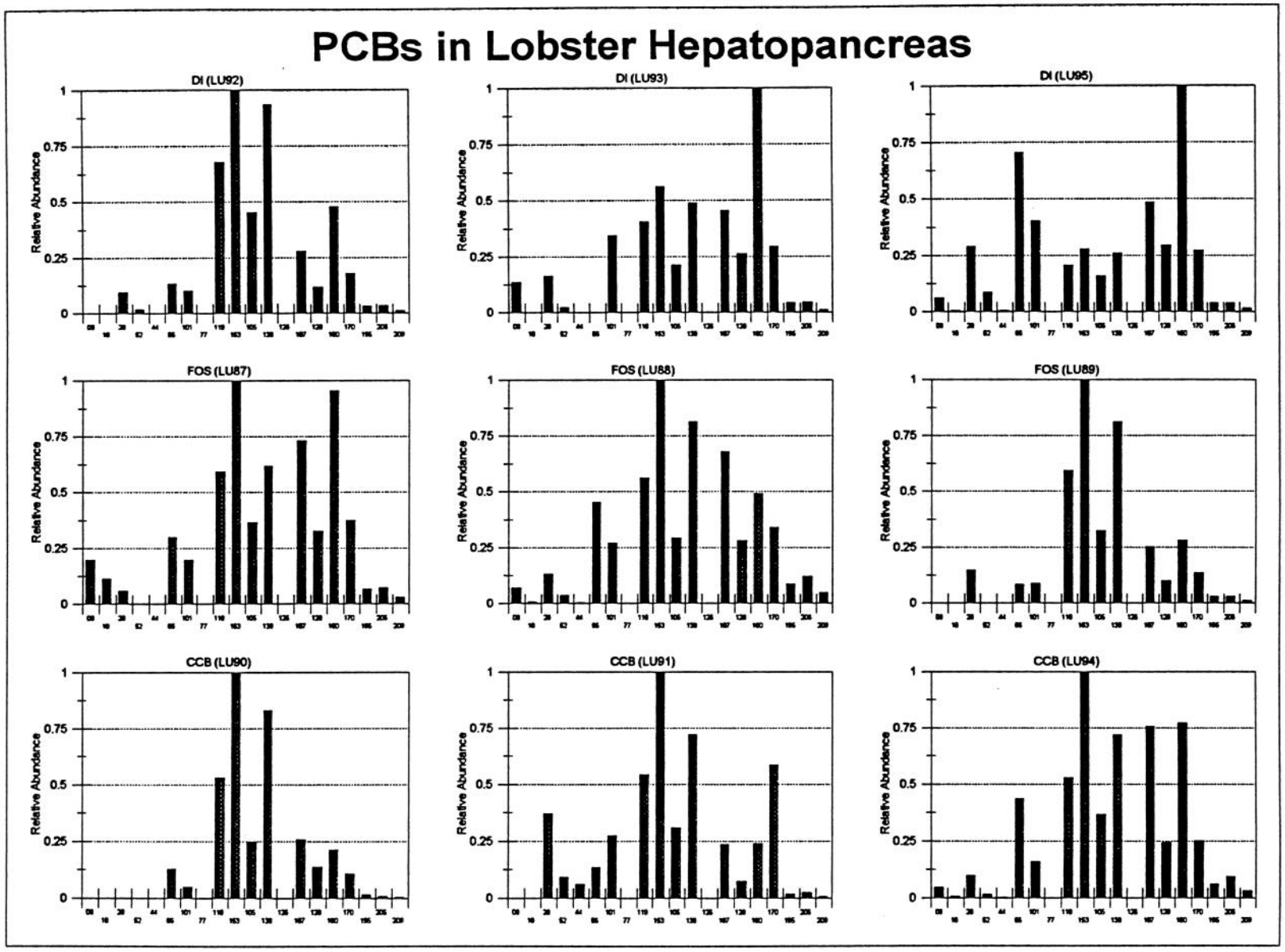

PCBs in Flounder Liver
DI (LV28)
DI (LV29)
DI (LV30)
DI (LV19-composite)
FOS (LV31)
FOS (LV32)
FOS (LV33REP1)
FOS (LV20-composite)
Relative Abundance
0
0.25
0.5
0.75
1

PCBs in Flounder Liver



PCBs in Lobster Muscle




PCBs in Lobster Hepatopancreas
DI (LU92)
DI (LU93)
DI (LU95)
FOS (LU87)
FOS (LU88)
FOS (LU89)
CCB (LU90)
CCB (LU91)
CCB (LU94)
Relative Abundance
0
0.25
0.5
0.75
1

Results of Metal Analysis for Fish and Lobster Tissue (ug/g)

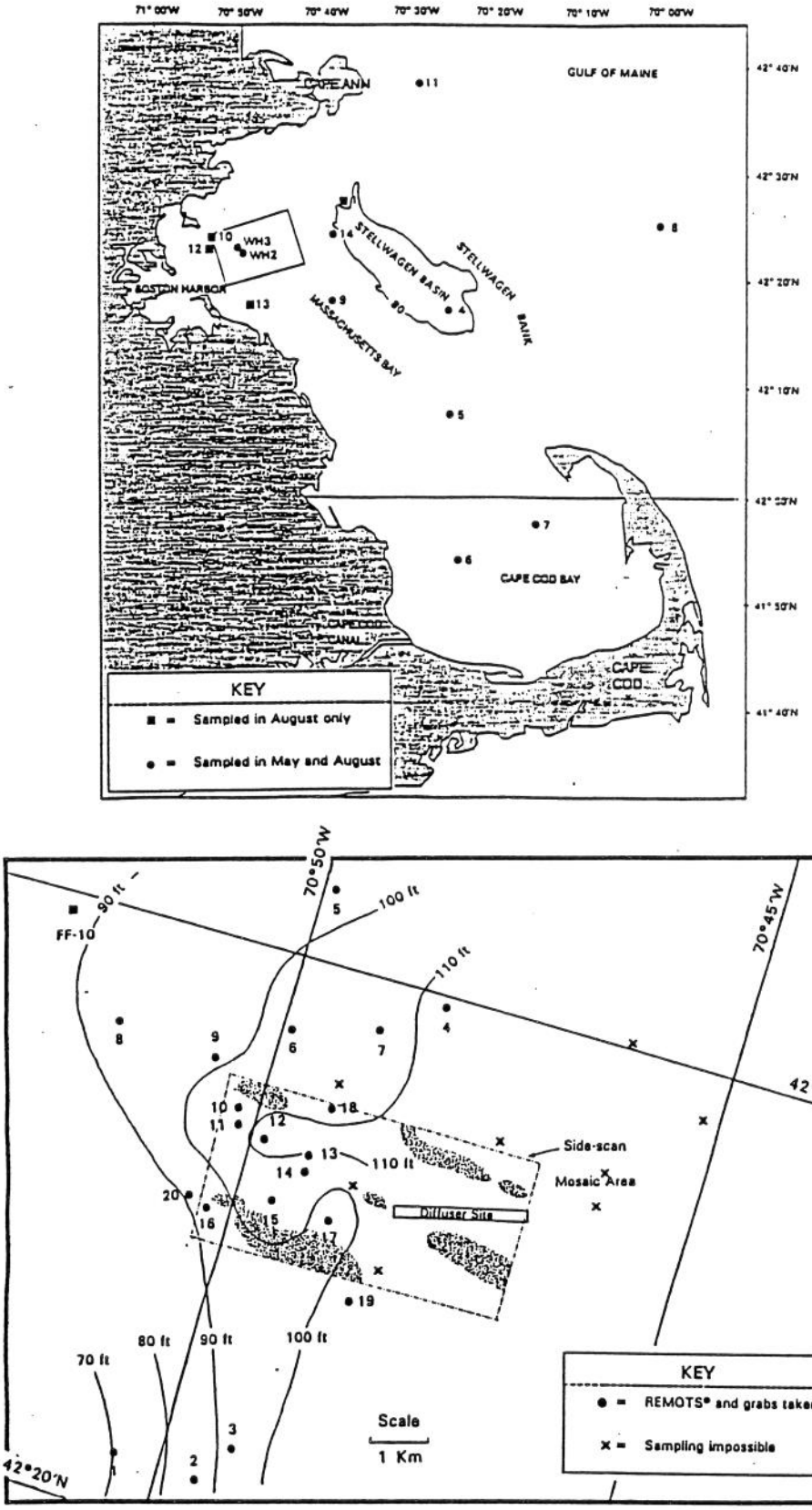
Individual Animals

Location	Sample ID	Hg	Cd	Pb	Ag	Cr	Cu	Ni	Zn
					Lobster Hepatopancreas				
Future Outfall Site	LU87	0.37	16.80	0.22	3.20	2.73	31	0.46	73
	LU88	1.07	14.10	0.47	3.89	5.43	1185	3.57	158
	LU89	0.18	8.01	0.14	3.46	1.92	106	0.78	101
	FOS-AVG	0.54	12.97	0.28	3.52	3.36	441	1.60	111
	FOS-STD	0.39	3.68	0.14	0.28	1.50	527	1.39	35
Cape Cod Bay	LU90	0.42	45.20	12.90	5.61	2.55	1560	1.20	141
	LU91	0.17	6.57	0.08	2.00	2.11	23	0.30	38
	LU94	0.68	29.60	0.49	2.97	1.61	1460	1.36	123
	CCB-AVG	0.42	27.12	4.49	3.53	2.09	1014	0.95	101
	CCB-STD	0.21	15.87	5.95	1.53	0.38	702	0.47	45
Deer Island	LU92	0.20	11.00	0.51	2.79	2.93	647	1.63	104
	LU93	0.23	87.90	0.30	9.95	3.55	2	0.44	51
	LU95	0.30	5.55	0.31	2.47	2.25	49	0.32	75
	DI-AVG	0.24	34.82	0.37	5.07	2.91	233	0.80	77
	DI-STD	0.04	37.60	0.10	3.45	0.53	294	0.59	22
					Flounder Liver				
Broad Sound	LV22	0.89	2.22	3.49	2.74	0.14	35	1.12	146
	LV23	1.04	0.72	0.55	0.41	0.06	11	0.38	130
	LV24	1.07	3.82	15.41	7.92	0.31	50	2.95	164
	BS-AVG	1.00	2.25	6.48	3.69	0.17	32	1.48	147
	BS-STD	0.08	1.27	6.43	3.14	0.10	16	1.08	14
Nantasket Beach	LV25	1.05	1.91	9.20	4.79	<0.10	127	0.41	119
	LV26	0.72	1.28	1.62	3.74	<0.12	40	0.49	119
	LV27	0.34	0.59	1.08	0.87	<0.06	20	0.48	120
	NB-AVG	0.70	1.26	3.97	3.13	0.00	62	0.46	119
	NB-STD	0.29	0.54	3.71	1.66	0.00	47	0.03	0
Deer Island	LV28	1.82	2.10	0.90	0.94	0.35	15	0.82	106
	LV29	0.78	0.65	1.40	0.91	0.07	25	0.33	118
	LV30	0.78	2.83	7.12	7.89	0.11	211	1.95	128
	DI-AVG	1.13	1.86	3.14	3.25	0.18	83	1.04	117
	DI-STD	0.49	0.91	2.82	3.28	0.12	90	0.68	9
Future Outfall Site	LV31	0.63	0.55	4.07	1.92	0.05	45	0.27	157
	LV32	0.34	2.84	4.10	4.36	0.09	142	1.52	174
	LV33-AVG	0.82	1.13	0.68	6.53	<0.04	84	0.37	167
	FOS-AVG	0.60	1.51	2.95	4.27	0.05	90	0.72	166
	FOS-STD	0.20	0.97	1.61	1.88	0.04	40	0.57	7
Cape Cod Bay	LV34	0.23	0.20	7.87	2.12	0.11	22	0.46	164
	LV35	0.09	0.19	3.46	7.06	<0.05	85	0.19	165
	LV36	0.13	0.27	1.12	3.46	<0.04	42	0.30	140
	CCB-AVG	0.15	0.22	4.15	4.21	0.04	50	0.32	156
	CCB-STD	0.06	0.04	2.80	2.09	0.05	26	0.11	12
					Composite Samples				
					Flounder Liver				
Broad Sound	LV17-AVG	1.21	1.93	2.76	2.29	0.07	53	0.41	128
Nantasket Beach	LV18	0.83	1.50	1.66	2.23	0.10	54	0.48	166
Deer Island	LV19	0.62	3.55	1.59	0.89	0.41	15	0.25	119
Future Outfall Site	LV20	0.45	2.77	4.29	6.26	0.08	96	1.03	155
Cape Cod Bay	LV21	0.66	1.37	12.57	5.22	0.06	141	0.50	164

Results of Mercury Analysis in Flounder and Lobster Muscle Tissue (ug/g)

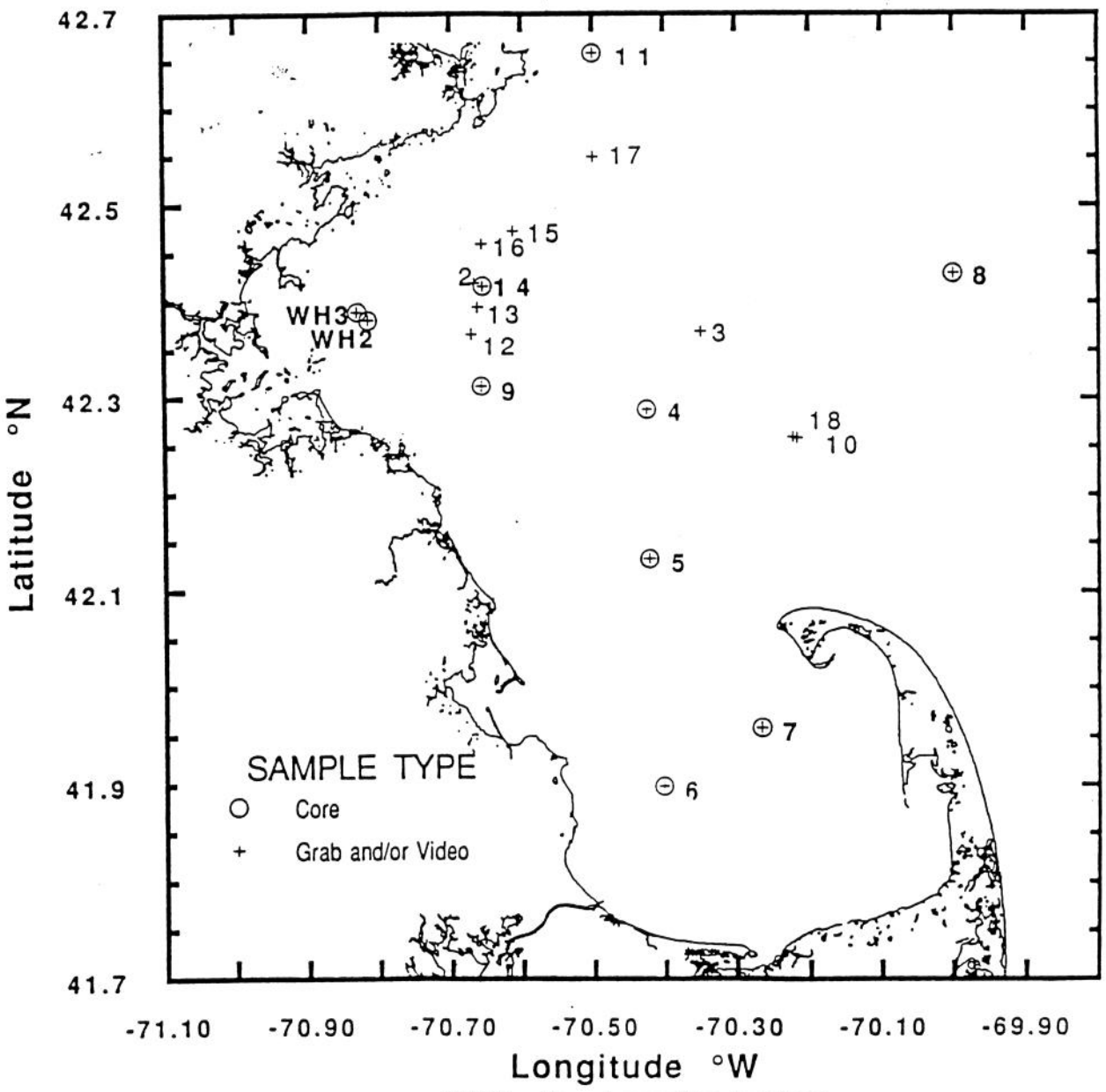
Location	Sample ID	Hg (ug/g)
	Lobster	
Future Outfall Site	LU78-AVG	0.73
	LU79	0.66
	LU80	1.18
	FOS-AVG	0.85
	FOS-STD	0.23
Cape Cod Bay	LU81	0.38
	LU82	1.16
	LU85	1.23
	CCB-AVG	0.92
	CCB-STD	0.39
Deer Island	LU83	0.98
	LU84	0.87
	LU86	1.83
	DI-AVG	1.23
	DI-STD	0.43
	Flounder	
Broad Sound	LV02-AVG	0.63
	LV03	0.75
	LV04	0.33
	BS-AVG	0.57
	BS-STD	0.18
Cape Cod Bay	LV14	0.02
	LV15	0.03
	LV16	0.08
	CCB-AVG	0.04
	CCB-STD	0.03
Nantasket Beach	LV05	0.61
	LV06	0.43
	LV07	0.45
	NB-AVG	0.50
	NB-STD	0.08
Deer Island	LV08	0.71
	LV09	0.41
	LV10	0.49
	DI-AVG	0.53
	DI-STD	0.13
Future Outfall Site	LV11	0.52
	LV12	0.25
	LV13	1.27
	FOS-AVG	0.68
	FOS-STD	0.43
	Flounder Composite	
Broad Sound	LU96	0.57
Nantasket Beach	LU97	0.56
Deer Island	LU98	0.17
Future Outfall Site	LU99	0.38
Cape Cod Bay	LV01	0.12

Chemistry Data from Sediment Monitoring



Locations of sediment stations, 1992. The top map shows the far-field stations; the rectangular box represents the nearfield monitoring area shown in detail the map at the bottom. See Blake *et al.* (1993b) for details on the locations.

Locations of Sediment Samples Collected May 16-21, 1992 Aboard the R.V. ARGO MAINE



USGS sediment sampling locations.

Results of Farfield Sediment Analysis (ng/g - dry weight)

Station:	FF01	FF01	FF04	FF05	FF05	FF06	FF07	FF08	FF09	FF10
Sample ID (MB):	FF1-1	FF1-2	FF4-1	FF5-1	FF5-2	FF6-1	FF7-2	FF8-1	FF9-2	FF10-1
Total Organic Carbon (%):	2.3	2	2.3	1.2	1.3	1.2	2.4	1.6	0.7	0.7
naphthalene	64.00	58.05	65.60	50.47	55.17	48.80	61.95	49.34	67.03	57.77
C1-naphthalenes	29.80	27.03	6.36	4.96	8.18	10.97	7.71	8.14	7.21	9.00
C2-naphthalenes	39.25	36.00	7.28	7.50	10.20	13.95	10.22	13.86	8.08	11.25
C3-naphthalenes	39.77	35.53	9.11	8.27	10.87	15.32	11.17	11.37	7.11	11.78
C4-naphthalenes	25.77	24.51	5.17	2.99	2.61	8.85	3.87	7.32	3.87	6.83
biphenyl	11.96	10.59	1.94	1.91	3.06	3.71	2.83	3.52	2.00	2.69
acenaphthylene	36.67	32.08	7.33	5.93	6.55	9.40	7.22	9.33	4.85	11.45
acenaphthene	67.52	62.51	66.84	59.64	62.62	56.01	64.62	46.90	67.31	63.54
dibenzofuran	16.88	15.02	4.29	3.77	5.33	7.20	6.02	5.23	3.28	5.57
fluorene	26.60	23.74	7.42	6.14	7.08	10.18	8.82	5.34	4.41	11.02
C1-fluorenes	18.90	17.09	4.86	4.00	5.08	7.92	6.06	5.25	3.41	7.15
C2-fluorenes	36.97	31.47	9.07	6.78	9.13	13.08	9.97	10.55	5.63	9.07
C3-fluorenes	24.06	3.96	4.43	2.99	2.61	3.01	3.87	7.32	2.32	2.28
phenanthrene	232.32	207.19	73.05	56.91	60.51	88.70	77.21	44.79	35.72	95.93
anthracene	53.90	46.02	12.35	10.19	10.91	19.06	13.17	7.95	6.42	28.99
C1-phenanthrene/anthracenes	181.96	160.39	48.27	34.88	41.75	60.47	50.72	34.53	24.33	56.31
C2-phenanthrene/anthracenes	149.40	132.52	35.57	26.65	35.15	46.28	37.20	40.35	18.46	35.62
C3-phenanthrene/anthracenes	86.71	69.39	22.39	16.55	19.33	29.43	24.60	16.03	8.93	16.60
C4-phenanthrene/anthracenes	145.13	132.27	31.42	26.05	32.92	43.10	41.62	30.31	16.10	33.51
dibenzothiophene	17.59	15.47	4.97	4.09	4.82	6.73	5.57	3.77	2.86	6.19
C1-dibenzothiophenes	31.15	25.86	7.37	5.65	7.51	9.64	7.64	5.85	4.49	7.65
C2-dibenzothiophenes	47.48	40.83	10.51	7.98	10.89	14.22	11.24	8.23	6.11	9.00
C3-dibenzothiophenes	37.96	37.79	10.93	6.57	8.10	13.46	8.93	7.82	4.94	7.84
fluoranthene	404.22	365.03	120.42	95.44	106.93	153.90	135.36	88.45	64.13	166.80
pyrene	379.72	347.90	108.79	3.61	93.73	139.57	118.96	70.81	61.09	161.52
C1-fluoranthene/pyrenes	279.34	257.68	72.74	53.19	60.64	91.37	73.67	47.88	39.57	94.82
benz[a]anthracene	211.49	180.98	49.95	38.36	43.52	64.44	56.94	23.41	53.94	99.85
chrysene	256.90	217.70	62.94	46.93	59.32	75.57	71.66	34.18	70.13	110.94
C1-chrysenes	190.44	166.80	39.87	31.40	39.11	52.28	45.33	20.90	43.97	62.15
C2-chrysenes	97.91	82.34	21.25	17.88	21.57	30.21	25.49	17.84	20.70	26.06
C3-chrysenes	31.03	26.84	5.85	2.99	7.34	9.48	7.83	6.98	6.38	7.74
C4-chrysenes	4.25	3.96	4.43	2.99	2.61	3.01	3.87	7.32	2.32	2.28
benzo[b]fluoranthene	313.91	272.77	76.66	60.74	72.30	88.45	88.31	62.18	91.55	128.41
benzo[k]fluoranthene	91.52	74.77	19.85	17.30	29.10	37.04	28.13	15.48	34.15	47.75
benzo[e]pyrene	164.42	137.76	37.40	30.30	38.21	47.51	43.32	32.72	50.97	71.01
benzo[a]pyrene	235.96	187.51	63.37	53.58	53.80	65.74	58.42	61.99	35.44	85.45
perylene	61.31	56.88	10.87	9.45	12.23	14.77	14.50	14.24	12.07	22.61
indeno[1,2,3-c,d]pyrene	164.70	139.02	36.34	31.69	41.16	49.18	43.94	36.93	54.62	79.02
dibenz[a,h]anthracene	29.34	25.43	6.83	5.49	7.22	9.03	7.91	6.20	9.62	14.32
benzo[g,h,i]perylene	153.25	129.74	33.68	28.38	37.06	44.52	38.85	36.68	48.92	71.59
Total PAH	4491.45	3918.41	1227.78	890.59	1146.22	1515.54	1344.70	967.29	1014.42	1759.35
phenyl decane	10.63 *	9.89 *	11.07 *	7.48 *	6.54 *	7.51 *	9.67 *	18.29 *	10.24	10.55
phenyl undecane	10.63 *	9.89 *	11.07 *	7.48 *	6.54 *	7.51 *	9.67 *	18.29 *	15.70	14.43
phenyl dodecane	10.63 *	9.89 *	11.07 *	7.48 *	6.54 *	7.51 *	9.67 *	18.29 *	8.27	10.82
phenyl tridecane	10.63 *	9.89 *	11.07 *	7.48 *	6.54 *	7.51 *	9.67 *	19.34 *	7.48	5.89
phenyl tetradecane	10.63 *	9.89 *	11.07 *	7.48 *	6.54 *	7.51 *	9.67 *	18.29 *	7.19	9.36
Total LAB	NA	NA	NA	NA	NA	NA	NA	NA	48.87	51.05

* = Method Detection Limit (MDL)
NA = Not Applicable

Results of Farfield Sediment Analysis (ng/g - dry weight)

Station:	FF10	FF11	FF12	FF12	FF13	FF13	FF14
Sample ID (MB):	FF10-2	MBFF11-1	FF12-1	FF12-2	MBFF13-1	FF13-2	FF14-2
Total Organic Carbon (%):	0.8	2.3	0.8	0.9	1.4	1.2	1.8
naphthalene	41.08	53.66	47.34	66.61	39.07	37.73	54.83
C1-naphthalenes	7.81	21.25	6.25	24.96	10.41	4.57	19.20
C2-naphthalenes	12.88	30.09	8.66	35.01	17.50	7.53	23.77
C3-naphthalenes	15.42	31.47	11.20	38.15	19.80	9.03	22.74
C4-naphthalenes	2.36	20.78	6.80	23.27	4.30	2.81	14.84
biphenyl	2.41	8.20	1.76	6.50	3.65	1.35	7.47
acenaphthylene	18.16	28.91	6.88	22.78	15.76	6.25	20.51
acenaphthene	52.98	60.16	51.58	72.70	44.01	42.91	57.74
dibenzofuran	6.04	12.05	2.83	13.38	6.20	1.41	12.61
fluorene	12.88	20.96	5.43	24.97	10.27	3.87	16.50
C1-fluorenes	8.70	15.14	5.48	20.53	9.38	4.01	11.72
C2-fluorenes	13.04	28.03	9.65	31.42	18.43	10.39	20.50
C3-fluorenes	2.36	3.37	5.37	18.95	4.30	2.81	3.32
phenanthrene	115.83	185.60	51.14	210.73	97.49	8.99	147.81
anthracene	35.50	42.74	22.99	64.06	25.16	8.99	32.40
C1-phenanthrene/anthracenes	75.95	148.05	49.96	164.89	63.12	23.45	106.73
C2-phenanthrene/anthracenes	51.84	126.25	37.82	122.46	53.14	24.52	82.57
C3-phenanthrene/anthracenes	26.55	58.93	20.60	61.58	27.52	13.58	41.04
C4-phenanthrene/anthracenes	48.23	87.62	33.64	86.48	58.24	25.27	73.28
dibenzothiophene	7.33	13.73	3.52	15.47	6.08	2.55	10.75
C1-dibenzothiophenes	10.55	23.95	7.10	26.50	10.24	4.41	17.75
C2-dibenzothiophenes	12.75	34.84	9.76	35.88	13.06	6.47	26.02
C3-dibenzothiophenes	9.81	30.44	9.65	32.85	12.77	7.10	21.85
fluoranthene	196.33	322.36	116.46	339.58	176.36	61.52	255.45
pyrene	190.34	318.08	117.07	351.25	162.50	59.17	249.17
C1-fluoranthene/pyrenes	117.34	233.84	89.37	239.36	106.02	40.84	171.17
benz[a]anthracene	96.81	171.16	56.99	179.36	65.52	23.38	126.32
chrysene	102.36	182.39	58.88	181.41	77.14	26.70	146.66
C1-chrysenes	64.52	141.19	41.14	136.66	46.54	19.31	106.86
C2-chrysenes	29.60	71.87	20.21	73.08	25.33	13.27	54.99
C3-chrysenes	9.37	21.96	7.05	22.87	12.76	6.56	16.12
C4-chrysenes	2.36	3.37	2.27	2.41	4.30	2.81	3.32
benzo[b]fluoranthene	124.02	234.19	74.84	227.37	101.49	38.51	193.04
benzo[k]fluoranthene	43.74	81.14	19.16	77.28	38.57	15.33	68.26
benzo[e]pyrene	66.67	126.61	36.35	118.80	51.39	21.60	105.69
benzo[a]pyrene	89.97	171.61	61.90	196.32	80.10	59.02	147.07
perylene	19.68	50.78	11.95	43.42	20.36	7.26	38.88
indeno[1,2,3-c,d]pyrene	70.29	129.23	38.95	119.81	60.84	23.66	104.70
dibenz[a,h]anthracene	14.52	26.14	7.67	26.29	10.84	4.26	21.31
benzo[g,h,i]perylene	65.66	127.06	33.99	111.28	55.51	22.29	99.91
Total PAH	1894.04	3499.18	1209.63	3666.70	1665.46	705.48	2754.85
phenyl decane	9.22	27.98	8.89	24.75	20.33	10.72	22.05
phenyl undecane	11.75	40.78	24.92	88.25	110.85	54.44	26.89
phenyl dodecane	14.43	8.44	31.27	112.75	158.16	83.56	45.07
phenyl tridecane	10.23	8.44	15.10	68.57	105.57	52.40	8.29
phenyl tetradecane	9.21	8.44	22.70	74.24	109.54	57.88	8.29
Total LAB	54.85	94.06	102.87	368.57	504.45	259.01	110.58

* = Method Detection Limit (MDL)
NA = Not Applicable

Results of Nearfield Sediment Analysis (ng/g - dry weight)

Station:	NF01	NF02	NF03	NF04	NF05	NF06	NF07	NF08	NF09	NF10
Sample ID (MB):	NF1	NF2	NF3	NF4	NF5	NF6	NF7	NF8	NF9	NF10
Total Organic Carbon (%):	0.6	2.6	0.8	0.4	0.8	1	1.2	3.2	1	0.8
naphthalene	58.15	59.80	59.01	61.04	57.80	195.47	197.68	236.28	103.23	62.54
C1-naphthalenes	2.66	30.10	9.02	2.71	16.38	63.03	65.16	173.48	37.13	26.36
C2-naphthalenes	3.52	43.57	13.21	2.90	26.09	105.60	146.18	345.27	65.45	37.52
C3-naphthalenes	3.72	45.73	16.40	2.46	40.37	124.27	196.16	397.92	81.36	48.40
C4-naphthalenes	2.54	4.80	8.09	4.82	27.78	75.69	104.27	244.67	46.78	30.84
biphenyl	0.90	8.92	2.57	0.99	4.85	22.29	24.18	1.25	12.54	8.67
acenaphthylene	1.93	27.52	6.23	2.49	59.09	109.04	396.06	229.38	68.09	28.08
acenaphthene	60.87	64.54	63.85	62.00	64.18	51.90	61.67	86.31	62.12	67.64
dibenzofuran	1.46	15.08	6.09	1.54	13.83	51.84	88.60	78.43	24.96	19.39
fluorene	2.14	26.88	11.65	1.91	39.98	123.45	265.10	196.47	69.45	36.43
C1-fluorenes	1.93	21.03	7.90	1.44	32.80	89.08	163.50	159.75	43.23	24.74
C2-fluorenes	3.42	37.44	13.89	2.29	38.98	93.24	175.02	196.81	47.96	35.22
C3-fluorenes	1.99	4.80	8.99	4.82	18.50	91.53	126.54	237.27	56.31	46.06
phenanthrene	17.80	215.62	87.86	13.63	299.02	810.13	1519.99	1311.38	466.08	267.94
anthracene	2.82	72.73	23.60	2.73	267.73	465.67	1031.80	410.29	208.96	85.97
C1-phenanthrene/anthracenes	11.85	156.37	56.60	9.52	237.18	514.95	1081.17	946.94	297.69	176.35
C2-phenanthrene/anthracenes	10.65	122.46	41.55	8.31	140.87	333.63	644.92	730.09	200.31	127.04
C3-phenanthrene/anthracenes	5.64	69.14	19.09	5.09	54.66	131.76	258.98	349.20	87.48	57.40
C4-phenanthrene/anthracenes	11.15	112.28	31.64	8.03	148.27	166.56	546.95	291.12	107.80	50.31
dibenzothiophene	1.37	16.03	5.97	1.31	21.19	58.78	106.42	91.45	29.59	18.69
C1-dibenzothiophenes	1.96	23.98	8.37	1.70	28.44	60.43	113.29	119.60	34.12	20.24
C2-dibenzothiophenes	2.87	35.90	10.91	2.59	33.07	64.41	108.03	167.25	42.28	24.51
C3-dibenzothiophenes	3.01	42.16	9.06	2.51	26.98	44.48	79.06	176.49	34.78	20.03
fluoranthene	33.88	420.60	136.43	26.49	720.24	1339.26	2265.17	1803.47	747.98	430.50
pyrene	31.92	404.26	128.13	26.19	599.44	1150.51	2053.04	1692.60	650.74	406.75
C1-fluoranthene/pyrenes	20.79	264.96	77.26	18.72	446.96	834.83	1850.99	1421.19	495.33	295.14
benz[a]anthracene	32.83	192.66	69.94	28.79	363.28	578.82	1162.08	988.39	342.59	235.10
chrysene	45.14	221.05	77.18	37.73	387.79	545.99	1002.92	911.49	320.39	234.56
C1-chrysenes	27.41	149.65	48.64	22.26	205.17	300.88	615.74	683.46	183.90	136.21
C2-chrysenes	15.85	85.10	26.07	12.52	84.31	163.98	249.30	445.34	104.61	77.79
C3-chrysenes	5.51	32.61	7.76	4.82	22.33	73.12	89.64	180.34	45.67	32.69
C4-chrysenes	1.99	4.80	2.34	4.82	2.45	2.81	4.31	4.52	2.57	2.39
benzo[b]fluoranthene	60.98	318.57	98.31	51.52	478.69	698.00	1222.58	1149.84	414.71	266.42
benzo[k]fluoranthene	20.88	95.52	28.44	17.19	449.41	265.40	391.73	401.82	142.96	110.73
benzo[e]pyrene	32.57	154.72	49.10	27.05	210.68	314.72	536.47	598.41	197.17	142.02
benzo[a]pyrene	25.99	230.49	63.82	29.38	349.13	568.87	1008.19	1013.44	343.98	210.45
perylene	7.30	49.01	14.44	4.74	75.51	141.86	232.65	247.71	81.79	51.24
indeno[1,2,3-c,d]pyrene	34.37	179.40	50.73	25.90	235.09	367.53	630.03	689.98	238.27	165.68
dibenz[a,h]anthracene	6.15	35.25	10.31	5.02	50.12	78.23	144.88	144.69	50.44	34.87
benzo[g,h,i]perylene	28.69	159.04	46.69	23.75	3.14	316.54	510.95	618.14	203.58	142.97
Total PAH	646.63	4254.59	1457.16	573.73	6381.80	11588.59	21471.40	20171.95	6794.37	4295.90
phenyl decane	8.30	96.83	10.91	16.67	6.13	9.65	10.77 *	129.21	7.97	12.48
phenyl undecane	17.44	463.64	26.92	12.16	25.57	37.32	10.77 *	518.35	46.03	35.91
phenyl dodecane	22.31	645.92	29.72	7.71	19.86	24.25	10.77 *	619.86	32.52	31.86
phenyl tridecane	11.64	426.85	13.65	12.05	6.13	13.49	10.77 *	371.26	6.43	16.04
phenyl tetradecane	13.48	411.67	20.19	12.05	6.13	7.02	10.77 *	398.62	6.43	16.89
Total LAB	73.17	2044.91	101.39	60.63	63.82	91.72	NA	2037.29	99.38	113.18

* = Method Detection Limit (MDL)
NA = Not Applicable

Results of Nearfield Sediment Analysis (ng/g - dry weight)

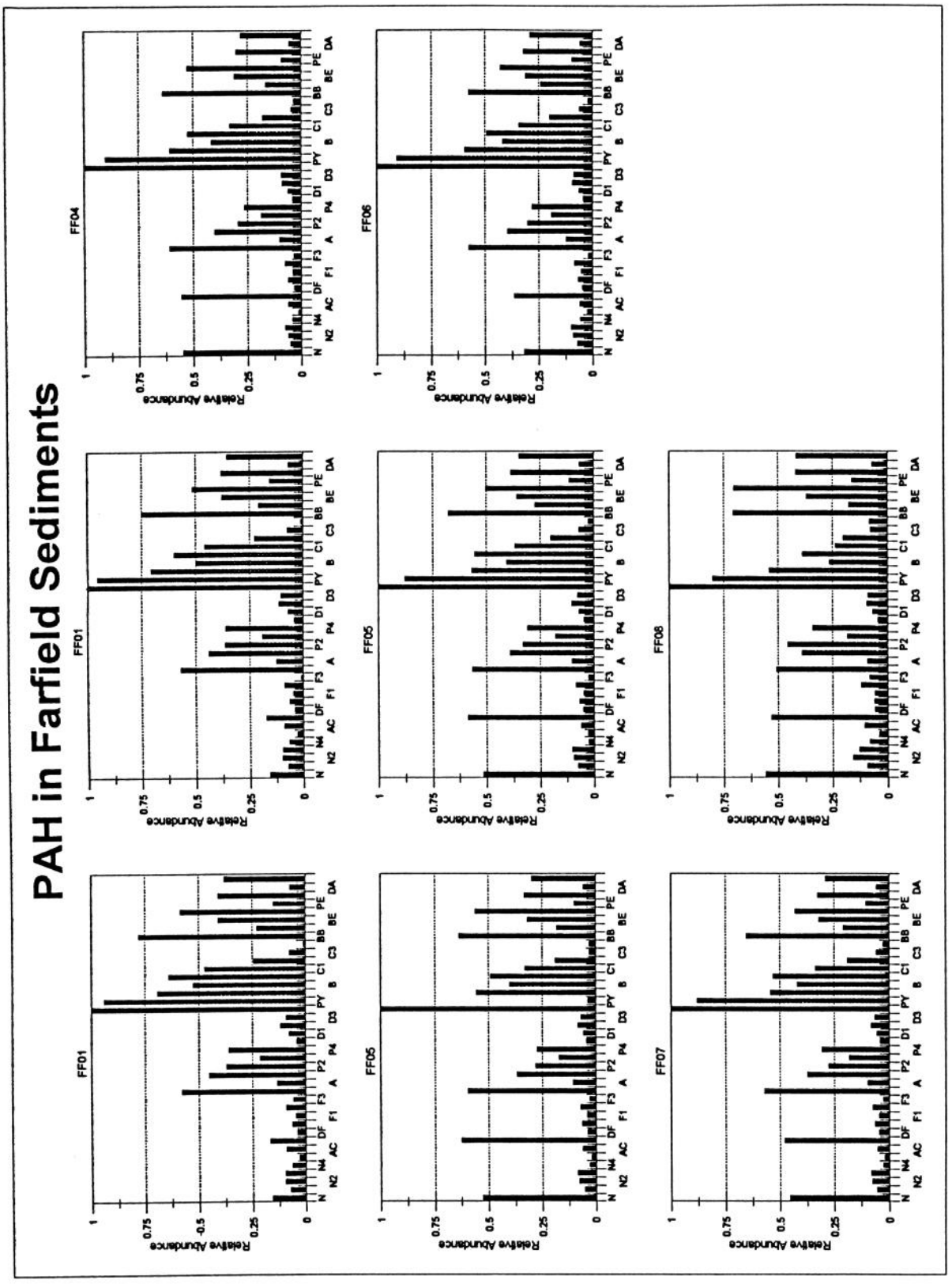
Station:	NF11	NF12	NF13	NF14	NF15	NF16	NF17	NF18	NF19	NF20
Sample ID (MB):	NF11	NF12	NF13	NF14	NF15	NF16	NF17	NF18	NF19	NF20
Total Organic Carbon (%):	0.7	1	0.5	0.9	0.9	2	0.4	0.8	0.5	1.5
naphthalene	41.04	147.06	40.12	61.46	63.24	119.30	40.49	51.17	37.17	272.27
C1-naphthalenes	8.95	64.65	2.28	22.09	38.27	60.01	4.28	22.32	2.00	183.70
C2-naphthalenes	14.72	96.85	3.75	27.42	57.65	111.03	8.56	34.30	2.90	246.79
C3-naphthalenes	19.69	118.51	3.92	33.81	55.56	149.89	7.72	35.11	2.26	216.22
C4-naphthalenes	13.39	75.30	3.10	23.49	27.18	105.54	4.61	20.08	3.35	99.55
biphenyl	2.46	21.01	0.80	6.55	11.24	21.77	1.32	7.05	0.86	65.09
acenaphthylene	10.45	77.77	5.95	44.23	22.09	110.77	3.35	21.16	4.71	65.64
acenaphthene	55.31	80.70	42.42	61.68	97.89	64.60	50.22	64.28	39.75	203.64
dibenzofuran	6.63	55.47	1.65	14.62	62.19	44.22	6.42	16.46	1.49	212.93
fluorene	13.90	109.75	2.80	26.03	110.00	104.59	12.52	32.20	2.26	328.48
C1-fluorenes	10.26	62.04	2.42	16.92	41.10	81.32	4.44	18.70	2.38	104.52
C2-fluorenes	15.06	71.44	3.10	37.27	47.09	111.02	4.61	25.59	3.35	97.70
C3-fluorenes	14.08	96.98	3.10	43.98	19.10	115.08	4.61	31.66	3.35	49.42
phenanthrene	103.91	814.08	22.92	182.72	801.21	770.54	81.90	206.57	19.14	1931.40
anthracene	37.56	302.18	8.13	53.31	231.30	324.22	17.87	83.26	8.50	631.86
C1-phenanthrene/anthracenes	80.16	481.72	16.99	118.06	316.94	567.48	27.65	124.52	14.12	702.31
C2-phenanthrene/anthracenes	65.81	327.06	14.40	101.51	173.50	418.43	13.63	87.06	12.14	369.98
C3-phenanthrene/anthracenes	33.26	139.95	7.02	59.17	65.17	184.82	5.39	36.78	5.51	163.43
C4-phenanthrene/anthracenes	27.60	130.56	12.42	81.13	134.48	169.88	4.61	37.45	11.12	185.36
dibenzothiophene	7.20	56.56	1.62	14.17	52.22	54.59	5.56	15.71	1.33	140.92
C1-dibenzothiophenes	8.68	51.41	2.70	20.30	33.33	63.00	3.30	15.36	2.14	73.34
C2-dibenzothiophenes	11.59	58.96	3.19	40.75	29.42	71.60	3.34	18.33	2.80	72.38
C3-dibenzothiophenes	9.25	47.69	2.44	35.00	19.72	60.83	2.30	15.78	2.41	52.79
fluoranthene	182.96	1165.90	43.01	577.96	805.10	1389.80	74.69	297.80	36.10	1830.78
pyrene	171.50	1077.47	41.33	458.99	686.40	1289.09	58.90	271.93	34.28	1591.60
C1-fluoranthene/pyrenes	139.21	761.29	30.09	389.94	402.23	952.10	35.37	195.20	26.85	908.35
benz[a]anthracene	77.65	526.77	17.06	342.18	259.44	666.86	29.53	146.92	14.72	774.60
chrysene	81.48	542.57	17.75	335.58	259.87	658.19	29.70	148.69	16.23	780.77
C1-chrysenes	50.64	290.25	12.21	181.21	144.05	363.11	12.78	83.06	10.73	355.14
C2-chrysenes	38.77	149.95	6.22	99.92	65.34	229.38	7.43	51.35	5.13	201.68
C3-chrysenes	16.93	68.53	3.28	38.62	25.15	88.24	4.61	20.92	3.35	85.24
C4-chrysenes	2.21	2.52	3.10	2.12	3.60	3.95	4.61	2.22	3.35	3.06
benzo[b]fluoranthene	91.63	635.35	23.94	402.99	292.47	820.57	31.10	195.04	22.12	877.08
benzo[k]fluoranthene	39.56	213.87	7.37	147.28	87.75	327.83	17.37	66.15	7.79	290.86
benzo[e]pyrene	46.81	313.45	12.88	183.75	138.11	393.72	17.34	95.21	10.44	409.08
benzo[a]pyrene	79.01	520.53	57.91	238.25	251.99	672.56	54.12	146.03	54.55	723.47
perylene	18.08	114.89	4.18	68.52	54.81	165.81	5.54	37.89	3.54	187.41
indeno[1,2,3-c,d]pyrene	52.12	348.43	13.11	207.85	153.44	461.28	18.88	111.46	10.04	490.51
dibenz[a,h]anthracene	10.94	71.41	2.94	43.90	15.39	96.31	3.68	22.09	2.11	95.20
benzo[g,h,i]perylene	46.75	304.83	13.58	175.77	142.76	418.65	5.90	97.74	11.84	420.71
Total PAH	1757.20	10595.66	517.19	5020.50	6297.76	12882.01	730.24	3010.61	458.21	16495.24
phenyl decane	5.52	64.88	7.74 *	5.29	9.00	47.60	13.55	13.44	8.37 *	37.66
phenyl undecane	9.87	37.24	7.74 *	33.56	9.00	173.38	25.47	45.68	8.37 *	178.99
phenyl dodecane	7.39	49.32	6.47	40.76	26.34	195.81	15.39	30.97	5.61	157.53
phenyl tridecane	5.52	26.10	8.75	5.29	23.82	106.71	11.52	30.39	10.79	100.16
phenyl tetradecane	5.52	33.90	4.22	5.29	12.67	97.56	11.52	34.14	8.37	111.46
Total LAB	33.80	211.44	34.92	90.20	80.82	621.06	77.44	154.62	41.49	585.80

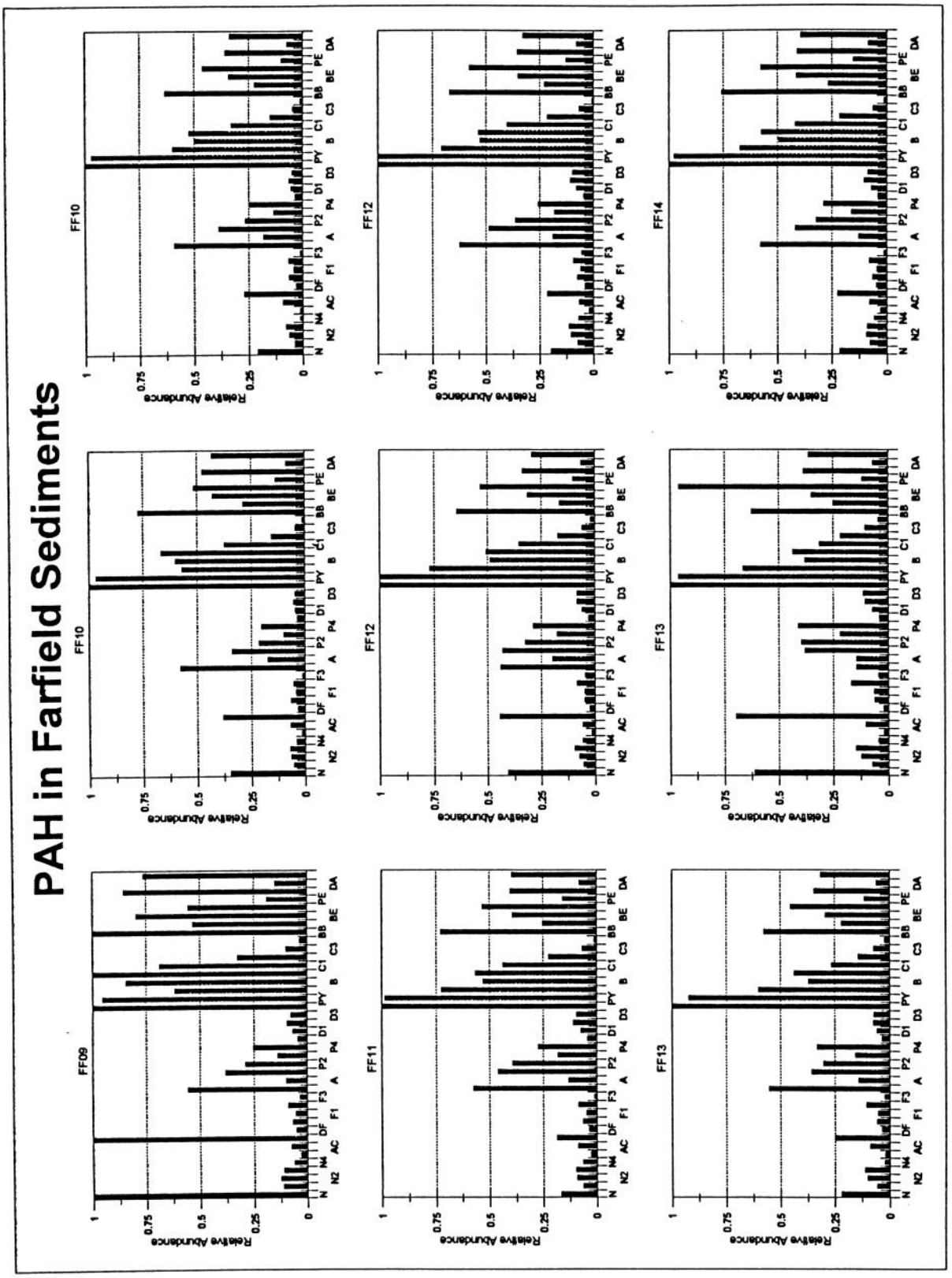
* = Method Detection Limit (MDL)
NA = Not Applicable

Results of USGS Sediment Analysis (ng/g - dry weight)

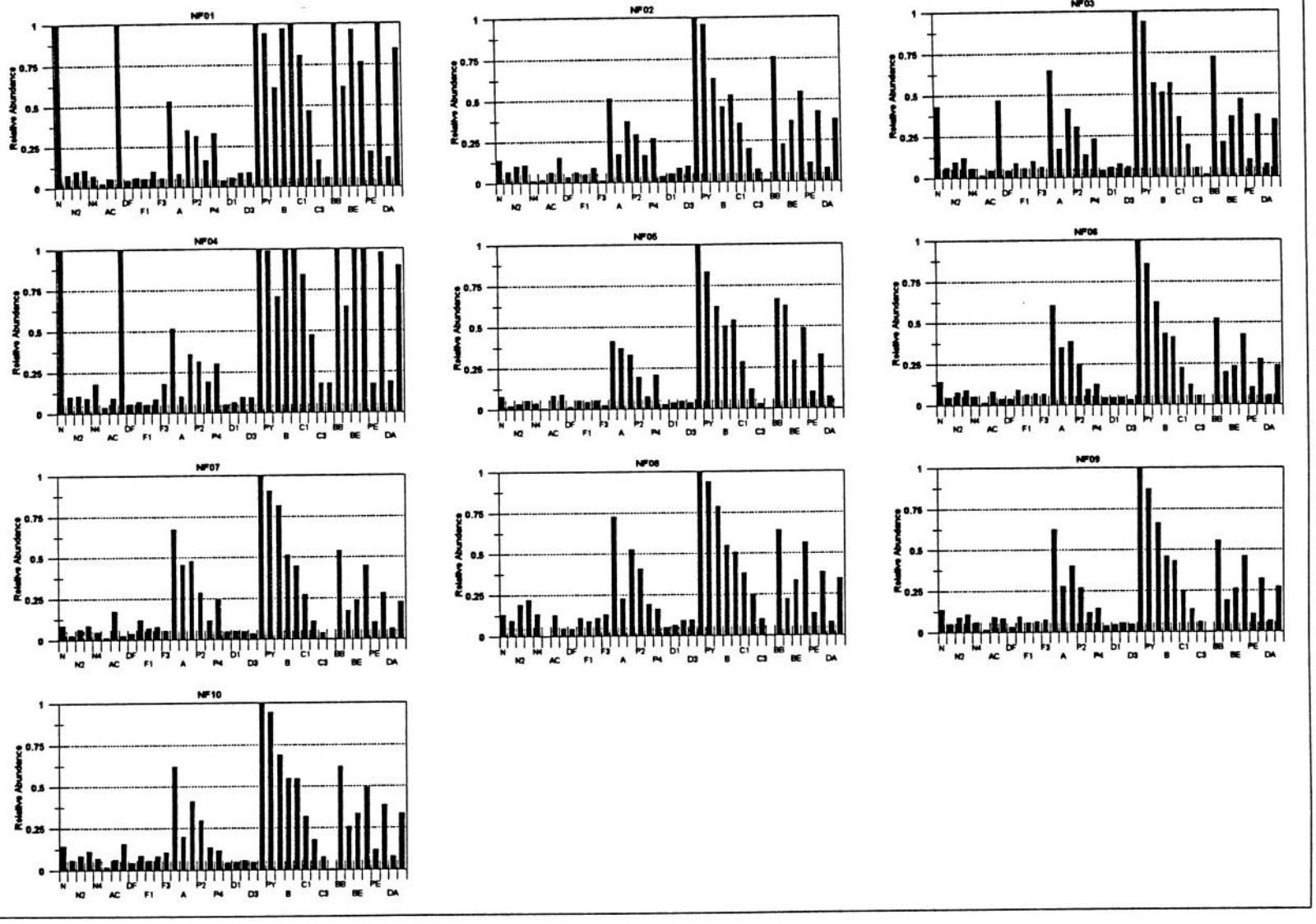
Station:	USGS04	USGS05	USGS06	USGS07	USGS08	USGS09	USGS11	USGS14
Sample ID:	STA4G1	STA5G1	6G2	STA7G1	STA8G1	9G1	11G2	14G2
Total Organic Carbon (%):	NA	NA	NA	NA	NA	NA	NA	NA
naphthalene	47.05	64.99	49.97	39.24	65.10	52.93	53.74	48.27
C1-naphthalenes	8.05	4.12	7.16	18.94	3.13	10.63	14.88	8.86
C2-naphthalenes	11.55	4.92	9.10	31.86	3.53	12.96	24.75	12.50
C3-naphthalenes	14.68	4.79	11.68	33.93	4.32	13.13	29.89	14.79
C4-naphthalenes	4.83	3.29	6.75	8.35	5.27	2.46	18.92	3.65
biphenyl	2.68	1.32	2.14	7.86	1.29	3.47	4.96	3.22
acenaphthylene	11.66	3.78	8.13	38.82	2.16	7.98	28.14	13.72
acenaphthene	54.41	66.59	58.99	44.77	65.39	63.83	65.58	55.40
dibenzofuran	5.40	2.72	4.52	12.61	1.92	4.91	9.85	6.06
fluorene	10.10	4.32	7.98	17.60	2.32	7.70	23.43	10.99
C1-fluorenes	7.49	2.87	5.55	13.04	1.79	5.93	14.67	7.75
C2-fluorenes	14.37	5.29	9.89	32.90	2.48	10.26	26.01	14.37
C3-fluorenes	4.83	3.29	3.79	8.35	5.27	2.46	4.06	3.65
phenanthrene	108.25	38.21	79.12	146.43	22.99	55.60	197.18	103.55
anthracene	18.38	5.57	15.11	34.94	3.13	12.79	62.68	21.21
C1-phenanthrene/anthracenes	74.00	24.26	52.56	104.83	14.36	42.22	142.91	79.97
C2-phenanthrene/anthracenes	55.42	17.25	39.55	106.11	11.62	33.02	126.34	62.63
C3-phenanthrene/anthracenes	28.21	8.64	18.66	48.54	5.27	18.19	65.61	34.06
C4-phenanthrene/anthracenes	57.68	18.74	45.30	83.51	10.49	36.10	113.13	60.97
dibenzothiophene	7.55	2.73	5.13	11.35	1.71	4.76	12.92	7.04
C1-dibenzothiophenes	11.50	3.91	8.28	20.77	2.69	8.26	20.95	12.44
C2-dibenzothiophenes	17.27	5.56	11.79	23.45	3.58	11.55	36.02	19.40
C3-dibenzothiophenes	14.28	4.17	9.60	20.29	2.63	9.64	30.09	15.31
fluoranthene	187.91	62.98	142.96	271.49	39.39	93.05	337.95	182.24
pyrene	172.39	55.05	129.17	242.35	32.85	87.20	303.64	170.73
C1-fluoranthene/pyrenes	110.42	34.08	81.32	166.18	20.83	65.00	251.26	130.04
benz[a]anthracene	78.77	29.79	66.02	114.50	16.45	57.39	175.59	98.04
chrysene	102.43	38.23	77.03	95.33	24.30	72.46	193.20	113.16
C1-chrysenes	62.35	22.71	47.82	84.72	13.42	52.56	147.01	85.64
C2-chrysenes	32.04	12.18	24.45	55.78	7.33	29.51	83.69	41.40
C3-chrysenes	11.09	3.81	7.82	19.30	5.27	9.56	21.98	12.05
C4-chrysenes	4.83	3.29	3.79	8.35	5.27	2.46	4.06	3.65
benzo[b]fluoranthene	114.55	41.50	101.90	180.69	30.22	90.37	222.69	135.89
benzo[k]fluoranthene	45.39	16.89	22.14	55.79	7.24	25.30	72.25	33.41
benzo[e]pyrene	61.72	23.23	47.70	93.90	15.55	45.68	111.51	71.57
benzo[a]pyrene	87.99	50.94	69.78	122.66	49.26	51.84	165.64	89.57
perylene	20.66	6.73	16.08	29.74	4.35	14.74	44.41	21.52
indeno[1,2,3-c,d]pyrene	62.02	22.76	48.52	9.86	14.38	46.02	116.17	72.59
dibenz[a,h]anthracene	11.12	3.85	8.68	20.03	2.44	8.73	20.82	13.93
benzo[g,h,i]perylene	58.72	21.33	44.74	97.80	14.84	42.42	104.40	66.49
Total PAH	1814.01	750.68	1410.65	2576.98	545.83	1225.05	3502.96	1961.71
phenyl decane	12.06 *	8.22 *	9.47	20.88	13.17 *	6.15 *	10.14 *	9.13 *
phenyl undecane	12.06 *	8.22 *	21.82	198.29	13.17 *	6.15 *	10.14 *	9.13 *
phenyl dodecane	12.06 *	8.22 *	36.10	64.11	13.17 *	6.15 *	10.14 *	9.13 *
phenyl tridecane	12.06 *	8.22 *	9.47	20.88	13.17 *	6.15 *	10.14 *	9.13 *
phenyl tetradecane	12.06 *	8.22 *	9.47	20.88	13.17 *	6.15 *	10.14 *	9.13 *
Total LAB	NA	NA	86.33	325.06	NA	NA	NA	NA

* = Method Detection Limit (MDL)
NA = Not Applicable

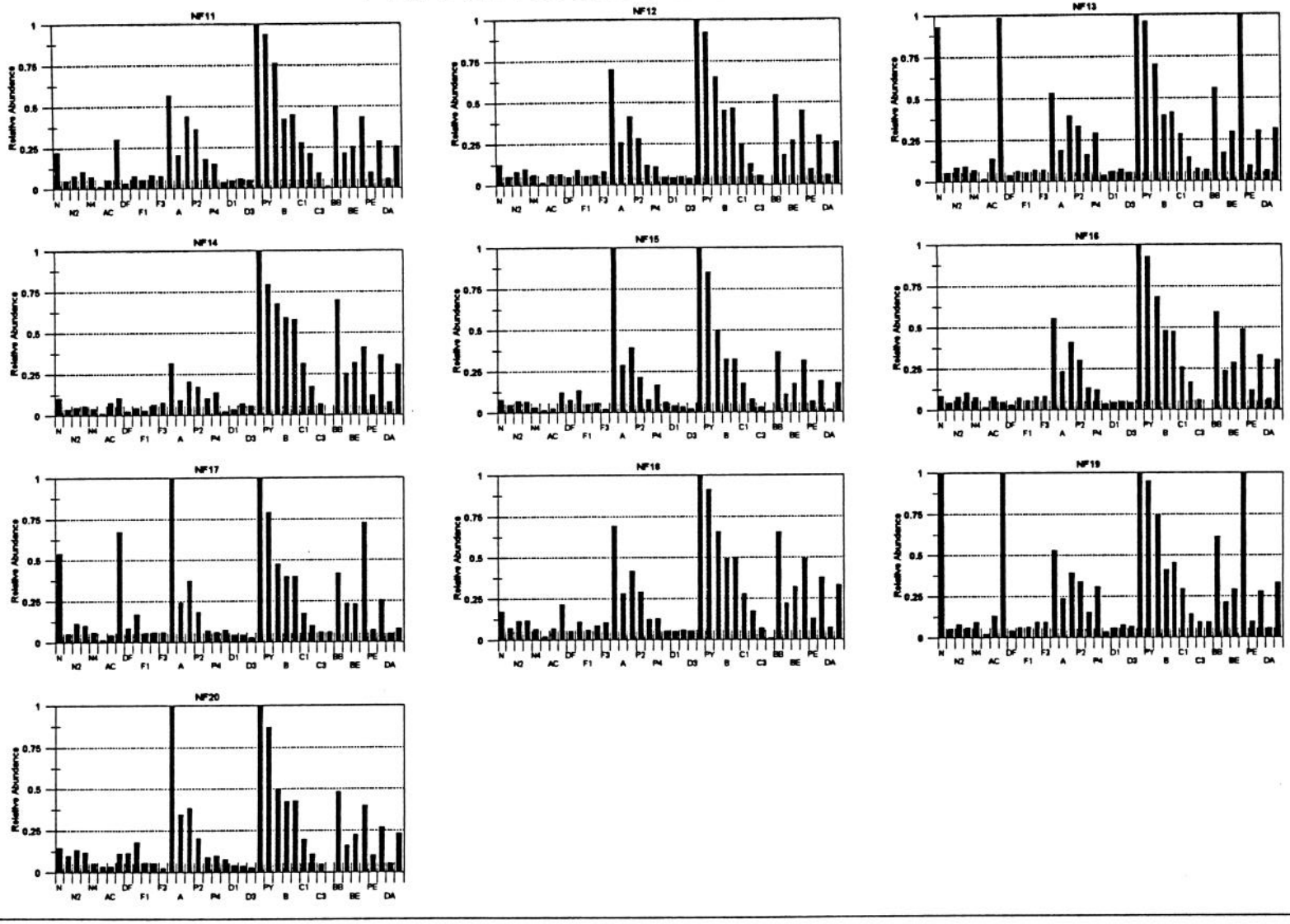

PAH in Farfield Sediments
FF01
FF04
FF01
FF06
FF01
FF05
FF05
FF08
FF01
FF05
FF07
Relative Abundance
N N2 N4 AC DF F1 F3 A P2 P4 D1 D3 PY B C1 C3 BB BE PE DA

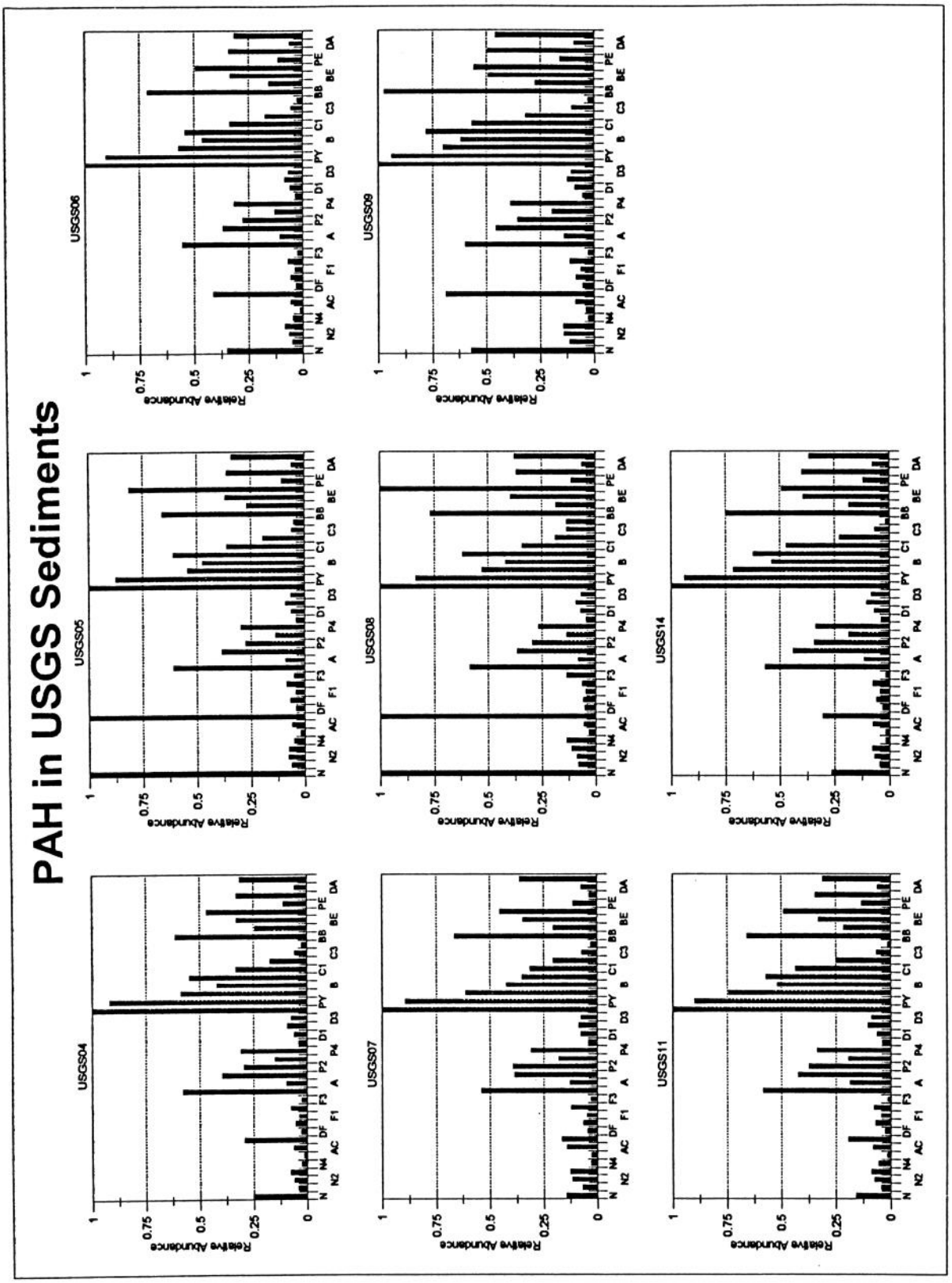

PAH in Farfield Sediments
FF09
FF10
FF10
FF10
FF11
FF12
FF12
FF13
FF13
FF14
Relative Abundance
0
0.25
0.5
0.75
1
N
N2
N4
AC
DF
F1
F3
A
P2
P4
D1
D3
PY
B
C1
C3
BB
BE
PE
DA

PAH in Nearfield Sediments



PAH in Nearfield Sediments




PAH in USGS Sediments
USGS04
USGS05
USGS06
USGS07
USGS08
USGS09
USGS11
USGS14
Relative Abundance
0
0.25
0.5
0.75
1
N
N2
N4
AC
DF
F1
F3
A
P2
P4
D1
D3
PY
B
C1
C3
BB
BE
PE
DA

Results of Farfield Sediment Analysis (ng/g - dry weight)

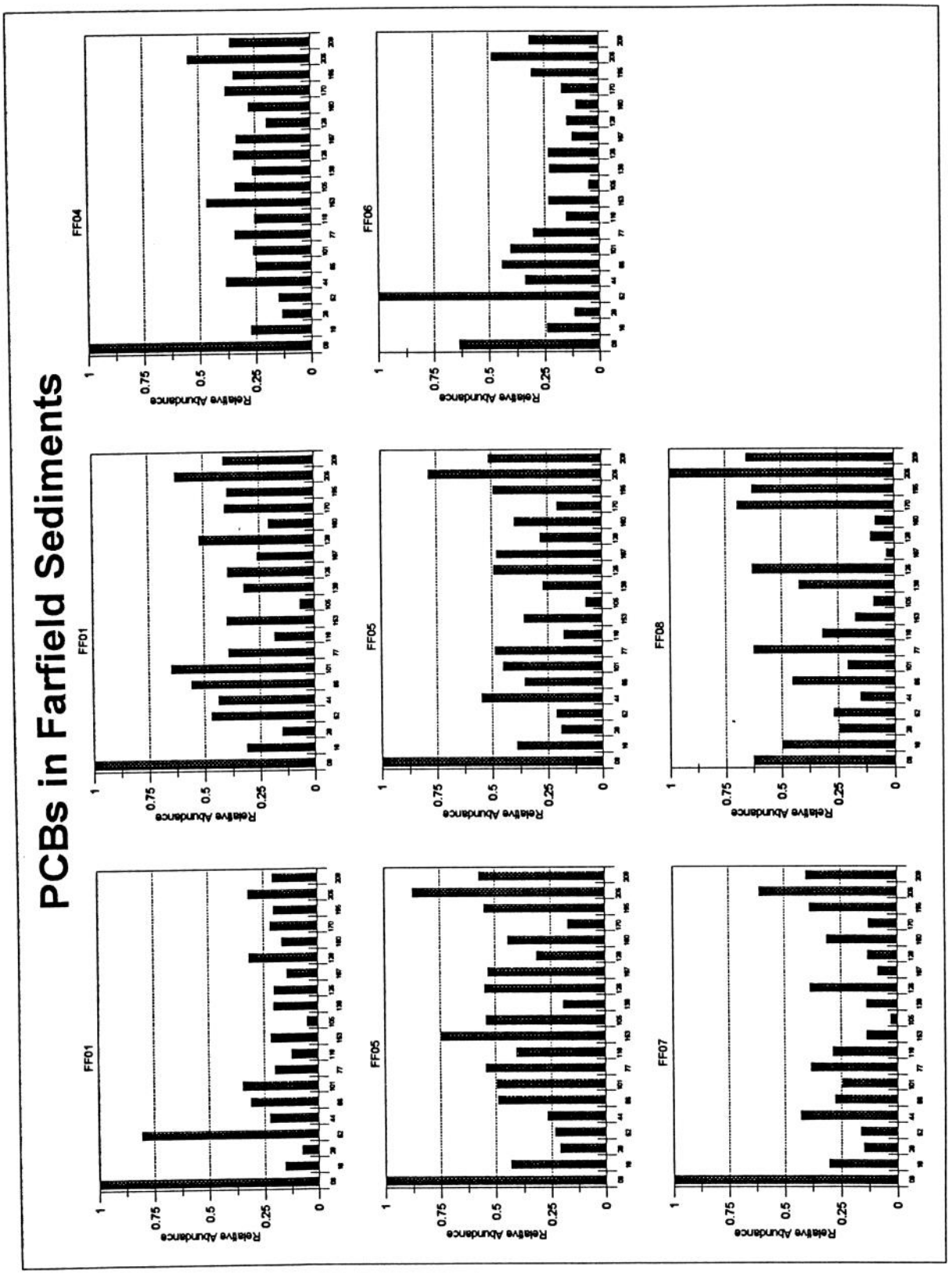
Station:	FF01	FF01	FF04	FF05	FF05	FF06	FF07	FF08	FF09	FF10	FF10	FF11	FF12	FF12	FF13	FF13	FF14
Sample ID (MB):	FF1-1	FF1-2	FF4-1	FF5-1	FF5-2	FF6-1	FF7-2	FF8-1	FF9-2	FF10-1	FF10-2	FF11-1	FF12-1	FF12-2	FF13-1	FF13-2	FF14-2
Total Organic Carbon (%):	2.3	2	2.3	1.2	1.3	1.2	2.4	1.6	0.7	0.7	0.8	2.3	0.8	0.9	1.4	1.2	1.8
(CL3)08	6.41	3.04	3.89	1.64	1.60	1.89	3.04	2.20	0.62	0.51	0.51	0.91	1.46	1.64	1.30	0.64	2.99
CL3(18)	1.01	0.94	1.05	0.71	0.62	0.72	0.92	1.74	0.55	0.54	0.56	0.80	0.54	0.57	1.02	0.67	5.98
CL3(28)	0.50	0.46	0.52	0.35	0.30	0.35	0.45	0.85	0.27	0.27	0.27	0.39	0.26	0.28	0.50	0.33	0.39
CL4(52)	5.15	1.43	0.57	0.39	0.34	2.97	0.50	0.94	0.30	0.29	0.30	1.01	0.10	0.74	0.52	0.27	1.00
CL4(44)	1.43	1.33	1.49	0.44	0.88	1.01	1.30	0.53	0.78	0.77	0.79	1.13	0.14	0.81	0.36	0.08	1.11
CL4(66)	1.99	1.69	0.96	0.81	0.57	1.31	0.84	1.59	0.23	0.42	0.46	1.53	0.40	1.86	0.59	0.25	1.04
CL5(101)	2.22	1.97	1.01	0.81	0.72	1.20	0.73	0.72	0.67	0.74	1.29	2.66	0.60	1.82	0.88	0.57	1.91
CL4(77)	1.27	1.18	1.32	0.89	0.78	0.90	1.16	2.19	0.69	0.68	0.70	1.01	0.68	0.72	1.28	0.84	0.99
CL5(118)	0.78	0.55	0.99	0.67	0.28	0.45	0.86	1.11	0.18	0.13	0.20	0.33	0.29	1.18	2.41	1.46	0.40
CL6(153)	1.40	1.20	1.81	1.22	0.57	0.69	0.41	0.60	0.20	0.29	0.45	0.78	0.53	2.63	1.93	1.23	1.13
CL5(105)	0.32	0.21	1.32	0.89	0.12	0.14	0.09	0.32	0.04	0.06	0.07	0.14	0.06	0.30	0.67	0.46	0.23
CL6(138)	1.30	0.97	1.01	0.32	0.43	0.68	0.41	1.48	0.16	0.20	0.35	0.51	0.50	1.90	6.61	3.13	0.79
CL5(126)	1.28	1.19	1.33	0.90	0.79	0.69	1.17	2.20	0.70	0.69	0.71	1.02	0.68	0.73	1.30	0.85	1.00
CL7(187)	0.92	0.79	1.29	0.87	0.76	0.37	0.26	0.11	0.12	0.16	0.19	0.67	0.17	1.74	0.55	0.29	0.53
CL6(128)	2.01	1.58	0.76	0.52	0.45	0.44	0.40	0.36	0.34	0.95	0.81	1.67	0.66	1.81	0.66	0.25	1.45
CL7(180)	1.06	0.62	1.08	0.73	0.63	0.31	0.94	0.29	0.16	0.29	0.28	0.68	0.35	2.67	1.23	0.69	0.73
CL7(170)	1.40	1.23	1.48	0.28	0.33	0.50	0.38	2.44	0.24	0.33	0.39	0.87	0.24	0.91	1.43	0.94	0.65
CL8(195)	1.28	1.19	1.33	0.90	0.79	0.91	1.17	2.20	0.70	0.69	0.71	1.02	0.68	0.73	1.29	0.85	1.00
CL9(206)	2.04	1.90	2.13	1.44	1.25	1.44	1.86	3.51	1.11	1.09	1.13	1.62	1.09	1.16	2.06	1.35	1.59
CL10(209)	1.33	1.24	1.39	0.94	0.82	0.94	1.21	2.29	0.73	0.72	0.74	1.06	0.71	0.76	1.35	0.88	1.04
Total PCB	35.09	24.71	26.73	15.72	13.05	17.92	18.08	27.68	8.77	9.81	10.93	19.83	10.16	24.97	27.95	16.03	25.96

Results of Nearfield Sediment Analysis (ng/g - dry weight)

Station:	NF01	NF02	NF03	NF04	NF05	NF06	NF07	NF08	NF09	NF10	NF11	NF12	NF13	NF14	NF15	NF16	NF17	NF18	NF19	NF20
Sample ID (MB):	NF1	NF2	NF3	NF4	NF5	NF6	NF7	NF8	NF9	NF10	NF11	NF12	NF13	NF14	NF15	NF16	NF17	NF18	NF19	NF20
Total Organic Carbon (%):	0.6	2.6	0.8	0.4	0.8	1	1.2	3.2	1	0.8	0.7	1	0.5	0.9	0.9	2	0.4	0.8	0.5	1.5
(CL3)08	1.47	6.06	1.15	1.16	0.71	2.03	1.87	4.79	1.15	1.51	1.22	1.29	0.95	0.72	0.52	3.62	2.00	0.98	0.61	0.73
CL3(18)	0.47	1.14	0.56	1.15	1.20	0.67	1.03	1.07	0.61	0.57	0.52	0.60	0.46	0.50	0.86	0.94	1.10	0.53	0.50	0.23
CL3(28)	0.23	0.56	0.27	0.56	0.29	0.33	0.50	2.51	0.30	0.28	0.26	0.29	0.22	0.25	0.42	0.46	0.54	0.26	0.25	0.36
CL4(52)	0.26	1.27	0.30	0.62	0.99	0.36	0.56	2.16	0.33	0.31	0.28	0.32	0.25	0.27	0.46	0.51	0.59	0.29	0.27	0.55
CL4(44)	0.67	1.61	0.79	1.62	0.82	0.94	1.45	1.14	0.86	0.80	0.74	0.85	0.65	0.71	1.21	1.33	1.55	0.75	0.71	0.34
CL4(66)	0.24	2.62	0.61	1.05	2.82	3.88	1.28	3.73	1.21	0.52	0.38	2.15	0.18	0.76	0.78	4.06	1.00	0.85	0.42	0.95
CL5(101)	0.37	3.85	0.74	0.44	1.77	2.60	2.40	7.14	1.59	1.18	0.96	2.27	0.35	0.79	0.83	2.77	1.12	0.86	0.44	3.04
CL4(77)	0.60	1.43	0.70	1.44	0.73	0.84	1.29	1.35	0.77	0.71	0.66	0.75	0.58	0.63	1.08	1.18	1.38	0.66	0.63	0.92
CL5(118)	0.16	3.53	0.23	1.08	0.31	0.72	0.88	7.57	0.76	0.44	0.09	0.76	0.08	0.47	0.96	1.95	1.03	0.54	0.17	3.52
CL6(153)	0.32	6.23	0.51	0.16	0.79	2.38	1.77	11.85	1.53	0.95	0.14	1.92	0.14	0.70	0.74	3.80	1.88	1.08	0.25	5.32
CL5(105)	0.04	1.40	0.08	0.01	0.08	0.23	0.36	2.91	0.18	0.13	0.66	0.23	0.02	0.10	0.18	0.55	1.37	0.15	0.04	1.19
CL6(138)	0.25	5.63	0.41	1.09	0.57	1.35	1.42	10.39	1.05	0.77	0.50	1.30	0.12	0.42	1.79	3.25	1.05	0.75	0.15	5.11
CL5(126)	0.60	1.45	0.71	1.45	0.74	0.85	1.30	1.36	0.78	0.72	0.66	0.76	0.58	0.64	1.08	1.19	1.39	0.67	0.64	0.92
CL7(187)	0.08	2.16	0.23	0.18	0.56	1.68	0.89	3.26	1.06	0.87	0.14	2.67	0.07	0.53	0.30	1.98	1.35	0.76	0.16	1.28
CL6(128)	0.12	2.37	0.55	0.12	2.48	5.09	7.61	9.98	2.99	1.76	3.50	3.74	0.14	1.33	0.85	5.28	0.79	1.19	0.22	3.09
CL7(180)	0.16	3.49	0.29	0.23	0.80	3.08	1.61	6.05	1.38	1.31	0.22	3.58	0.11	0.75	0.44	3.14	1.12	0.82	0.21	2.72
CL7(170)	0.22	1.70	0.25	0.24	0.72	1.47	1.44	3.67	0.72	0.80	0.74	0.84	0.11	0.59	1.20	1.84	1.54	0.70	0.31	1.02
CL8(195)	0.60	1.45	0.71	1.45	0.74	0.85	1.30	1.36	0.77	0.72	0.66	0.76	0.58	0.64	1.08	1.19	1.39	0.67	0.64	0.92
CL9(206)	0.96	2.30	1.13	2.31	1.18	1.35	2.07	2.17	1.23	1.15	1.06	1.21	0.93	1.02	1.73	1.90	2.21	1.07	1.01	1.47
CL10(209)	0.62	1.51	0.73	1.51	0.77	0.88	1.35	1.42	0.81	0.75	0.69	0.79	0.61	0.66	1.13	1.24	1.44	0.70	0.66	0.96
Total PCB	8.43	51.76	10.95	17.87	19.05	31.55	32.35	85.88	20.09	16.27	14.10	27.09	7.14	12.46	17.64	42.18	25.84	14.25	8.27	34.63

Results of USGS Sediment Analysis (ng/g - dry weight)

Station:	USGS04	USGS05	USGS06	USGS07	USGS08	USGS09	USGS11	USGS14
Sample ID:	STA4G1	STA5G1	6G2	STA7G1	STA8G1	9G1	11G2	14G2
Total Organic Carbon (%):	NA	NA	NA	NA	NA	NA	NA	NA
(CL3)08	3.52	2.75	1.39	4.81	2.38	1.58	5.22	4.20
CL3(18)	1.15	0.78	0.90	1.99	1.25	0.59	0.97	0.87
CL3(28)	0.56	0.38	0.44	0.97	0.61	0.29	0.47	0.43
CL4(52)	0.62	0.42	0.49	0.33	0.68	0.55	0.52	0.47
CL4(44)	1.62	1.11	1.27	0.24	1.77	0.83	1.36	1.23
CL4(66)	1.05	0.71	0.82	0.62	1.14	0.53	1.23	0.79
CL5(101)	1.38	0.80	0.89	2.03	1.28	0.76	1.08	1.86
CL4(77)	1.44	0.98	1.13	2.50	1.57	0.74	1.21	1.09
CL5(118)	1.08	0.73	0.85	4.20	1.18	0.23	0.91	0.42
CL6(153)	1.97	1.35	0.56	2.83	2.16	0.48	1.66	0.19
CL5(105)	1.44	0.98	0.10	1.00	1.57	0.73	1.21	1.09
CL6(138)	1.10	0.75	0.44	3.48	1.20	0.38	0.92	0.81
CL5(126)	1.45	0.99	1.14	2.52	1.59	0.74	1.22	1.10
CL7(187)	1.41	0.96	1.11	0.35	1.54	0.72	0.45	0.38
CL6(128)	0.83	0.57	0.65	0.89	0.91	0.42	1.38	0.83
CL7(180)	1.17	0.80	0.33	2.03	1.28	0.29	0.41	0.57
CL7(170)	1.61	1.10	0.47	2.79	1.76	0.35	0.61	0.60
CL8(195)	1.45	0.99	1.14	2.52	1.59	0.74	1.22	1.10
CL9(206)	2.32	1.58	1.82	4.01	2.53	1.18	1.95	1.75
CL10(209)	1.51	1.03	1.19	2.62	1.65	0.77	1.27	1.15
Total PCB	28.69	19.77	17.12	42.72	29.64	12.87	25.27	20.93


PCBs in Farfield Sediments
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FF01
FF04
FF05
FF06
FF05
FF08
FF07
Relative Abundance
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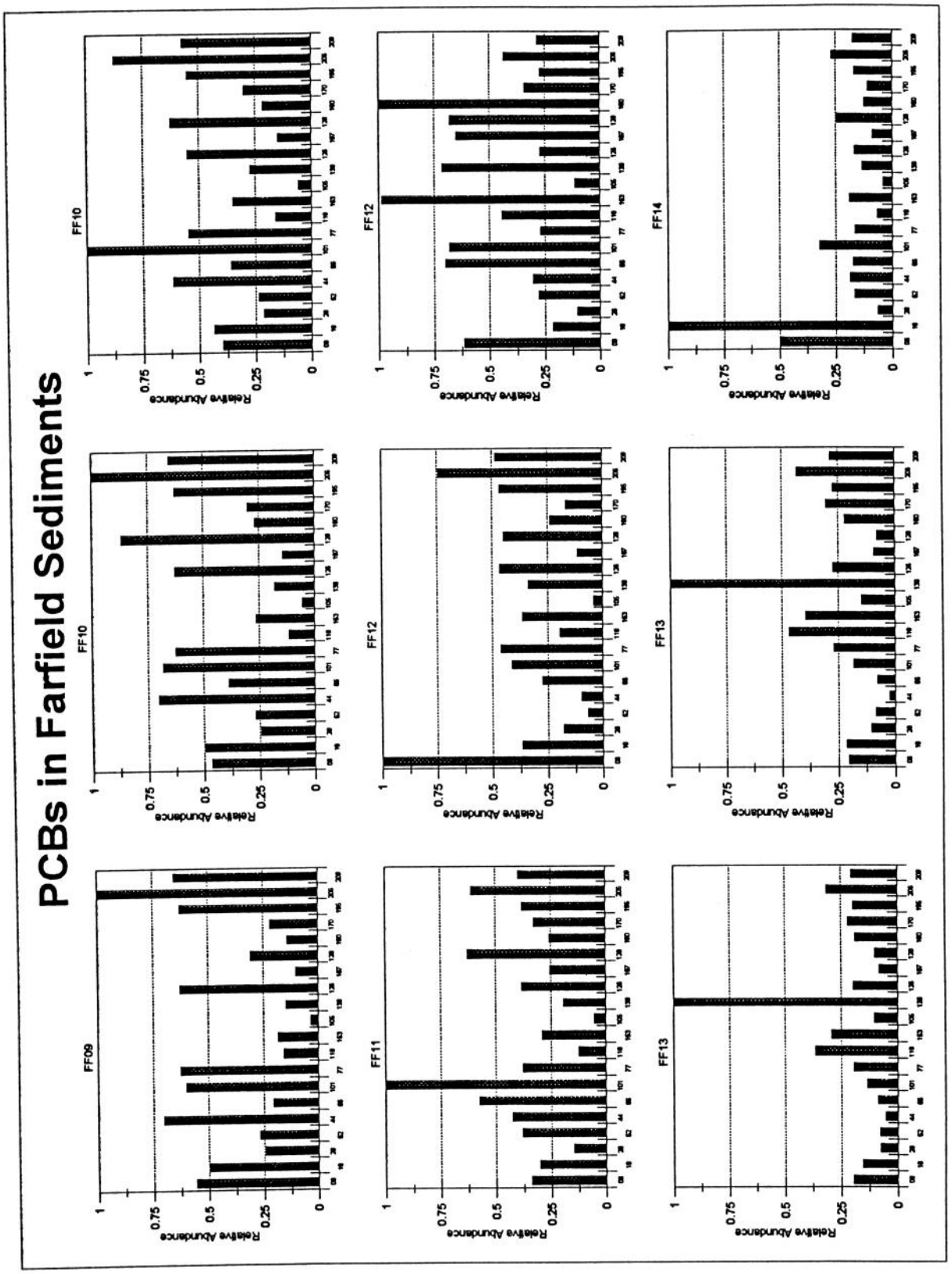
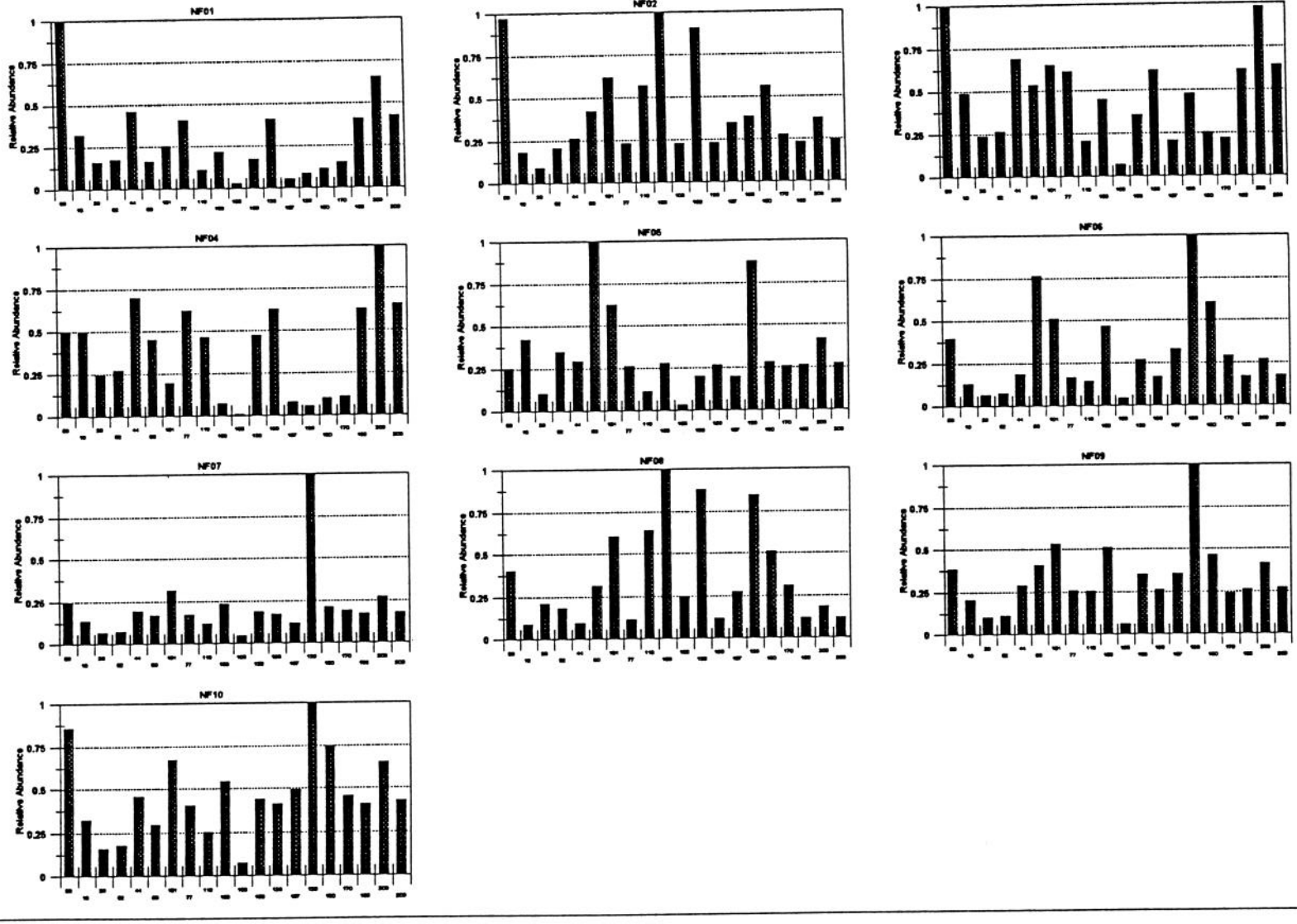
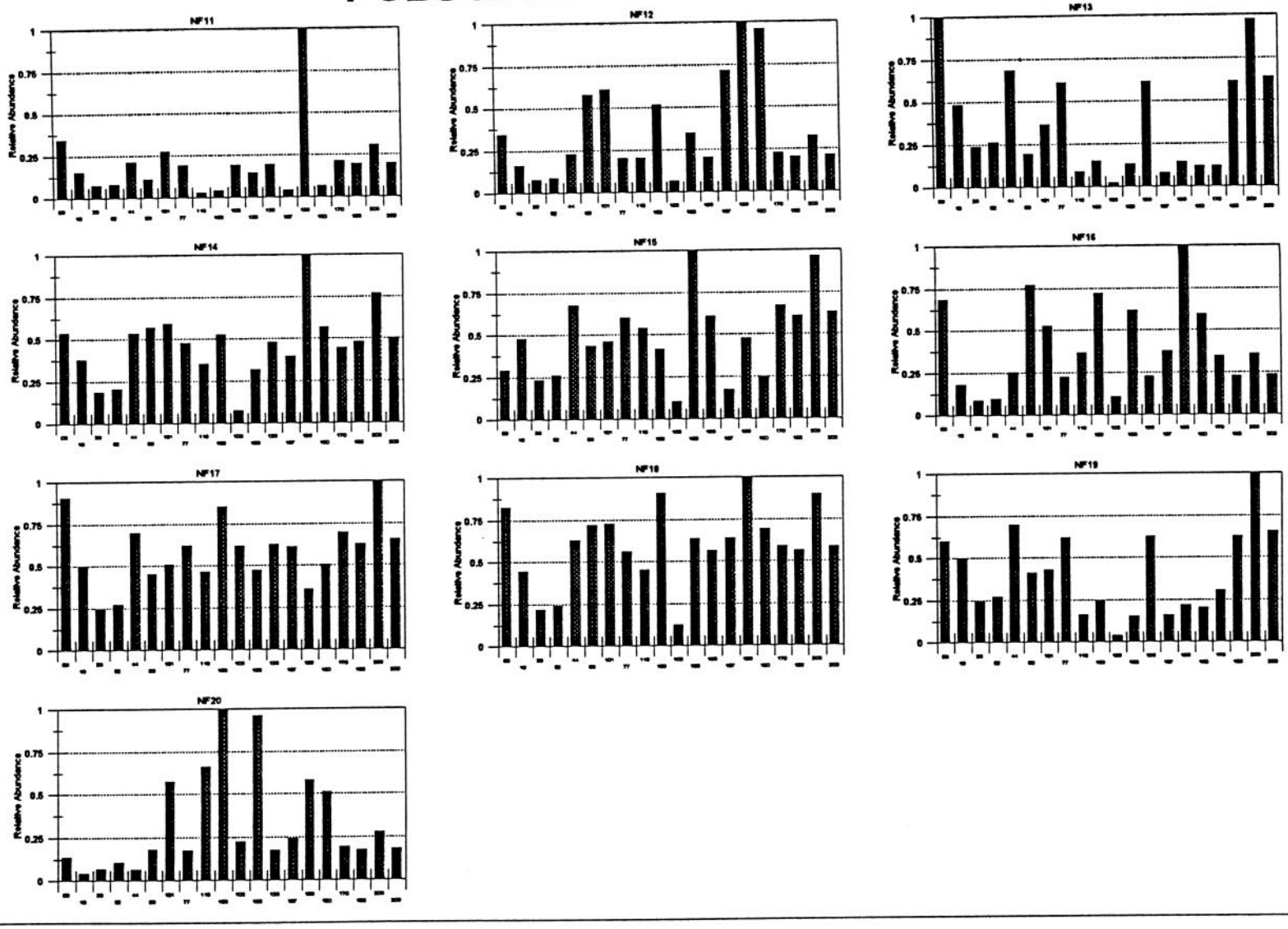
0.5
0.25
0

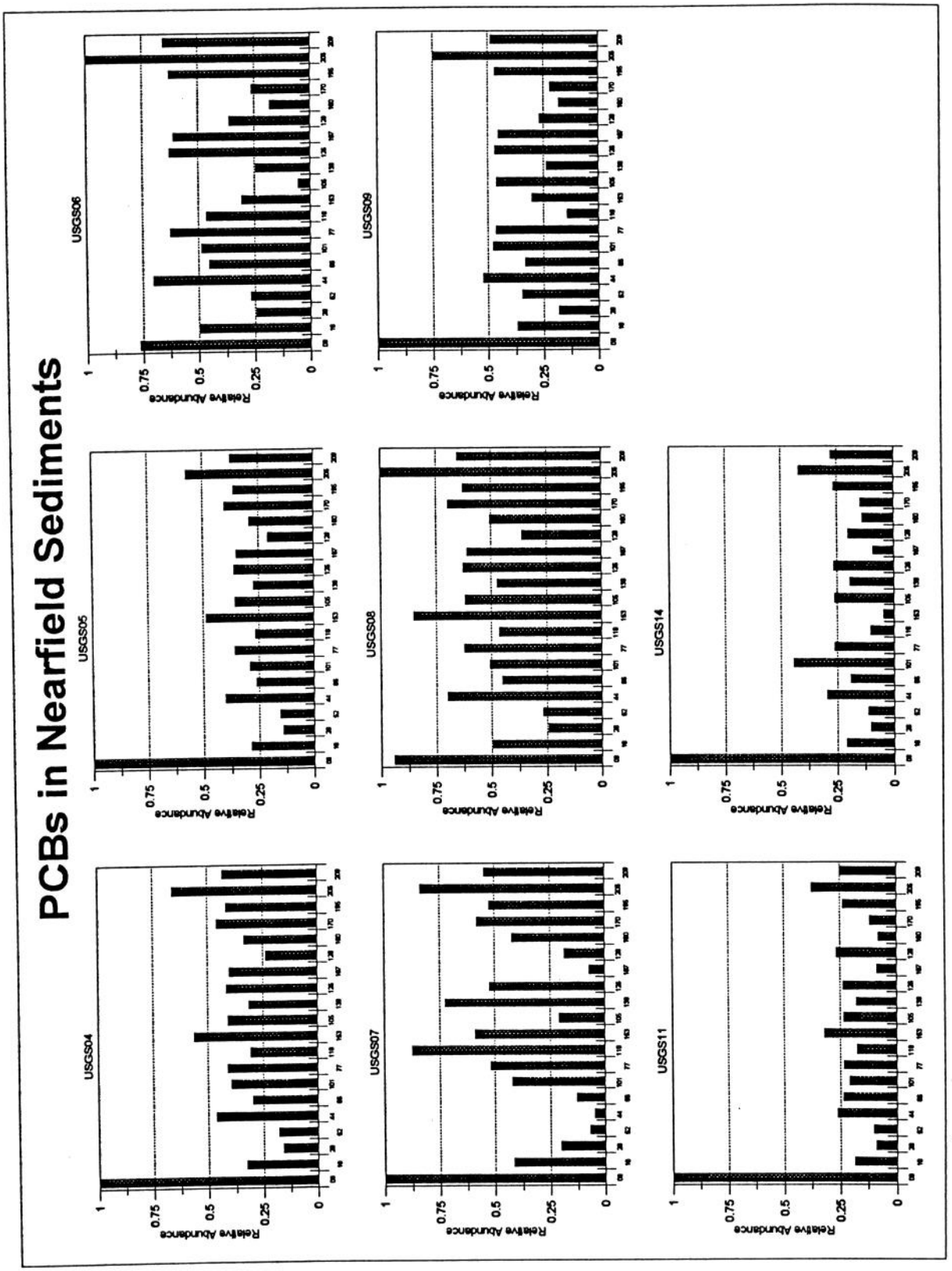

PCBs in Farfield Sediments
FF09
FF10
FF10
FF11
FF12
FF12
FF13
FF13
FF14
Relative Abundance
0
0.25
0.5
0.75
1

PCBs in Nearfield Sediments



PCBs in Nearfield Sediments




PCBs in Nearfield Sediments
USGS04
USGS05
USGS06
USGS07
USGS08
USGS09
USGS11
USGS14
Relative Abundance
0
0.25
0.5
0.75
1

Results of Farfield Sediment Analysis (ng/g - dry weight)

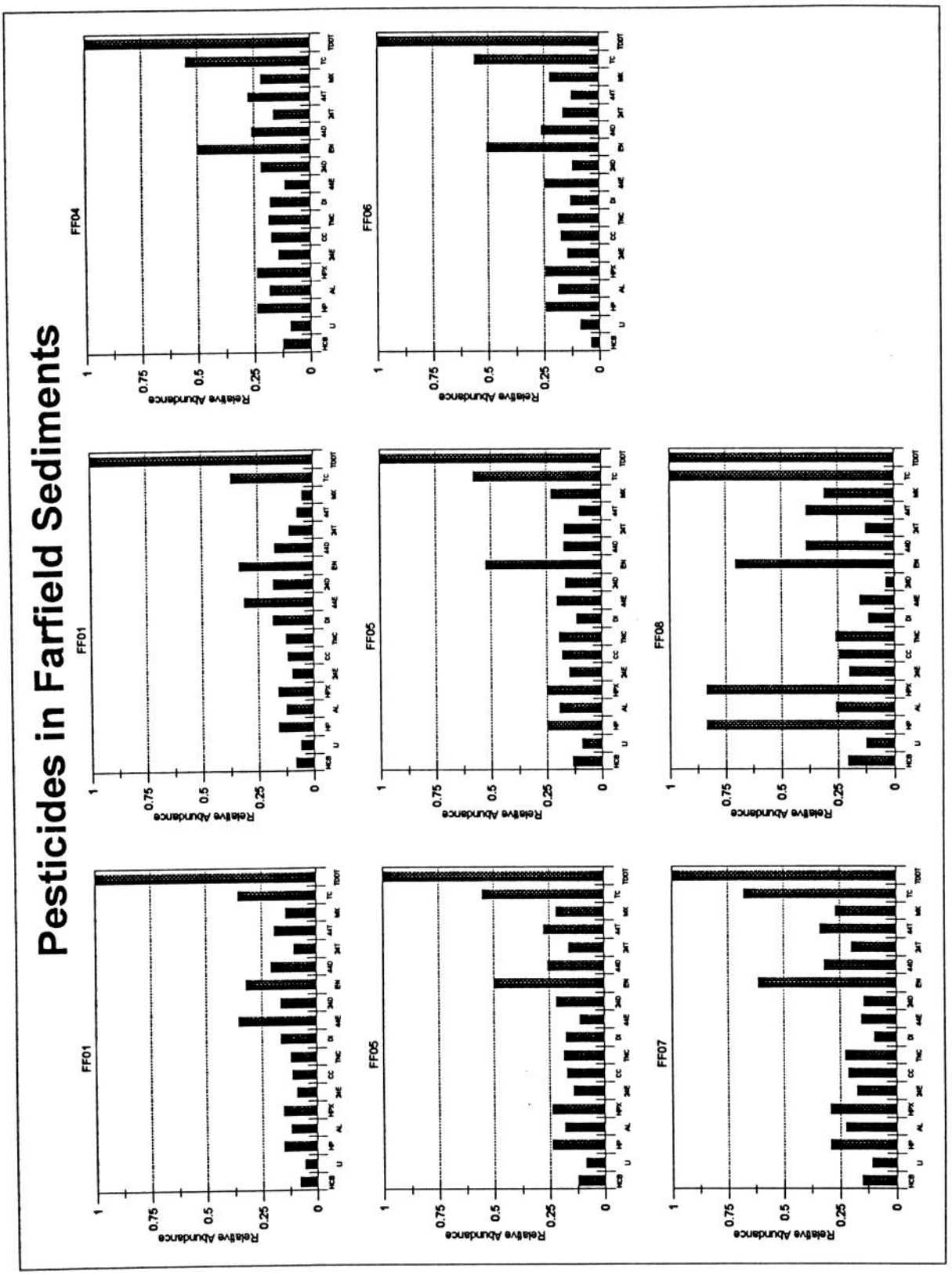
Station:	FF01	FF01	FF04	FF05	FF05	FF06	FF07	FF08	FF09	FF10	FF10	FF11	FF12	FF12	FF13	FF13	FF14
Sample ID (MB):	FF1-1	FF1-2	FF4-1	FF5-1	FF5-2	FF6-1	FF7-2	FF8-1	FF9-2	FF10-1	FF10-2	FF11-1	FF12-1	FF12-2	FF13-1	FF13-2	FF14-2
Total Organic Carbon (%):	2.3	2	2.3	1.2	1.3	1.2	2.4	1.6	0.7	0.7	0.8	2.3	0.8	0.9	1.4	1.2	1.8
Hexachlorobenzene	0.59	0.55	0.62	0.42	0.38	0.13	0.54	1.22	0.17	0.11	0.21	0.63	0.10	0.29	0.88	0.33	0.87
Lindane	0.42	0.39	0.44	0.30	0.26	0.30	0.38	0.73	0.23	0.23	0.23	0.34	0.23	0.24	0.43	0.28	0.33
Heptachlor	1.15	1.07	1.20	0.81	0.71	0.81	1.05	4.94	0.63	0.62	0.64	0.91	0.61	0.65	1.16	0.76	0.90
Aldrin	0.89	0.82	0.92	0.62	0.54	0.63	0.81	1.52	0.48	0.47	0.49	0.70	0.47	0.50	0.89	0.59	0.69
Heptachlor Epoxide	1.15	1.07	1.20	0.81	0.71	0.81	1.05	4.94	0.63	0.62	0.64	0.91	0.61	0.65	1.16	0.76	0.90
2,4-DDE	0.68	0.64	0.71	0.48	0.42	0.48	0.62	1.18	0.37	0.37	0.38	0.54	0.37	0.39	0.69	0.45	0.53
Cis-Chlordane	0.83	0.77	0.87	0.58	0.51	0.59	0.76	1.43	0.45	0.45	0.46	0.66	0.44	0.47	0.84	0.55	0.65
Trans-Nonachlor	0.89	0.83	0.93	0.63	0.55	0.63	0.81	1.53	0.48	0.48	0.49	0.71	0.47	0.50	0.90	0.59	0.69
Dieldrin	1.24	1.22	0.88	0.60	0.32	0.43	0.34	0.67	0.17	0.24	0.24	0.95	0.15	0.63	0.38	0.12	0.72
4,4-DDE	2.68	2.09	0.56	0.38	0.58	0.83	0.55	0.90	0.61	0.54	0.66	1.97	0.48	1.44	0.82	0.43	1.43
2,4-DDD	1.24	1.21	1.10	0.74	0.46	0.41	0.51	0.22	0.23	0.85	0.38	1.20	0.32	0.96	0.32	0.24	0.92
Endrin	2.42	2.25	2.52	1.70	1.49	1.71	2.20	4.16	1.32	1.30	1.34	1.92	1.29	1.37	2.45	1.60	1.89
4,4-DDD	1.57	1.16	1.29	0.87	0.48	0.88	1.13	2.29	0.17	1.56	0.18	0.86	0.19	1.22	0.64	0.40	1.05
2,4-DDT	0.78	0.72	0.81	0.55	0.48	0.55	0.71	0.73	0.42	0.42	0.43	0.62	0.41	0.44	0.79	0.51	0.61
4,4-DDT	1.45	0.49	1.38	0.93	0.29	0.42	1.21	2.28	0.72	0.17	0.19	0.43	0.04	0.29	1.34	0.88	0.36
Mirex	1.05	0.32	1.10	0.74	0.65	0.74	0.96	1.81	0.57	0.56	0.58	0.83	0.56	0.60	1.06	0.70	0.82
Total Chlordane	1.72	1.60	1.79	1.21	1.06	1.22	1.56	2.96	0.94	0.92	0.95	1.36	0.92	0.98	1.74	1.14	1.34
Total DDT	8.40	6.30	5.86	3.96	2.71	3.56	4.73	7.59	2.53	3.91	2.22	5.63	1.80	4.75	4.60	2.91	4.89

Results of Nearfield Sediment Analysis (ng/g - dry weight)

Station:	NF01	NF02	NF03	NF04	NF05	NF06	NF07	NF08	NF09	NF10	NF11	NF12	NF13	NF14	NF15	NF16	NF17	NF18	NF19	NF20
Sample ID (MB):	NF1	NF2	NF3	NF4	NF5	NF6	NF7	NF8	NF9	NF10	NF11	NF12	NF13	NF14	NF15	NF16	NF17	NF18	NF19	NF20
Total Organic Carbon (%):	0.6	2.6	0.8	0.4	0.8	1	1.2	3.2	1	0.8	0.7	1	0.5	0.9	0.9	2	0.4	0.8	0.5	1.5
Hexachlorobenzene	0.10	1.75	0.14	0.13	0.24	2.42	0.12	8.02	0.17	0.10	0.13	0.32	0.09	0.08	0.08	1.12	0.64	0.21	0.11	0.24
Lindane	0.20	0.48	0.23	0.48	0.24	0.28	0.43	0.45	0.26	0.24	0.22	0.25	0.19	0.21	0.36	0.39	0.46	0.22	0.21	0.82
Heptachlor	0.54	1.30	0.63	1.30	0.66	0.76	1.17	1.22	0.70	0.65	0.60	0.68	0.52	0.57	0.97	1.07	1.25	0.60	0.57	0.83
Aldrin	0.41	1.00	0.49	1.00	0.51	0.58	0.90	0.94	0.54	0.50	0.46	0.52	0.40	0.44	0.75	0.82	0.96	0.46	0.44	0.64
Heptachlor Epoxide	0.54	1.30	0.63	1.30	0.66	0.76	1.17	1.22	0.70	0.65	0.60	0.68	0.52	0.57	0.97	1.07	1.25	0.60	0.57	0.83
2,4-DDE	0.32	0.77	0.38	0.78	0.39	0.45	0.69	0.73	0.41	0.38	0.35	0.41	0.31	0.34	0.58	0.64	0.74	0.36	0.34	0.49
Cis-Chlordane	0.39	0.94	0.46	0.94	0.48	0.55	0.84	0.88	0.50	0.47	0.63	0.74	0.04	0.41	0.70	0.77	0.90	0.43	0.41	0.50
Trans-Nonachlor	0.42	1.00	0.49	1.01	0.51	0.59	0.90	0.94	0.54	0.50	0.46	0.53	0.40	0.44	0.75	0.83	0.96	0.46	0.44	0.90
Dieldrin	0.09	0.92	0.17	0.96	0.45	0.82	0.32	2.61	0.54	0.43	0.44	0.79	0.07	0.36	0.12	1.15	0.92	0.29	0.13	1.23
4,4-DDE	0.89	2.99	0.48	0.35	1.18	1.79	1.67	4.67	1.22	0.96	0.36	1.89	0.79	0.99	0.70	2.77	0.59	0.74	0.83	2.08
2,4-DDD	0.17	1.70	0.31	1.19	0.62	1.27	2.48	3.90	0.85	1.05	0.30	1.53	0.10	0.95	0.91	2.34	1.14	0.56	0.16	2.31
Endrin	1.13	2.73	1.33	2.74	1.40	1.60	2.45	2.57	1.46	1.36	1.26	1.43	1.10	1.20	2.05	2.25	2.62	1.26	1.20	1.74
4,4-DDD	0.54	1.46	0.16	1.41	0.42	0.70	0.54	8.80	0.57	0.29	0.10	0.54	0.07	0.19	0.59	1.31	1.35	0.37	0.11	3.07
2,4-DDT	0.36	0.88	0.43	0.88	0.45	0.51	0.79	0.83	0.47	0.44	0.40	0.46	0.35	0.39	0.66	0.72	0.84	0.41	0.39	0.49
4,4-DDT	0.05	1.50	0.12	1.50	0.76	0.88	1.34	1.41	1.53	0.75	0.69	0.79	0.60	0.66	1.12	1.23	1.44	2.58	0.66	0.96
Mirex	0.49	1.19	0.58	1.19	0.61	0.69	1.07	1.12	0.64	0.59	0.55	0.62	0.48	0.52	0.89	0.98	1.14	0.55	0.52	0.76
Total Chlordane	0.81	1.94	0.95	1.95	0.99	1.14	1.74	1.83	1.04	0.97	1.09	1.27	0.45	0.86	1.46	1.60	1.86	0.90	0.85	1.40
Total DDT	2.34	9.30	1.87	6.11	3.83	5.60	7.51	20.33	5.05	3.87	2.21	5.61	2.23	3.51	4.57	9.01	6.09	5.01	2.49	9.40

Results of USGS Sediment Analysis (ng/g - dry weight)

Station:	USGS04	USGS05	USGS06	USGS07	USGS08	USGS09	USGS11	USGS14
Sample ID:	STA4G1	STA5G1	6G2	STA7G1	STA8G1	9G1	11G2	14G2
Total Organic Carbon (%):	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.68	0.20	0.38	0.37	0.33	0.75	0.71	0.47
Lindane	0.48	0.33	0.38	0.83	0.52	0.24	0.40	0.36
Heptachlor	1.31	0.89	1.03	2.26	1.43	0.67	1.10	0.99
Aldrin	1.00	0.68	0.79	1.74	1.10	0.51	0.84	0.76
Heptachlor Epoxide	1.31	0.89	1.03	2.26	1.43	0.67	1.10	0.99
2,4-DDE	0.78	0.53	0.61	1.34	0.85	0.40	0.65	0.59
Cis-Chlordane	0.94	0.64	0.74	1.63	1.03	0.48	0.79	0.71
Trans-Nonachlor	1.01	0.69	0.79	1.75	1.10	0.51	0.85	0.76
Dieldrin	0.96	0.66	0.76	1.67	1.05	0.29	0.68	0.44
4,4-DDE	0.61	0.42	0.48	1.48	0.67	0.55	1.03	0.96
2,4-DDD	1.19	0.81	0.94	2.07	1.30	0.47	0.74	0.46
Endrin	2.75	1.87	2.16	4.75	3.00	1.40	2.31	2.08
4,4-DDD	1.41	0.96	1.11	1.58	1.54	0.72	1.19	1.07
2,4-DDT	0.88	0.60	0.69	1.53	0.96	0.45	0.74	0.67
4,4-DDT	1.50	1.03	1.18	2.60	1.64	0.77	1.27	1.14
Mirex	1.19	0.81	0.94	2.07	1.30	0.61	1.00	0.90
Total Chlordane	1.95	1.33	1.53	3.38	2.13	1.00	1.64	1.48
Total DDT	6.38	4.35	5.01	10.60	6.97	3.35	5.62	4.89


Pesticides in Farfield Sediments
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Relative Abundance
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0.75
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AT
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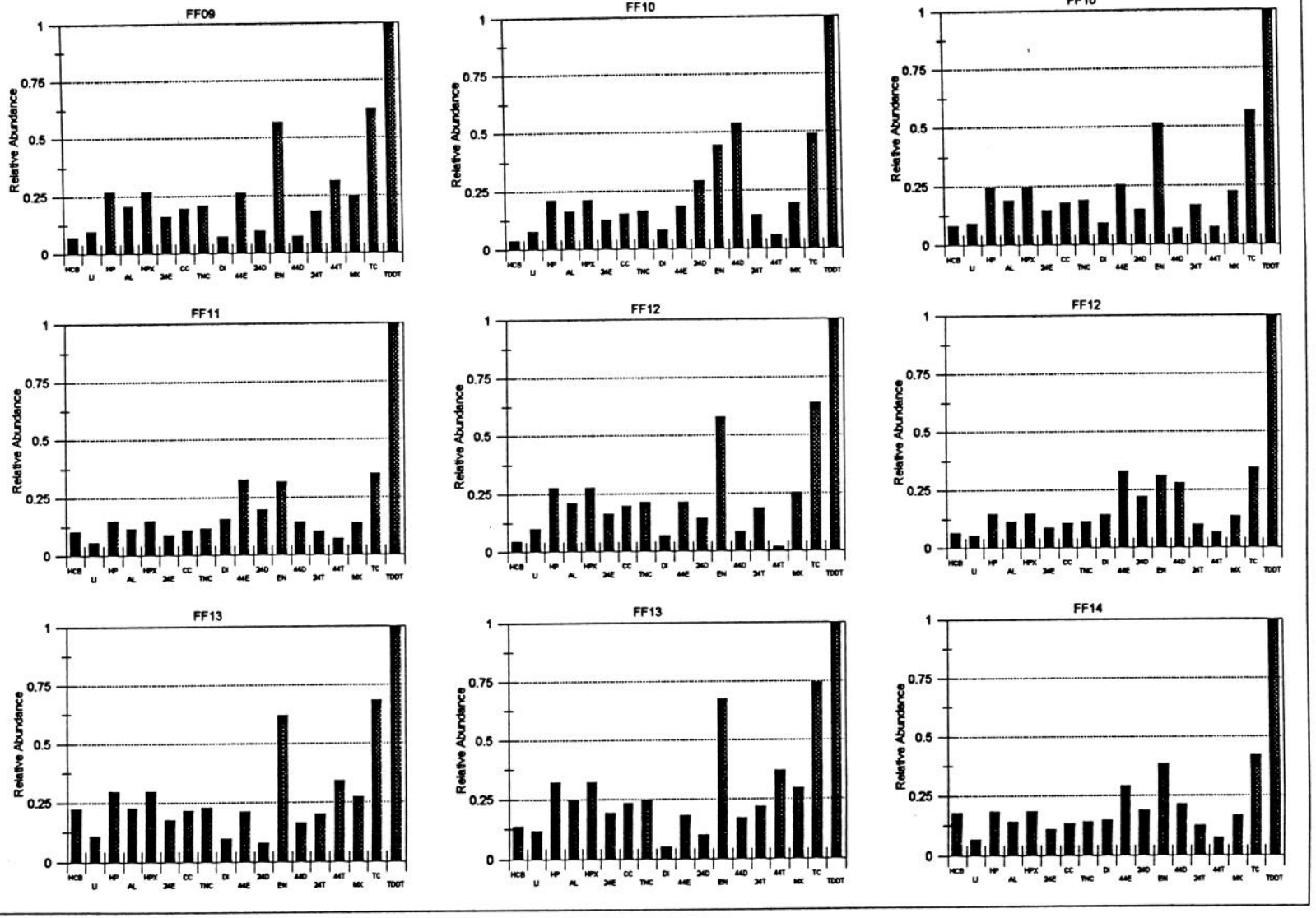
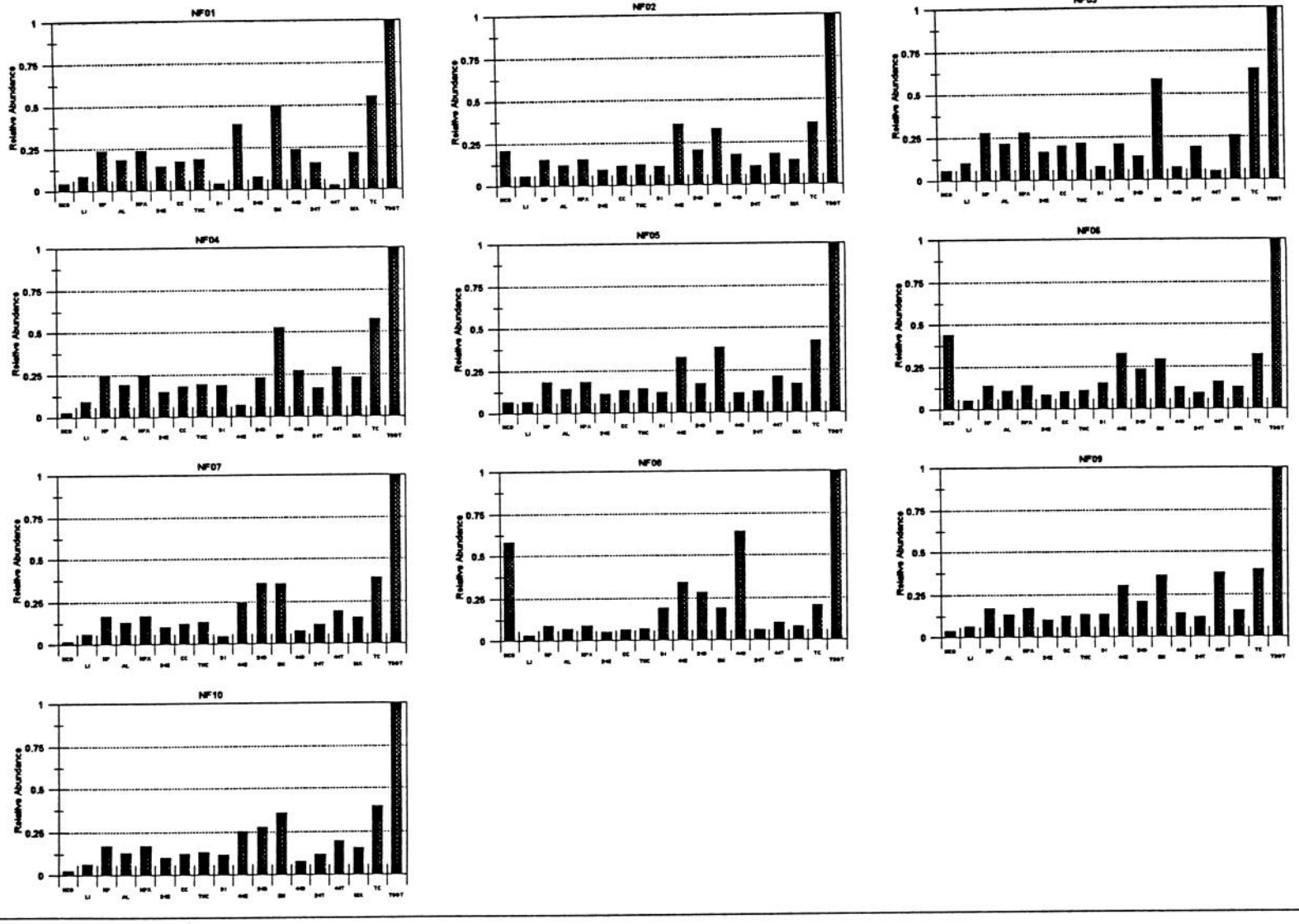
TC
TDDT

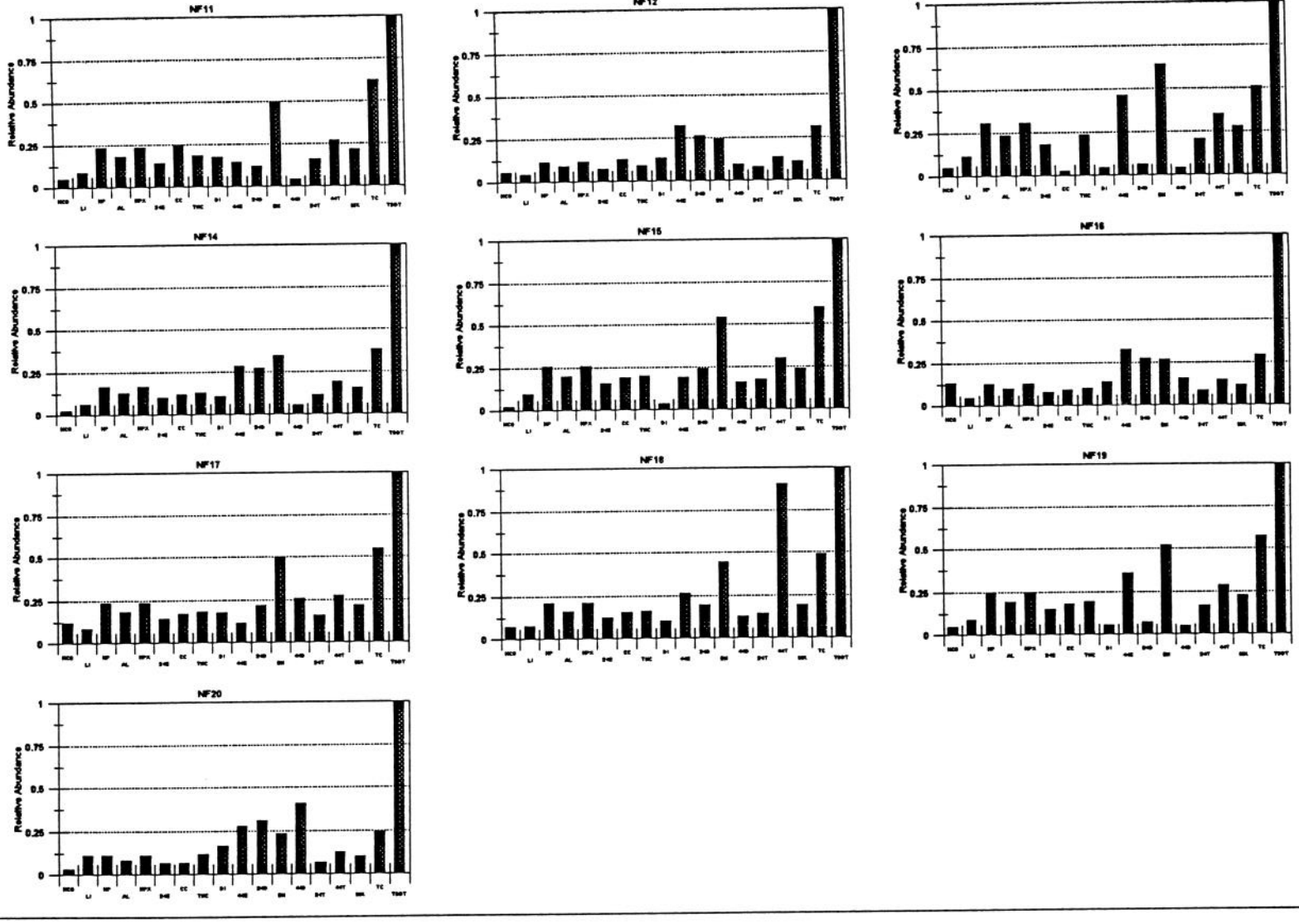
Pesticides in Farfield Sediments

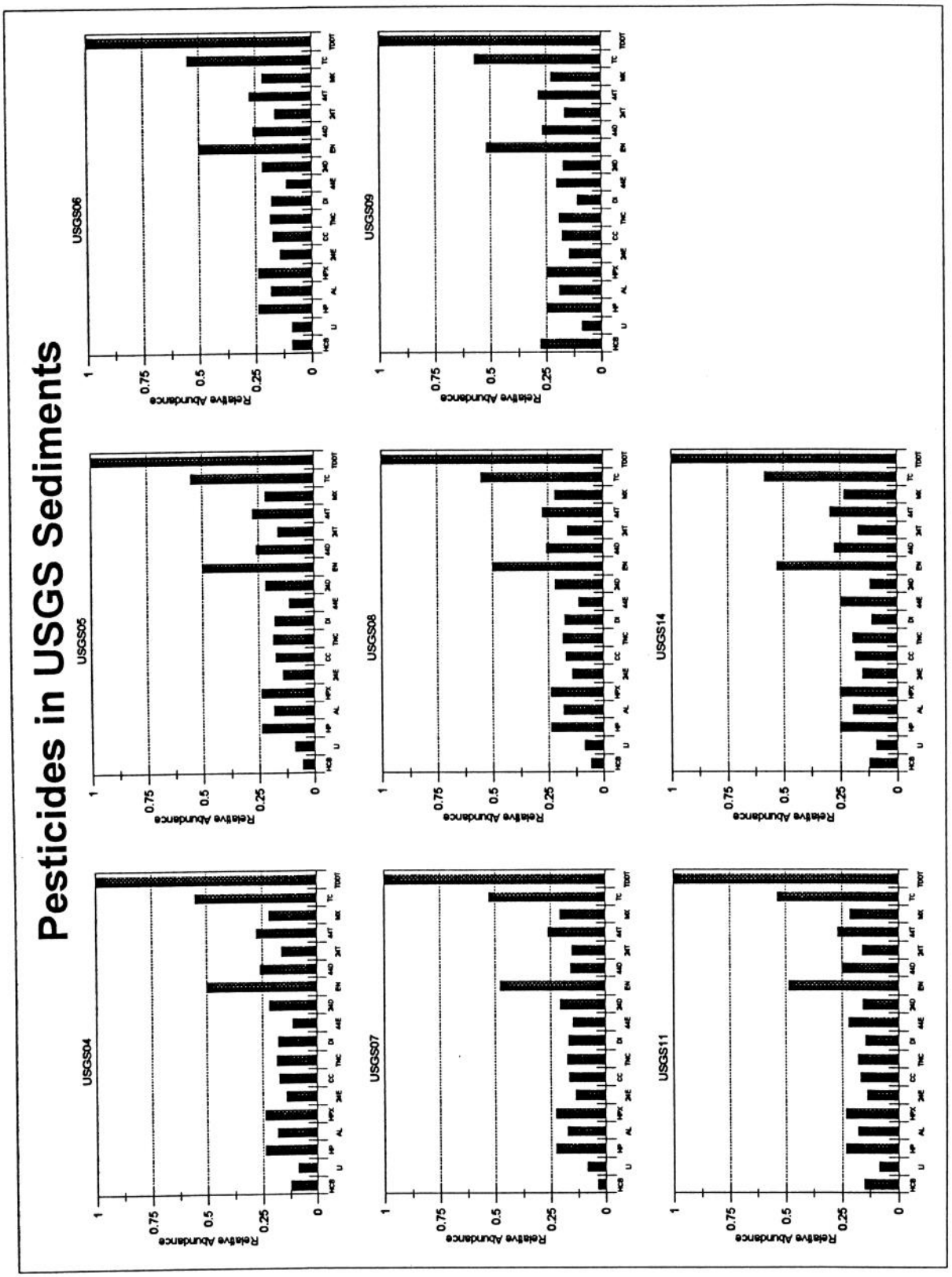


Pesticides in Nearfield Sediments



Pesticides in Nearfield Sediments




Pesticides in USGS Sediments
USGS04
USGS05
USGS06
USGS07
USGS08
USGS09
USGS11
USGS14
Relative Abundance
0
0.25
0.5
0.75
1
HCB
U
HP
AL
HPX
24E
CC
THC
DI
44E
24D
EN
44D
24T
44T
MX
TC
TDDT

Metals Data for Sediment Samples Collected in 1992 (HOM Task 12.1.5)

Station	Ag ug/g	Al %	Cd ug/g	Cr ug/g	Cu ug/g	Fe %	Hg ug/g	Ni ug/g	Pb ug/g	Zn ug/g
N01	0.30	5.09	0.06	53	20	2.80	0.08	17	25	55
N02	3.74	6.47	0.88	199	95	4.15	0.75	37	113	174
N03	0.70	5.61	0.11	62	20	2.15	0.18	17	36	55
N04	0.06	4.04	0.04	27	8	1.14	0.03	11	31	22
N05	0.24	5.32	0.12	79	11	1.85	0.13	10	31	40
N06	0.42	5.52	0.12	98	28	2.04	0.40	13	41	60
N07	0.23	5.27	0.08	68	23	1.89	0.48	17	45	57
N08	3.06	6.35	0.81	282	108	3.82	1.36	32	117	200
N09	0.48	5.76	0.10	85	24	2.36	0.19	23	41	67
N10	0.45	5.81	0.10	68	20	2.03	0.19	19	42	50
N11	0.31	5.19	0.07	62	21	2.33	0.12	15	36	55
N12	0.57	5.98	0.18	95	32	2.54	0.43	25	47	77
N13	0.06	4.41	0.03	30	12	1.54	0.05	11	35	29
N14	0.26	4.49	0.06	64	17	1.88	0.13	17	51	42
N15	0.31	5.18	0.07	62	32	1.83	0.25	15	58	48
N16	1.84	5.90	0.11	174	48	3.52	0.65	33	87	118
N17	0.03	3.88	0.04	31	6	1.53	0.03	11	37	31
N18	0.35	4.85	0.11	61	18	2.04	0.16	15	44	51
N19	0.14	3.95	0.05	40	6	1.48	0.06	8	28	31
N20	0.48	5.74	0.36	126	33	2.91	0.43	20	58	87
F01a	0.28	6.09	0.17	96	18	3.00	0.20	29	54	87
F01b	0.31	6.48	0.20	99	19	2.83	0.19	30	51	85
F04a	0.29	6.59	0.15	101	20	3.32	0.19	35	51	96
F04b	0.31	7.01	0.12	97	21	3.35	0.17	32	55	99
F05a	0.23	5.77	0.10	64	11	2.33	0.10	24	37	62
F05b	0.20	5.74	0.14	54	14	2.01	0.09	18	34	58
F06a	0.45	5.92	0.12	67	18	2.50	0.16	22	38	63
F06b	0.64	6.15	0.13	81	21	2.84	0.20	25	45	74
F07a	0.39	6.47	0.20	82	22	3.40	0.15	35	44	102
F07b	0.48	6.65	0.23	84	20	3.54	0.17	29	46	98
F08a	0.14	7.32	0.15	80	23	3.97	0.04	40	36	115
F08b	0.08	7.35	0.15	79	23	3.80	0.04	40	37	107
F09a	0.13	5.53	0.08	48	12	2.09	0.07	13	33	43
F09b	0.07	5.28	0.09	44	8	1.80	0.06	14	29	40
F10a	0.36	5.17	0.13	84	13	1.93	0.10	16	33	57
F10b	0.34	4.74	0.13	72	13	1.84	0.08	14	33	46
F11a	0.24	5.92	0.19	77	18	2.64	0.13	27	42	79
F11b	0.14	5.54	0.16	65	16	2.41	0.11	27	37	68
F12a	0.58	5.21	0.20	58	21	2.08	0.20	11	33	49
F12b	0.96	5.48	0.39	87	29	2.31	0.30	16	45	66
F13a	1.59	5.60	0.41	77	32	2.87	0.35	27	47	83
F13b	0.62	5.69	0.15	72	28	3.09	0.13	24	33	160
F14a	0.20	6.44	0.16	81	17	2.73	0.15	22	47	76
F14b	0.23	6.00	0.14	82	17	2.78	0.15	28	48	83