APPENDIX F - CRAB TISSUE SURVEY LABORATORY RESULTS

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Sample Name	ETX0738.D	ETX0739.D	ETX0740.D	ETX0741.D	ETX0744.D
Client Name	C0-1 thru C0-4 Crabs	C0-5 thru C0-8 Crabs	C0-9 thru C0-12 Crabs	C0-13 thru C0-16 Crabs	C1-1 thru C1-4 Crabs
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Received Date	4/15/00	4/15/00	4/15/00	4/15/00	4/15/00
Extraction Date	4/16/00	4/16/00	4/16/00	4/16/00	4/16/00
Extraction Batch	ENV 173	ENV 173	ENV 173	ENV 173	ENV 173
Date Acquired	04/19/00	04/19/00	04/19/00	04/20/00	04/20/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	7.2	7.2	6.8	6.8	12.2
% Moisture	73	69	72	73	74
% Dry	27	31	28	27	26
% Lipid Based on Wet Weight	4.2	4.4	3.5	4.3	5.1
% Lipid Based on Dry Weight	15.4	14.2	12.6	15.8	19.6

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	6.9	J	6.3	J	8.4		8.1	J	6.1	J
C1-Naphthalenes	28.9		26.8		41.6		40.5		24.0	
C2-Naphthalenes	25.0		21.7		29.3		45.6		27.0	
C3-Naphthalenes	23.3		18.4		18.5		47.7		33.6	
C4-Naphthalenes	13.8		11.4		8.9		40.2		28.1	
Biphenyl	0.9	J UB	0.9	J UB	1.3	J UB	0.8	J UB	0.6	J UB
Acenaphthylene	0.5	J	0.6	J	0.1	J	0.1	J	0.1	J
Acenaphthene	1.7	J	1.5	J	1.6	J	2.9		1.9	J
Fluorene	1.2	J	1.0	J	1.6	J	1.2	J	1.1	J
C1-Fluorenes	3.4	J	3.4	J	3.3	J	5.9		5.1	J
C2-Fluorenes	6.5		5.0	J	4.6	J	11.9		10.4	
C3-Fluorenes	7.9		7.3		5.7	J	20.1		18.7	
Anthracene	0.3	J	0.3	J	0.3	J	0.3	J	0.4	J
Phenanthrene	4.0		3.5		3.5		4.6		4.5	
C1-Phenanthrenes/Anthracenes	8.9		5.9	J	5.5	J	12.0		12.9	
C2-Phenanthrenes/Anthracenes	14.3		8.6		8.1		23.2		26.5	
C3-Phenanthrenes/Anthracenes	20.2		9.3		8.2		33.1		37.1	
C4-Phenanthrenes/Anthracenes	14.6		4.6	J	3.8	J	25.5		28.8	
Dibenzothiophene	1.6	J	1.4	J	1.5	J	1.4	J	1.3	J
C1-Dibenzothiophenes	1.9	J	1.6	J	1.4	J	2.2	J	2.7	J
C2-Dibenzothiophenes	3.2	J	2.0	J	1.9	J	3.1	J	4.8	
C3-Dibenzothiophenes	4.0	J	2.6	J	2.1	J	6.1		8.3	
Fluoranthene	0.9	J	0.4	J	0.3	J	0.7	J	0.5	J
Pyrene	1.8	J	0.9	J	0.8	J	1.9	J	2.1	J
C1-Fluoranthenes/Pyrenes	4.1	J	1.6	J	2.0	J	6.7	J	7.2	
C2-Fluoranthenes/Pyrenes	6.9	J	2.6	J	2.4	J	10.4		13.8	
C3-Fluoranthenes/Pyrenes	6.1	J	2.3	J	2.2	J	11.4		14.4	
Benz(a)anthracene	0.9	J	0.4	J UB	0.4	J UB	1.1	J	1.3	J
Chrysene	1.8	J	0.8	J UB	0.8	J UB	3.0		3.5	
C1-Chrysenes	4.1	J	1.9	J	1.5	J	4.3	J	9.9	
C2-Chrysenes	5.2		2.1	J	2.1	J	6.6		10.4	
C3-Chrysenes	3.2	J		U		U	3.8	J	5.0	J
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	1.3	J UB	0.3	J UB	0.4	J UB	1.0	J UB	0.4	J UB
Benzo(k)fluoranthene	0.9	J	0.4	J UB	0.1	J UB	0.3	J UB	0.1	J UB
Benzo(e)pyrene	1.2	J	0.4	J UB	0.3	J UB	0.8	J	0.8	J
Benzo(a)pyrene	1.0	J	0.3	J UB	0.3	J UB	0.3	J UB	0.5	J
Perylene	1.0	J	1.3	J	0.6	J	0.7	J	0.4	J
Indeno(1,2,3-c,d)pyrene	0.8	J	0.4	J	0.2	J	0.6	J	0.2	J
Dibenzo(a,h)anthracene	0.6	J		U		U	0.4	J	0.2	J
Benzo(g,h,i)perylene	1.0	J	0.4	J	0.4	J	0.5	J	0.3	J
Total PAHs	236		161		176		391		355	
Selected Ratios										
D2/P2	0.224		0.233		0.235		0.134		0.181	
D3/P3	0.198		0.280		0.256		0.184		0.224	
D2/C2	0.615		0.952		0.905		0.470		0.462	
D3/C3	1.250		NA		NA		1.605		1.660	
Individual Isomers										
2-Methylnaphthalene	19.5		18.0		29.4		26.1		15.5	
1-Methylnaphthalene	9.5		8.8		12.2		14.4		8.5	
2,6-Dimethylnaphthalene	10.3		9.4		15.6		17.2		10.3	
1,6,7-Trimethylnaphthalene	1.2	J	0.8	J	0.8	J	1.8	J	1.4	J
1-Methylphenanthrene	0.9	J	0.5	J	0.7	J	0.8	J	1.2	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	68	57	58	55	61
Acenaphthene-d10	65	59	62	60	75
Phenanthrene-d10	69	60	64	69	73
Chrysene-d12	67	54	54	65	71
Perylene-d12	61	58	58	57	64

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, NA=Not Applicable,*=Outside QA limits, refer to narrative

B&B Laboratories Project J00136
Report 00-466

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Client Project # 729901

Sample Name	ETX0745.D	ETX0746.D	ETX0747.D	ETX0749.D	ETX0750.D
Client Name	C1-5 thru C1-8 Crabs	C1-9 thru C1-12 Crabs	C1-13 thru C1-16 Crabs	C3-1 thru C3-4 Crabs	C3-5 thru C3-8 Crabs
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	4/14/00	4/14/00	4/14/00	4/14/00	4/14/00
Received Date	4/15/00	4/15/00	4/15/00	4/15/00	4/15/00
Extraction Date	4/16/00	4/16/00	4/16/00	4/16/00	4/16/00
Extraction Batch	ENV 173	ENV 173	ENV 173	ENV 173	ENV 173
Date Acquired	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	6.6	7.1	7.4	6.6	7.5
% Moisture	69	76	77	77	76
% Dry	31	24	23	23	24
% Lipid Based on Wet Weight	4.0	3.2	3.9	2.7	2.4
% Lipid Based on Dry Weight	13.0	13.5	16.9	12.0	10.2

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	9.3		3.9	J UB	6.9	J	5.6	J	6.9	J
C1-Naphthalenes	44.7		16.1		32.8		28.8		45.8	
C2-Naphthalenes	41.0		17.8		32.1		30.8		59.0	
C3-Naphthalenes	38.6		23.3		32.2		40.9		77.1	
C4-Naphthalenes	29.2		19.5		24.1		34.2		65.5	
Biphenyl	1.4	J UB	0.7	J UB	1.5	J UB	1.1	J UB	1.9	J UB
Acenaphthylene	0.1	J		U	0.1	J	0.1	J	0.1	J
Acenaphthene	2.3	J	1.1	J	1.8	J	1.3	J	2.7	
Fluorene	1.9	J	0.9	J	1.9	J	1.8	J	3.1	
C1-Fluorenes	5.8		3.1	J	4.8	J	6.8		11.4	
C2-Fluorenes	10.7		7.7		10.8		16.7		29.8	
C3-Fluorenes	23.7		15.6		17.9		25.5		41.0	
Anthracene	0.6	J	0.3	J	0.5	J	0.9	J	1.2	J
Phenanthrene	5.9		3.4		5.6		6.7		9.5	
C1-Phenanthrenes/Anthracenes	13.3		8.7		13.8		23.5		29.4	
C2-Phenanthrenes/Anthracenes	24.9		18.4		27.9		46.1		61.1	
C3-Phenanthrenes/Anthracenes	31.4		26.6		36.3		49.9		66.5	
C4-Phenanthrenes/Anthracenes	28.3		20.9		24.8		33.1		39.8	
Dibenzothiophene	1.6	J	1.3	J	1.6	J	2.0	J	2.6	
C1-Dibenzothiophenes	2.4	J	2.0	J	2.8	J	4.3		4.4	
C2-Dibenzothiophenes	4.6		3.2	J	5.1		9.8		10.5	
C3-Dibenzothiophenes	7.4		5.1		6.9		12.9		15.7	
Fluoranthene	0.6	J	0.5	J	0.5	J	0.7	J	0.6	J
Pyrene	1.8	J	1.5	J	1.8	J	4.3		5.8	
C1-Fluoranthenes/Pyrenes	5.8	J	5.3	J	6.4	J	12.8		16.6	
C2-Fluoranthenes/Pyrenes	10.9		7.9		12.3		20.9		24.3	
C3-Fluoranthenes/Pyrenes	8.0		5.8	J	7.5		11.5		11.6	
Benz(a)anthracene	1.1	J	2.2	J	1.2	J	2.5	J	1.7	J
Chrysene	3.0		2.3	J	2.4	J	4.9		5.9	
C1-Chrysenes	5.4		3.7	J	5.4		11.8		9.3	
C2-Chrysenes	5.1	J	5.0	J	6.8		11.6		11.3	
C3-Chrysenes	3.6	J	2.7	J	3.5	J	5.6		5.2	
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	0.5	J UB	1.1	J UB	0.3	J UB	1.1	J UB	0.7	J UB
Benzo(k)fluoranthene	0.3	J UB	0.8	J	0.3	J UB	0.5	J	0.3	J UB
Benzo(e)pyrene	0.8	J	1.0	J	0.9	J	1.4	J	1.5	J
Benzo(a)pyrene	0.5	J	0.7	J	0.7	J	0.8	J	0.6	J
Perylene	0.3	J	0.9	J	0.6	J	0.3	J	0.2	J
Indeno(1,2,3-c,d)pyrene	0.5	J	0.5	J	0.5	J	0.3	J	0.3	J
Dibenzo(a,h)anthracene	0.4	J	0.5	J	0.2	J	0.4	J		U
Benzo(g,h,i)perylene	0.5	J	0.6	J	0.6	J	0.6	J	0.6	J
Total PAHs	378		242		344		475		681	
Selected Ratios										
D2/P2	0.185		0.174		0.183		0.213		0.172	
D3/P3	0.236		0.192		0.190		0.259		0.236	
D2/C2	0.902		0.640		0.750		0.845		0.929	
D3/C3	2.056		1.889		1.971		2.304		3.019	
Individual Isomers										
2-Methylnaphthalene	31.1		10.6		22.2		19.7		30.4	
1-Methylnaphthalene	13.6		5.5		10.6		9.1		15.4	
2,6-Dimethylnaphthalene	20.0		6.9		14.5		15.0		26.5	
1,6,7-Trimethylnaphthalene	1.6	J	1.5	J	1.5	J	3.4	J	4.0	
1-Methylphenanthrene	1.3	J	1.4	J	2.1	J	4.1		4.0	

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	63	55	58	55	59
Acenaphthene-d10	71	63	63	60	66
Phenanthrene-d10	68	62	61	58	62
Chrysene-d12	64	52	52	51	58
Perylene-d12	69	68	61	63	65

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, NA=Not Applicable, *=Outside QA limits, refer to narrative

2/9/01

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Sample Name	ETX0751.D	ETX0752.D	ETX0755.D	ETX0756.D	ETX0757.D
Client Name	C3-9 thru C3-12 Crabs	C3-13 thru C3-16 Crabs	C4-1 thru C4-4 Crabs	C4-5 thru C4-8 Crabs	C4-9 thru C4-12 Crabs
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	4/14/00	4/14/00	4/13/00	4/13/00	4/13/00
Received Date	4/15/00	4/15/00	4/15/00	4/15/00	4/15/00
Extraction Date	4/16/00	4/16/00	4/16/00	4/16/00	4/16/00
Extraction Batch	ENV 173	ENV 173	ENV 173	ENV 173	ENV 173
Date Acquired	04/20/00	04/20/00	04/20/00	04/20/00	04/20/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	9.5	12.6	6.6	11.1	6.3
% Moisture	75	76	77	78	78
% Dry	25	24	23	22	22
% Lipid Based on Wet Weight	3.4	5.5	3.5	4.8	2.9
% Lipid Based on Dry Weight	13.6	23.1	15.0	21.6	12.9

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	5.1	J	7.1	J	1.9	J	2.0	J UB	1.9	J UB
C1-Naphthalenes	26.8		40.5		2.9	J	4.1	J	2.1	J UB
C2-Naphthalenes	34.0		44.6		2.5	J	2.8	J	1.8	J
C3-Naphthalenes	46.8		56.1		1.7	J	1.6	J	1.1	J
C4-Naphthalenes	44.8		51.2		0.8	J	0.7	J		U
Biphenyl	1.5	J	1.7	J	0.4	J	0.3	J	0.4	J
Acenaphthylene		U		U		U	0.1	J	0.1	J
Acenaphthene	1.6	J	2.0	J	0.3	J	0.6	J	0.1	J
Fluorene	1.9	J	3.0		0.3	J	0.4	J	0.2	J
C1-Fluorenes	8.3		10.2		0.5	J	0.5	J	0.4	J
C2-Fluorenes	22.3		27.6			U	0.5	J		U
C3-Fluorenes	30.0		36.8			U	2.2	J		U
Anthracene	0.7	J	1.0	J	1.1	J	0.1	J	0.1	J
Phenanthrene	8.2		10.7		0.9	J UB	1.0	J	0.7	J UB
C1-Phenanthrenes/Anthracenes	28		32.8		1.0	J	1.1	J	0.8	J
C2-Phenanthrenes/Anthracenes	54.8		65.4		1.2	J	1.1	J	0.6	J
C3-Phenanthrenes/Anthracenes	58.2		69.7		1.4	J	0.5	J	0.6	J
C4-Phenanthrenes/Anthracenes	39.4		42.3		1.0	J		U		U
Dibenzothiophene	1.7	J	2.3		0.2	J	0.2	J	0.2	J
C1-Dibenzothiophenes	5.1		5.8		0.4	J	0.3	J	0.4	J
C2-Dibenzothiophenes	12.8		12.5		0.4	J		U		U
C3-Dibenzothiophenes	14.2		14.2		0.7	J		U		U
Fluoranthene	0.8	J	0.7	J	0.2	J	0.2	J	0.2	J
Pyrene	5.1		6.5		0.3	J	0.2	J	0.3	J
C1-Fluoranthenes/Pyrenes	15.6		18.0		0.6	J	0.3	J	0.3	J
C2-Fluoranthenes/Pyrenes	25.0		30.3		0.8	J		U		U
C3-Fluoranthenes/Pyrenes	13.2		14.9			U		U		U
Benz(a)anthracene	2.6	J	2.7	J	0.3	J UB	0.1	J UB	0.1	J UB
Chrysene	6.7		7.6		0.5	J UB	0.1	J UB	0.2	J UB
C1-Chrysenes	14.4		14.2		0.4	J		U		U
C2-Chrysenes	14.6		13.9			U		U		U
C3-Chrysenes	6.1		6.1			U		U		U
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	0.9	J UB	0.9	J UB	0.7	J UB		U	0.5	J UB
Benzo(k)fluoranthene	0.4	J UB	0.3	J UB	0.7	J		U	0.2	J UB
Benzo(e)pyrene	1.5	J	1.6	J	0.7	J		U		U
Benzo(a)pyrene	0.8	J	0.7	J	0.4	J UB		U		U
Perylene	0.6	J	0.3	J	0.5	J		U		U
Indeno(1,2,3-c,d)pyrene	0.3	J	0.2	J	0.3	J		U	0.2	J
Dibenzo(a,h)anthracene		U	0.2	J	0.4	J		U		U
Benzo(g,h,i)perylene	0.4	J	0.5	J	0.4	J	0.3	J	0.2	J
Total PAHs	555		657		26.8		21.2		13.4	
Selected Ratios										
D2/P2	0.234		0.191		0.333		NA		NA	
D3/P3	0.244		0.204		0.500		NA		NA	
D2/C2	0.877		0.899		NA		NA		NA	
D3/C3	2.328		2.328		NA		NA		NA	
Individual Isomers										
2-Methylnaphthalene	18.2		28.0		1.9	J	2.9	J	1.4	J
1-Methylnaphthalene	8.6		12.5		1.0	J	1.2	J	0.7	J UB
2,6-Dimethylnaphthalene	15.9		22.5		0.9	J	1.3	J	0.6	J
1,6,7-Trimethylnaphthalene	2.7	J	3.6	J	0.2	J	0.2	J	0.1	J
1-Methylphenanthrene	4.2		4.1		0.3	J	0.2	J	0.2	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	51	56	71	67	70
Acenaphthene-d10	59	60	76	71	73
Phenanthrene-d10	60	60	76	72	83
Chrysene-d12	55	57	65	50	54
Perylene-d12	52	53	67	71	78

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, NA=Not Applicable,*=Outside QA limits, refer to narrative

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Sample Name	ETX0758.D	ETX0760.D	ETX0761.D	ETX0762.D
Client Name	C4-13 thru C4-16 Crabs	C5-1 thru C5-4 Crabs	C5-5 thru C5-8 Crabs	C5-9 thru C5-12 Crabs
Matrix	Tissue	Tissue	Tissue	Tissue
Collection Date	4/13/00	4/13/00	4/13/00	4/13/00
Received Date	4/15/00	4/15/00	4/15/00	4/15/00
Extraction Date	4/16/00	4/16/00	4/16/00	4/16/00
Extraction Batch	ENV 173	ENV 173	ENV 173	ENV 173
Date Acquired	04/20/00	04/20/00	04/20/00	04/20/00
Method	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	6.1	6.5	8.2	7.2
% Moisture	71	76	76	77
% Dry	29	24	24	23
% Lipid Based on Wet Weight	2.7	3.9	3.0	3.2
% Lipid Based on Dry Weight	9.4	16.5	12.2	14.4

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	2.3	J UB	1.6	J UB	1.9	J UB	2.1	J UB
C1-Naphthalenes	3.0	J	1.6	J UB	1.4	J UB	1.9	J UB
C2-Naphthalenes	2.3	J	0.7	J	0.8	J	0.9	J
C3-Naphthalenes	1.3	J	0.5	J		U		U
C4-Naphthalenes		U		U		U		U
Biphenyl	0.4	J UB	0.4	J UB	0.3	J UB	0.3	J UB
Acenaphthylene	0.1	J	0.1	J	0.1	J	0.1	J
Acenaphthene	0.3	J	0.3	J	0.3	J	0.3	J
Fluorene	0.2	J	0.1	J	0.2	J	0.2	J
C1-Fluorenes	0.6	J		U		U		U
C2-Fluorenes		U		U		U		U
C3-Fluorenes		U		U		U		U
Anthracene	0.2	J	0.1	J	0.1	J	0.1	J
Phenanthrene	0.8	J UB	0.5	J UB	0.4	J UB	0.5	J UB
C1-Phenanthrenes/Anthracenes	1.3	J		U		U		U
C2-Phenanthrenes/Anthracenes	1.1	J		U		U		U
C3-Phenanthrenes/Anthracenes	0.8	J		U		U		U
C4-Phenanthrenes/Anthracenes		U		U		U		U
Dibenzothiophene	0.3	J	0.1	J	0.1	J	0.1	J
C1-Dibenzothiophenes		U		U		U		U
C2-Dibenzothiophenes		U		U		U		U
C3-Dibenzothiophenes		U		U		U		U
Fluoranthene	0.2	J	0.1	J	0.2	J	0.2	J
Pyrene	0.2	J	0.1	J	0.2	J	0.1	J
C1-Fluoranthenes/Pyrenes		U		U		U		U
C2-Fluoranthenes/Pyrenes		U		U		U		U
C3-Fluoranthenes/Pyrenes		U		U		U		U
Benz(a)anthracene		U	0.1	J UB	0.1	J UB		U
Chrysene	0.1	J	0.1	J UB	0.1	J UB		U
C1-Chrysenes		U		U		U		U
C2-Chrysenes		U		U		U		U
C3-Chrysenes		U		U		U		U
C4-Chrysenes		U		U		U		U
Benzo(b)fluoranthene		U		U		U		U
Benzo(k)fluoranthene		U		U		U		U
Benzo(e)pyrene		U		U		U		U
Benzo(a)pyrene		U		U		U		U
Perylene		U		U		U		U
Indeno(1,2,3-c,d)pyrene		U		U		U		U
Dibenzo(a,h)anthracene		U		U		U		U
Benzo(g,h,i)perylene		U		U		U		U
Total PAHs	15.3		6.4	J	6.0		6.6	
Selected Ratios								
D2/P2	NA		NA		NA		NA	
D3/P3	NA		NA		NA		NA	
D2/C2	NA		NA		NA		NA	
D3/C3	NA		NA		NA		NA	
Individual Isomers								
2-Methylnaphthalene	2.1	J	1.1	J UB	1.0	J UB	1.4	J UB
1-Methylnaphthalene	0.9	J UB	0.5	J UB	0.5	J UB	0.5	J UB
2,6-Dimethylnaphthalene	1.0	J	0.2	J	0.3	J	0.3	J
1,6,7-Trimethylnaphthalene	0.1	J		U	0.1	J	0.1	J
1-Methylphenanthrene	0.2	J	0.2	J	0.1	J	0.1	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	68	65	70	61
Acenaphthene-d10	70	65	72	68
Phenanthrene-d10	79	73	81	76
Chrysene-d12	56	48	57	52
Perylene-d12	66	62	68	61

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, NA=Not Applicable,*=Outside QA limits, refer to narrative

2/19/01

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Sample Name	ETX0742.D	ETX0748.D	ETX0753.D	ETX0754.D	ETX0759.D
Client Name	C0-17 thru C0-20 Crabs	C1-17 thru C1-20 Crabs	C3-17 thru C3-20 Crabs	C3-21 thru C3-24 Crabs	C4-17 thru C4-21 Crabs
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	4/14/00	4/14/00	4/14/00	4/14/00	4/13/00
Received Date	4/15/00	4/15/00	4/15/00	4/15/00	4/15/00
Extraction Date	4/17/00	4/17/00	4/17/00	4/17/00	4/17/00
Extraction Batch	ENV 174	ENV 174	ENV 174	ENV 174	ENV 174
Date Acquired	04/21/00	04/21/00	04/21/00	04/21/00	04/21/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	6.4	6.3	6.8	6.2	6.5
% Moisture	70	77	78	75	73
% Dry	30	23	22	25	27
% Lipid Based on Wet Weight	4.3	3.1	2.6	3.1	5.3
% Lipid Based on Dry Weight	14.1	13.5	12.0	12.3	19.5

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	6.7	J	10.3		9.1		7.5	J	3.2	J UB
C1-Naphthalenes	25.6		43.6		48.3		50.9		4.7	J
C2-Naphthalenes	27.6		46.4		62.8		70.5		4.5	J
C3-Naphthalenes	29.6		54.7		72.2		86.7		2.9	J
C4-Naphthalenes	25.0		45.3		55.4		70.4		1.7	J
Biphenyl	<1.0	J UB	1.5	J UB	1.4	J UB	1.8	J UB	<1.0	J UB
Acenaphthylene	<1.0	J	<1.0	J	<1.0	J		U		U
Acenaphthene	1.6	J	2.5		3.2		3.3		<1.0	J
Fluorene	<1.0	J	1.7	J	2.3	J	2.8	J	<1.0	J
C1-Fluorenes	3.1	J	7.2		8.7		10.9		<1.0	J
C2-Fluorenes	7.1		17.8		21.8		27.0			U
C3-Fluorenes	13.8		31.4		36.1		37.8			U
Anthracene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Phenanthrene	3.5		6.0		7.8		10.3		1.8	J
C1-Phenanthrenes/Anthracenes	8.4		19.5		22.8		31.3		2.3	J
C2-Phenanthrenes/Anthracenes	17.9		45.1		45.3		64.5		2.6	J
C3-Phenanthrenes/Anthracenes	27.1		64.4		53.8		71.9		2.1	J
C4-Phenanthrenes/Anthracenes	22.5		52.5		35.6		50.7		<1.0	J
Dibenzothiophene	1.3	J	1.2	J	1.7	J	2.3		<1.0	J
C1-Dibenzothiophenes	1.9	J	3.3	J	4.1		6.0		<1.0	J
C2-Dibenzothiophenes	2.6	J	9.7		10.8		13.6			U
C3-Dibenzothiophenes	5.5		13.8		12.7		18.9			U
Fluoranthene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Pyrene	1.4	J	3.0	J	3.6	J	4.8		<1.0	J
C1-Fluoranthenes/Pyrenes	3.1	J	11.8		10.8		15.5		<1.0	J
C2-Fluoranthenes/Pyrenes	7.6		25.0		19.4		26.3			U
C3-Fluoranthenes/Pyrenes	9.4		18.9		12.7		17.2			U
Benz(a)anthracene	<1.0	J	2.2	J	1.5	J	2.3	J	<1.0	J
Chrysene	1.9	J	5.8		4.6		5.9		<1.0	J UB
C1-Chrysenes	4.3	J	12.2		9.7		12.5			U
C2-Chrysenes	5.8		16.5		13.3		14.6			U
C3-Chrysenes	2.7	J	8.7		7.1		7.7			U
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	<1.0	J	1.9		0.7	J	<1.0	J		U
Benzo(k)fluoranthene	<1.0	J	1.3	J	0.4	J	<1.0	J		U
Benzo(e)pyrene	<1.0	J UB	2.6	UB	1.5	J UB	1.6	J UB		U
Benzo(a)pyrene	<1.0	J UB	1.0	J UB	0.7	J UB	<1.0	J UB		U
Perylene	1.2	J UB	1.6	J UB	0.2	J UB	<1.0	J UB	<1.0	J UB
Indeno(1,2,3-c,d)pyrene		U	<1.0	J	0.3	J	<1.0	J		U
Dibenzo(a,h)anthracene		U		U		U		U		U
Benzo(g,h,i)perylene	<1.0	J UB	1.3	UB	<1.0	J UB	<1.0	J UB		U
Total PAHs	269		592		602		747		27.8	
Selected Ratios										
D2/P2	0.145		0.215		0.238		0.211		NA	
D3/P3	0.203		0.214		0.236		0.263		NA	
D2/C2	0.448		0.588		0.812		0.932		NA	
D3/C3	2.037		1.586		1.789		2.455		NA	
Individual Isomers										
2-Methylnaphthalene	16.7		29.3		30.9		33.2		3.1	J
1-Methylnaphthalene	9.0		14.3		17.4		17.7		1.6	J
2,6-Dimethylnaphthalene	8.3		19.7		24.8		28.9		1.9	J
1,6,7-Trimethylnaphthalene	1.5	J	3.7		3.8		6.8		<1.0	J
1-Methylphenanthrene	<1.0	J	1.6	J	1.6	J	3.0		<1.0	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	70	53	71	72	63
Acenaphthene-d10	78	60	81	78	64
Phenanthrene-d10	65	57	70	69	64
Chrysene-d12	66	62	63	69	49
Perylene-d12	73	71	72	79	69

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, NA=Not Applicable,*=Outside QA limits, refer to narrativ

JN 2/19/01

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Sample Name	ETX0763.D	ETX0764.D	ETX0765.D
Client Name	C5-13 thru C5-16 Crabs	C5-17 thru C5-20 Crabs	C5-21 thru C5-24 Crabs
Matrix	Tissue	Tissue	Tissue
Collection Date	4/13/00	4/13/00	4/13/00
Received Date	4/15/00	4/15/00	4/15/00
Extraction Date	4/17/00	4/17/00	4/17/00
Extraction Batch	ENV 174	ENV 174	ENV 174
Date Acquired	04/21/00	04/21/00	04/21/00
Method	PAH	PAH	PAH
Sample Wet Weight (g)	6.7	6.3	7.8
% Moisture	80	84	81
% Dry	20	16	19
% Lipid Based on Wet Weight	3.9	2.4	2.5
% Lipid Based on Dry Weight	19.3	15.1	12.8

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	2.8	J UB	3.3	J UB	2.7	J UB
C1-Naphthalenes	2.3	J UB	1.8	J UB	1.5	J UB
C2-Naphthalenes	<1.0	J	1.2	J	1.0	J
C3-Naphthalenes		U		U		U
C4-Naphthalenes		U		U		U
Biphenyl	<1.0	J UB	<1.0	J UB		U
Acenaphthylene	<1.0	J		U		U
Acenaphthene	1.5	J	<1.0	J		U
Fluorene	<1.0	J		U		U
C1-Fluorenes		U		U		U
C2-Fluorenes		U		U		U
C3-Fluorenes		U		U		U
Anthracene	<1.0	J	<1.0	J	<1.0	J
Phenanthrene	<1.0	J UB	<1.0	J UB	<1.0	J UB
C1-Phenanthrenes/Anthracenes		U		U		U
C2-Phenanthrenes/Anthracenes		U		U		U
C3-Phenanthrenes/Anthracenes		U		U		U
C4-Phenanthrenes/Anthracenes		U		U		U
Dibenzothiophene	<1.0	J		U		U
C1-Dibenzothiophenes		U		U		U
C2-Dibenzothiophenes		U		U		U
C3-Dibenzothiophenes		U		U		U
Fluoranthene	<1.0	J		U	<1.0	J
Pyrene	<1.0	J		U	<1.0	J
C1-Fluoranthenes/Pyrenes		U		U		U
C2-Fluoranthenes/Pyrenes		U		U		U
C3-Fluoranthenes/Pyrenes		U		U		U
Benz(a)anthracene		U		U	<1.0	J
Chrysene		U		U	<1.0	J UB
C1-Chrysenes		U		U		U
C2-Chrysenes		U		U		U
C3-Chrysenes		U		U		U
C4-Chrysenes		U		U		U
Benzo(b)fluoranthene		U		U	<1.0	J
Benzo(k)fluoranthene		U		U	<1.0	J
Benzo(e)pyrene		U		U	<1.0	J UB
Benzo(a)pyrene		U		U		U
Perylene		U		U		U
Indeno(1,2,3-c,d)pyrene		U		U		U
Dibenzo(a,h)anthracene		U		U		U
Benzo(g,h,i)perylene		U		U		U
Total PAHs	7.8		6.3		5.2	
Selected Ratios						
D2/P2	NA		NA		NA	
D3/P3	NA		NA		NA	
D2/C2	NA		NA		NA	
D3/C3	NA		NA		NA	
Individual Isomers						
2-Methylnaphthalene	1.4	J UB	1.3	J UB	1.1	J UB
1-Methylnaphthalene	<1.0	J	<1.0	J	<1.0	J
2,6-Dimethylnaphthalene	<1.0	J	<1.0	J	<1.0	J
1,6,7-Trimethylnaphthalene	<1.0	J	<1.0	J		U
1-Methylphenanthrene	<1.0	J		U		U

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	61	63	76
Acenaphthene-d10	64	65	78
Phenanthrene-d10	70	64	69
Chrysene-d12	57	45	54
Perylene-d12	71	60	83

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, NA=Not Applicable,*=Outside QA limits, refer to narrative

2/19/01

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Sample Name	ETX0912.D	ETX0913.D	ETX0914.D	ETX0915.D	ETX0916.D	ETX0917.D
Client Name	ST-7 Crab	ST-8 Crab	ST-9 Crab	ST-10 Crab	Station-4 Crab	Station 1 Crab
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	5/10/00	5/10/00	5/10/00	5/10/00	5/10/00	5/10/00
Received Date	5/12/00	5/12/00	5/12/00	5/12/00	5/12/00	5/12/00
Extraction Date	5/16/00	5/16/00	5/16/00	5/16/00	5/16/00	5/16/00
Extraction Batch	ENV 194	ENV 194	ENV 194	ENV 194	ENV 194	ENV 194
Date Acquired	05/27/00	05/27/00	05/27/00	05/27/00	05/27/00	05/27/00
Method	PAH	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	8.2	7.9	7.7	7.4	6.8	7.5
% Moisture	76	75	78	78	77	76
% Dry	24	25	22	22	23	24
% Lipid Based on Wet Weight	2.0	3.0	2.4	2.0	2.7	2.9
% Lipid Based on Dry Weight	8.5	11.8	10.8	8.9	11.4	12.0

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	5.3	J UB	4.4	J UB	4.9	J UB	4.4	J UB	4.8	J UB	3.1	J UB
C1-Naphthalenes	9.4	UB	7.5	UB	5.2	J UB	8.4	UB	10.4	UB	11.4	UB
C2-Naphthalenes	7.9	UB	5.0	J UB	2.6	J UB	4.8	J UB	7.8	UB	7.7	UB
C3-Naphthalenes	17.4		7.8	UB	2.2	J UB	3.1	J UB	10.5		8.8	UB
C4-Naphthalenes	23.0		9.6		1.5	J	2.0	J	13.6		11.3	
Biphenyl	<1.0	J UB	<1.0	J UB	<1.0	J UB	1.0	J UB	<1.0	J UB	<1.0	J UB
Acenaphthylene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Acenaphthene	<1.0	J	<1.0	J	<1.0	J	1.7	J	<1.0	J	<1.0	J
Fluorene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Fluorenes	2.6	J	1.3	J	<1.0	J	<1.0	J	2.3	J	1.2	J
C2-Fluorenes	9.2		3.5	J	<1.0	J	<1.0	J	5.0	J	3.5	J
C3-Fluorenes	16.5		6.4		<1.0	J		U	5.3	J	6.5	
Anthracene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Phenanthrene	1.9	J UB	<1.0	J UB	<1.0	J UB	1.6	J UB	1.9	J UB	<1.0	J UB
C1-Phenanthrenes/Anthracenes	8.4		2.7	J	<1.0	J	1.3	J	3.6	J	3.0	J
C2-Phenanthrenes/Anthracenes	20.2		6.1	J	1.1	J	1.9	J	7.3		5.5	J
C3-Phenanthrenes/Anthracenes	26.8		8.4		<1.0	J	1.4	J	8.8		5.7	J
C4-Phenanthrenes/Anthracenes	20.4		8.4			U	<1.0	J	7.9		5.2	J
Dibenzothiophene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Dibenzothiophenes	1.9	J	<1.0	J	<1.0	J	<1.0	J	1.5	J	<1.0	J
C2-Dibenzothiophenes	4.6		1.4	J		U		U	3.4	J	1.3	J
C3-Dibenzothiophenes	6.4		1.6	J		U		U	3.7	J	1.3	J
Fluoranthene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	1.1	J UB	<1.0	J UB
Pyrene	2.2	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	4.1	UB	<1.0	J UB
C1-Fluoranthenes/Pyrenes	5.6	J	1.8	J	<1.0	J	<1.0	J	2.3	J	1.7	J
C2-Fluoranthenes/Pyrenes	10.4		2.0	J		U		U	3.2	J	1.8	J
C3-Fluoranthenes/Pyrenes	5.7	J	1.9	J		U		U	2.0	J	1.2	J
Benz(a)anthracene	1.1	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Chrysene	2.7	UB	<1.0	J UB		U	<1.0	J UB	1.0	J UB	<1.0	J UB
C1-Chrysenes	5.7		<1.0	J		U		U	1.2	J	1.1	J
C2-Chrysenes	5.2		2.1	J		U		U	1.0	J	1.4	J
C3-Chrysenes	4.2	J	<1.0	J		U		U	<1.0	J		U
C4-Chrysenes	<1.0	J		U		U		U		U		U
Benzo(b)fluoranthene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Benzo(k)fluoranthene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Benzo(e)pyrene	1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Benzo(a)pyrene	<1.0	J UB	<1.0	J UB	<1.0	J UB		U	<1.0	J UB	<1.0	J UB
Perylene	1.1	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Indeno(1,2,3-c,d)pyrene	<1.0	J UB	<1.0	J UB	<1.0	J UB		U		U		U
Dibenzo(a,h)anthracene	<1.0	J UB	<1.0	J UB		U		U		U		U
Benzo(g,h,i)perylene	<1.0	J UB	<1.0	J UB	<1.0	J UB		U		U		U
Total PAHs	227		81.9		17.5		31.6		114		84.7	
Selected Ratios												
D2/P2	0.228		0.230		NA		NA		0.466		0.236	
D3/P3	0.239		0.190		NA		NA		0.420		0.228	
D2/C2	0.865		0.667		NA		NA		3.400		0.929	
D3/C3	1.524		2.000		NA		NA		6.167		NA	
Individual Isomers												
2-Methylnaphthalene	6.4	UB	5.1	UB	3.5	J UB	5.7	UB	7.3	UB	7.9	UB
1-Methylnaphthalene	3.0	J UB	2.4	J UB	1.7	J UB	2.7	J UB	3.1	J UB	3.5	UB
2,6-Dimethylnaphthalene	3.5	UB	2.3	J UB	1.0	J UB	1.9	J UB	4.1		4.0	
1,6,7-Trimethylnaphthalene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
1-Methylphenanthrene	1.3	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	58	57	53	53	65	65
Acenaphthene-d10	56	59	64	62	71	70
Phenanthrene-d10	52	55	63	63	69	66
Chrysene-d12	50	49	52	50	61	58
Perylene-d12	59	66	82	71	73	78

9/22/01

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, *=Outside QA limits, refer to narrative

000005

B&B Laboratories Project J00136
Report 00-473

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Client Project # 729901

Sample Name	ETX0918.D	ETX0919.D	ETX0920.D	ETX0942.D	ETX0943.D
Client Name	Caney Creek Crab	Teague Point Crab	Hallowing Point Crab	IC-C1 Crab	TP-C1 Crab
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	5/11/00	5/11/00	5/11/00	5/12/00	5/12/00
Received Date	5/12/00	5/12/00	5/12/00	5/13/00	5/13/00
Extraction Date	5/16/00	5/16/00	5/16/00	5/16/00	5/16/00
Extraction Batch	ENV 194	ENV 194	ENV 194	ENV 194	ENV 194
Date Acquired	05/27/00	05/27/00	05/27/00	05/28/00	05/28/00
Method	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	7.3	6.7	8.0	7.8	6.6
% Moisture	78	75	81	76	75
% Dry	22	25	19	24	25
% Lipid Based on Wet Weight	1.5	3.3	1.8	3.3	3.1
% Lipid Based on Dry Weight	6.8	13.2	9.4	13.3	12.3

Target Compounds	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q	Su Corrected Conc. (ng/wet g)	Q
Naphthalene	3.7	J UB	5.1	J UB	3.1	J UB	4.1	J UB	3.8	J UB
C1-Naphthalenes	12.0	UB	8.0	UB	7.3	UB	9.9	UB	5.7	J UB
C2-Naphthalenes	10.1	UB	7.8	UB	7.4	UB	10.1	UB	5.8	UB
C3-Naphthalenes	13.4		15.4		15.2		14.3		10.7	
C4-Naphthalenes	16.1		18.8		21.6		21.0		14.9	
Biphenyl	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Acenaphthylene	<1.0	J	<1.0	J	<1.0	J UB	<1.0	J	<1.0	J
Acenaphthene	1.3	J	<1.0	J	<1.0	J UB	1.1	J	<1.0	J
Fluorene	<1.0	J	<1.0	J	<1.0	J UB	<1.0	J	<1.0	J
C1-Fluorenes	1.6	J	2.0	J	2.1	J	2.0	J	<1.0	J
C2-Fluorenes	5.2	J	7.4		9.2		5.5	J	5.1	J
C3-Fluorenes	11.1		9.8		13.9		9.5		11.9	
Anthracene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Phenanthrene	1.3	J UB	2.1	J UB	1.7	J UB	1.6	J UB	<1.0	J UB
C1-Phenanthrenes/Anthracenes	6.1	J	5.8	J	9.3		6.5	J	3.6	J
C2-Phenanthrenes/Anthracenes	18.3		14.4		28.6		14.4		10.9	
C3-Phenanthrenes/Anthracenes	25.9		18.6		34.0		20.7		24.2	
C4-Phenanthrenes/Anthracenes	20.9		11.9		23.2		17.2		26.2	
Dibenzothiophene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Dibenzothiophenes	1.5	J	1.5	J	2.1	J	1.2	J	<1.0	J
C2-Dibenzothiophenes	4.4		3.3	J	6.2		2.6	J	2.2	J
C3-Dibenzothiophenes	6.6		5.6		9.1		4.3		4.4	
Fluoranthene	<1.0	J UB	2.1	J	<1.0	J UB	2.0	J	<1.0	J UB
Pyrene	2.0	J UB	7.6		2.8	J UB	2.8	J UB	1.6	J UB
C1-Fluoranthenes/Pyrenes	6.5	J	3.7	J	9.3		5.3	J	4.1	J
C2-Fluoranthenes/Pyrenes	13.0		6.0	J	16.1		8.3		8.2	
C3-Fluoranthenes/Pyrenes	6.0	J	4.0	J	6.6	J	4.9	J	7.0	J
Benz(a)anthracene	1.1	J UB	<1.0	J UB	1.2	J	1.2	J UB	<1.0	J UB
Chrysene	3.2		2.0	J UB	3.7		2.1	J UB	2.2	J UB
C1-Chrysenes	7.1		3.9	J	7.7		4.5	J	3.7	J
C2-Chrysenes	7.5		3.4	J	7.7		5.4		4.1	J
C3-Chrysenes	3.4	J	1.5	J	3.5	J	2.1	J	2.4	J
C4-Chrysenes		U		U		U		U		U
Benzo(b)fluoranthene	1.1	J UB	<1.0	J UB	1.3	J UB	1.5	J UB	1.0	J UB
Benzo(k)fluoranthene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Benzo(e)pyrene	1.3	J UB	1.3	J UB	1.6	J UB	1.4	J UB	<1.0	J UB
Benzo(a)pyrene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Perylene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Indeno(1,2,3-c,d)pyrene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Dibenzo(a,h)anthracene	<1.0	J UB	<1.0	J UB	<1.0	J UB		U		U
Benzo(g,h,i)perylene	1.0	J UB	1.9	UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Total PAHs	218		176		256		187		164	
Selected Ratios										
D2/P2	0.240		0.229		0.217		0.181		0.202	
D3/P3	0.255		0.301		0.268		0.208		0.182	
D2/C2	0.587		0.971		0.805		0.481		0.537	
D3/C3	1.941		3.733		2.600		2.048		1.833	
Individual Isomers										
2-Methylnaphthalene	8.3	UB	5.4	UB	4.7	UB	6.6	UB	3.5	J UB
1-Methylnaphthalene	3.7	UB	2.7	J UB	2.6	J UB	3.4	UB	2.2	J UB
2,6-Dimethylnaphthalene	5.7		3.5	UB	3.3	UB	3.8	UB	1.9	J UB
1,6,7-Trimethylnaphthalene	<1.0	J UB	1.1	J UB	1.0	J UB	<1.0	J UB	<1.0	J UB
1-Methylphenanthrene	<1.0	J	<1.0	J	1.5	J	1.1	J	<1.0	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	63	64	62	69	64
Acenaphthene-d10	61	71	61	69	61
Phenanthrene-d10	59	65	56	67	57
Chrysene-d12	54	56	46	53	48
Perylene-d12	67	75	68	83	74

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, *=Outside QA limits, refer to narrative

8/22/01

B&B Laboratories Project J00136
Report 00-525

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Client Project # 729901

Sample Name	ETX0956.D	ETX0957.D	ETX0958.D	ETX0959.D	ETX0960.D	ETX0961.D
Client Name	Persimmon #1	Persimmon #2	White Point	Washington Creek	Trent Hall #4	Trent Hall #5
Matrix	Tissue	Tissue	Tissue	Tissue	Tissue	Tissue
Collection Date	6/24/00	6/24/00	6/24/00	6/24/00	6/24/00	6/24/00
Received Date	6/27/00	6/27/00	6/28/00	6/28/00	6/27/00	6/27/00
Extraction Date	6/30/00	6/30/00	6/30/00	6/30/00	6/30/00	6/30/00
Extraction Batch	ENV 223	ENV 223	ENV 223	ENV 223	ENV 223	ENV 223
Date Acquired	07/12/00	07/13/00	07/12/00	07/12/00	07/12/00	07/12/00
Method	PAH	PAH	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	7.1	7.1	7.2	7.2	7.2	7.4
% Moisture	81	77	77	78	77	77
% Dry	19	23	23	22	23	23
% Lipid Based on Wet Weight	1.6	2.4	2.2	2.1	2.5	2.3
% Lipid Based on Dry Weight	8.7	10.2	9.5	9.9	10.8	9.9

Target Compounds	Su Corrected Conc. (ng/dry g)	Q	Su Corrected Conc. (ng/dry g)	Q	Su Corrected Conc. (ng/dry g)	Q	Su Corrected Conc. (ng/dry g)	Q	Su Corrected Conc. (ng/dry g)	Q	Su Corrected Conc. (ng/dry g)	Q
Naphthalene	2.7	J VB	2.3	J VB	3.3	J VB	4.4	J VB	4.7	J VB	4.1	J VB
C1-Naphthalenes	2.2	J VB	1.7	J VB	2.5	J VB	3.1	J VB	2.2	J VB	1.9	J VB
C2-Naphthalenes	2.0	J	1.2	J	1.8	J	2.4	J	2.0	J	1.7	J
C3-Naphthalenes	1.6	J	1.0	J	2.0	J	2.5	J	2.8	J	2.2	J
C4-Naphthalenes	1.6	J	1.3	J	2.7	J	3.4	J	2.7	J	2.3	J
Biphenyl	<1.0	JVB	<1.0	JVB	<1.0	JVB	<1.0	JVB	<1.0	JVB	<1.0	JVB
Acenaphthylene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Acenaphthene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Fluorene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Fluorenes	<1.0	J		U	<1.0	J		U	<1.0	J	<1.0	J
C2-Fluorenes	1.4	J		U	1.6	J		U	1.7	J	1.5	J
C3-Fluorenes	2.6	J	1.3	J	2.8	J	2.9	J	2.8	J	2.0	J
Anthracene	<1.0	J	<1.0	J	<1.0	J		U	1.1	J	<1.0	J
Phenanthrene	<1.0	JVB	<1.0	JVB	<1.0	JVB	<1.0	JVB	<1.0	JVB	<1.0	JVB
C1-Phenanthrenes/Anthracenes	2.0	J	<1.0	J	1.6	J	1.6	J	2.1	J	1.6	J
C2-Phenanthrenes/Anthracenes	4.8	J	2.5	J	4.9	J	2.5	J	4.2	J	2.9	J
C3-Phenanthrenes/Anthracenes	7.7		4.5	J	8.7		6.7	J	8.4		4.3	J
C4-Phenanthrenes/Anthracenes	4.4	J	3.0	J	6.2	J	6.5	J	7.6		3.7	J
Dibenzothiophene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Dibenzothiophenes	<1.0	J		U		U		U	<1.0	J	<1.0	J
C2-Dibenzothiophenes	1.0	J		U	1.0	J		U	1.2	J	<1.0	J
C3-Dibenzothiophenes	1.6	J		U	1.8	J	1.2	J	1.5	J	<1.0	J
Fluoranthene	1.8	JVB	<1.0	JVB	1.3	JVB	1.5	JVB	3.2	JVB	1.1	JVB
Pyrene	5.2	JVB	2.5	JVB	3.5	JVB	4.5	JVB	6.3	JVB	3.3	JVB
C1-Fluoranthenes/Pyrenes	1.8	J	1.3	J	1.7	J	1.0	J	3.6	J	1.0	J
C2-Fluoranthenes/Pyrenes	2.4	J	<1.0	J	2.6	J	1.2	J	2.1	J	1.4	J
C3-Fluoranthenes/Pyrenes	1.6	J	1.0	J	2.0	J	1.7	J	2.5	J	1.0	J
Benz(a)anthracene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	1.7	J	<1.0	J
Chrysene	1.1	J	<1.0	J	1.3	J	1.0	J	3.8		<1.0	J
C1-Chrysenes	1.3	J		U	1.2	J		U	1.7	J		U
C2-Chrysenes	<1.0	J		U		U		U		U		U
C3-Chrysenes		U		U		U		U		U		U
C4-Chrysenes		U		U		U		U		U		U
Benzo(b)fluoranthene	<1.0	J		U		U		U	3.4			U
Benzo(k)fluoranthene	<1.0	J		U		U		U	5.0			U
Benzo(e)pyrene	<1.0	J		U		U		U	4.0			U
Benzo(a)pyrene	<1.0	J		U		U		U	2.6	J		U
Perylene		U		U		U		U	2.7			U
Indeno(1,2,3-c,d)pyrene		U		U		U		U	<1.0	J		U
Dibenzo(a,h)anthracene		U		U		U		U	<1.0	J		U
Benzo(g,h,i)perylene		U		U		U		U	<1.0	J		U
Total PAH	56.5		28.5		57.6		50.8		93.8		41.3	
Selected Ratios												
D2/P2	0.217		NA		0.204		NA		0.286		0.172	
D3/P3	0.208		NA		0.207		0.179		0.179		0.186	
D2/C2	1.429		NA		NA		NA		NA		NA	
D3/C3	NA		NA		NA		NA		NA		NA	
Individual Isomers												
2-Methylnaphthalene	1.3	J VB	1.1	J VB	1.6	J VB	1.9	J VB	1.3	J VB	1.3	J VB
1-Methylnaphthalene	<1.0	JVB	<1.0	JVB	1.0	JVB	1.2	JVB	1.0	JVB	<1.0	JVB
2,6-Dimethylnaphthalene	<1.0	J	<1.0	J	<1.0	J	1.3	J	1.1	J	<1.0	J
1,6,7-Trimethylnaphthalene	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J	<1.0	J
1-Methylphenanthrene	1.0	J	<1.0	J	<1.0	J	1.0	J	<1.0	J	<1.0	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	52	55	55	60	61	59
Acenaphthene-d10	52	56	57	57	62	55
Phenanthrene-d10	66	70	73	62	63	63
Chrysene-d12	57	56	56	56	58	51
Perylene-d12	57	69	61	62	76	69

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, *=Outside QA limits, refer to narrative

10/20/00

Entrix, Inc.
Pepco Oil Spill Project
Polycyclic Aromatic Hydrocarbon Data
Client Submitted Samples

Sample Name	ETX0962.D	ETX0963.D	ETX0964.D	ETX0965.D
Client Name	Cremona	Marsh Point	Indian Creek	Billiard Point
Matrix	Tissue	Tissue	Tissue	Tissue
Collection Date	6/24/00	6/24/00	6/24/00	6/24/00
Received Date	6/28/00	6/28/00	6/28/00	6/27/00
Extraction Date	6/30/00	6/30/00	6/30/00	6/30/00
Extraction Batch	ENV 223	ENV 223	ENV 223	ENV 223
Date Acquired	07/12/00	07/12/00	07/12/00	07/12/00
Method	PAH	PAH	PAH	PAH
Sample Wet Weight (g)	7.1	7.4	7.5	7.1
% Moisture	82	82	74	79
% Dry	18	18	26	21
% Lipid Based on Wet Weight	1.9	1.4	4.1	1.5
% Lipid Based on Dry Weight	10.5	7.7	15.8	7.3

Target Compounds	Su Corrected Conc. (ng/dry g)	Q	Su Corrected Conc. (ng/dry g)	Q	Su Corrected Conc. (ng/dry g)	Q	Su Corrected Conc. (ng/dry g)	Q
Naphthalene	3.9	J UB	3.4	J UB	3.6	J UB	2.9	J UB
C1-Naphthalenes	1.9	J UB	2.1	J UB	2.9	J UB	2.4	J UB
C2-Naphthalenes	<1.0	J	1.0	J	2.0	J	1.8	J
C3-Naphthalenes	<1.0	J	1.0	J	2.6	J	2.0	J
C4-Naphthalenes	<1.0	J	1.0	J	2.8	J	1.1	J
Biphenyl	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
Acenaphthylene	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Acenaphthene	<1.0	J	<1.0	J	<1.0	J	<1.0	J
Fluorene	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Fluorenes	<1.0	J	<1.0	J	<1.0	J		U
C2-Fluorenes		U		U	1.9	J		U
C3-Fluorenes		U		U	3.8	J		U
Anthracene	<1.0	J		U	<1.0	J	<1.0	J
Phenanthrene	<1.0	J UB	<1.0	J UB	<1.0	J UB	<1.0	J UB
C1-Phenanthrenes/Anthracenes	<1.0	J	<1.0	J	1.7	J	1.6	J
C2-Phenanthrenes/Anthracenes	1.2	J	1.6	J	3.9	J	2.6	J
C3-Phenanthrenes/Anthracenes	1.5	J	3.9	J	5.6	J	2.6	J
C4-Phenanthrenes/Anthracenes	1.0	J	1.9	J	3.6	J	<1.0	J
Dibenzothiophene	<1.0	J	<1.0	J	<1.0	J	<1.0	J
C1-Dibenzothiophenes		U		U	<1.0	J		U
C2-Dibenzothiophenes		U		U	1.0	J		U
C3-Dibenzothiophenes		U		U	<1.0	J		U
Fluoranthene	<1.0	J UB	1.3	J UB	1.3	J UB	<1.0	J UB
Pyrene	3.0	J UB	3.3	J UB	3.8	J UB	3.4	J UB
C1-Fluoranthenes/Pyrenes	<1.0	J	<1.0	J	2.5	J	1.1	J
C2-Fluoranthenes/Pyrenes		U		U	1.5	J		U
C3-Fluoranthenes/Pyrenes		U		U	1.4	J		U
Benz(a)anthracene		U	<1.0	J	<1.0	J	<1.0	J
Chrysene	<1.0	J	<1.0	J	1.1	J	<1.0	J
C1-Chrysenes		U		U	1.7	J		U
C2-Chrysenes		U		U		U		U
C3-Chrysenes		U		U		U		U
C4-Chrysenes		U		U		U		U
Benzo(b)fluoranthene		U		U		U		U
Benzo(k)fluoranthene		U		U		U		U
Benzo(e)pyrene		U		U		U		U
Benzo(a)pyrene		U		U		U		U
Perylene		U		U		U		U
Indeno(1,2,3-c,d)pyrene		U		U		U		U
Dibenzo(a,h)anthracene		U		U		U		U
Benzo(g,h,i)perylene		U		U		U		U
Total PAH	19.6		25.5		53.3		26.7	
Selected Ratios								
D2/P2	NA		NA		0.256		NA	
D3/P3	NA		NA		0.143		NA	
D2/C2	NA		NA		NA		NA	
D3/C3	NA		NA		NA		NA	
Individual Isomers								
2-Methylnaphthalene	1.3	J UB	1.3	J UB	1.8	J UB	1.5	J UB
1-Methylnaphthalene	<1.0	J UB	<1.0	J UB	1.1	J UB	<1.0	J UB
2,6-Dimethylnaphthalene	<1.0	J	<1.0	J	<1.0	J	1.0	J
1,6,7-Trimethylnaphthalene	<1.0	J	<1.0	J	<1.0	J	<1.0	J
1-Methylphenanthrene	<1.0	J	<1.0	J	1.3	J	<1.0	J

Surrogate (Su)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)	Su Recovery (%)
Naphthalene-d8	65	52	59	60
Acenaphthene-d10	59	50	54	60
Phenanthrene-d10	71	66	62	72
Chrysene-d12	48	55	48	62
Perylene-d12	53	52	65	73

Qualifiers (Q): J=Below the MDL, U=Not detected, B=In procedural blank > 3x MDL, I=Interference, D=Diluted value, *=Outside QA limits, refer to narrative

7/12/00