Appendix K

Analytical Data Tables - Detected Analytes Only

ARCADIS

DARSP Soil Sampling Data Tables

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location Depths (ft) Sample Date Sample ID Validation Level		SO-DA-BG-001 0-0.5 ft 8/15/2013 SO-DA-BG-001(0.0-0.5) Tier II	SO-DA-BG-002 0-0.5 ft 8/15/2013 SO-DA-BG-002(0.0-0.5) Tier II	SO-DA-BG-003 0-0.5 ft 8/15/2013 SO-DA-BG-003(0.0-0.5) Tier II	SO-DA-BG-004 0-0.5 ft 8/15/2013 SO-DA-BG-004(0.0-0.5) Tier II	SO-DA-BG-005 0-0.5 ft 8/15/2013 SO-DA-BG-005(0.0-0.5) Tier II	SO-DA-BG-006 0-0.5 ft 8/15/2013 SO-DA-BG-006(0.0-0.5) Tier II
Chemical	**Units**						
Metals							
Arsenic	mg/kg	5.60 J	4.98 J	17.3 J	3.68 J	15.7 J	12.7 J
Barium	mg/kg	63.7	124	76.4	86.0	95.8	125
Cadmium	mg/kg	0.279 J	0.173 J	0.313 J	0.180 J	0.177 J	--
Chromium	mg/kg	18.5	15.3	30.6	21.1	42.8	35.7
Lead	mg/kg	49.3	10.9	115	22.4	29.1	27.8
Mercury	mg/kg	0.0227 J	0.0125 J	0.0296 J	0.0210 J	0.0724 J	0.0404 J
Nickel	mg/kg	7.93	11.5	17.2	10.8	30.6	50.9
Selenium	mg/kg	1.13 J	--	2.08 J	--	2.50	2.39
Silver	mg/kg	0.219 J	--	0.540 J	--	0.624	0.709
Vanadium	mg/kg	25.6	20.9	30.8	24.0	29.4	33.4
Other							
Black Carbon	%	--	0.18 J	0.48 J	--	--	--
Percent Moisture	%	16.4	15.8	14.8	30.4	15.3	14.8
Total Organic Carbon	%	1.51	0.53	2.39	2.26	0.82	1.42
Priority PAHs							
1-Methylnaphthalene	ug/kg	2.85	1.09	10.7	2.38	6.78	3.74
2-Methylnaphthalene	ug/kg	5.38	2.73	15.8	4.97	15.3	8.28
Acenaphthene	ug/kg	0.856	0.335	0.912	1.03	1.12	1.96
Acenaphthylene	ug/kg	3.20	0.565	14.2	5.08	1.09	1.51
Anthracene	ug/kg	4.25	0.726	18.5	11.6	0.867	2.68
Benzo(a)Anthracene	ug/kg	5.88	0.858	51.3	19.2 J	2.55	12.1
Benzo(a)Pyrene	ug/kg	3.70	0.697	36.5	17.4 J	1.45	4.93
Benzo(b)Fluoranthene	ug/kg	19.9	3.63	139	46.5	12.7	26.0
Benzo(g,h,i)Perylene	ug/kg	7.35	1.75	52.1	16.5 J	3.71	10.9
Benzo(j)+(k)Fluoranthene	ug/kg	7.20	0.731	52.4	16.4 J	1.99	7.70
Chrysene/Triphenylene	ug/kg	16.2	2.78	86.2	24.2 J	9.09	21.0
Dibenz(a,h)Anthracene	ug/kg	2.29	--	17.0	5.56	1.20	3.74
Fluoranthene	ug/kg	30.5	2.80	98.5	22.3 J	9.95	31.6
Fluorene	ug/kg	5.29	2.68	4.26	3.82	9.17	5.43
Indeno[1,2,3-cd]pyrene	ug/kg	7.06	1.25	47.1	15.8 J	3.09	10.0
Naphthalene	ug/kg	6.58	1.92	13.4	5.88	14.9	10.5
Phenanthrene	ug/kg	27.0	8.27	42.2	12.0	27.1	30.0
Pyrene	ug/kg	19.4	2.34	72.2	22.1 J	7.32	25.5
Forensic PAHs							
Benzo(e)Pyrene	ug/kg	9.41	1.92	66.3	21.3 J	4.13	11.4
C1-Chrysenes	ug/kg	4.48	--	37.4	13.4	2.37	7.13
C1-Fluoranthenes/Pyrenes	ug/kg	7.21	5.17	38.5	18.0	3.56	11.0
C1-Fluorenes	ug/kg	2.35	2.55	4.14	2.34	4.08	3.22
C1-Phenanthrenes/Anthracenes	ug/kg	11.4	7.36	37.7	9.54	14.1	13.9
C2-Chrysenes	ug/kg	3.87	--	20.0	6.89	2.42	5.39
C2-Fluorenes	ug/kg	--	--	14.2	5.24	5.85	--
C2-Naphthalenes	ug/kg	10.9	5.87	29.9	10.0	27.8	13.6
C2-Phenanthrenes/Anthracenes	ug/kg	8.60	7.61	32.5	9.43	11.1	10.5
C3-Chrysenes	ug/kg	--	--	13.2	2.75	--	--
C3-Fluorenes	ug/kg	--	--	25.0	8.36	13.1	--
C3-Naphthalenes	ug/kg	7.85	8.82	29.0	16.5	24.4	11.7
C3-Phenanthrenes/Anthracenes	ug/kg	4.20	4.22	23.0	11.2	4.76	4.99
C4-Chrysenes	ug/kg	--	--	7.75	--	--	--
C4-Naphthalenes	ug/kg	6.85	5.92	17.9	7.77	11.9	6.83
C4-Phenanthrenes/Anthracenes	ug/kg	--	5.56	17.2	10.4	2.10	5.06
Perylene	ug/kg	0.680 J	0.820 J	5.55 J	5.47 J	R	0.676 J
Phenanthrene, 2-methyl-	ug/kg	4.42	2.72	17.3	2.27	6.70	6.46
1,1-Biphenyl	ug/kg	2.19	2.53	8.90	1.96	5.13	4.57
18a-Oleanane	ug/kg	--	--	--	--	--	--
1-Methyldibenzothiophene(1MDT)	ug/kg	--	--	1.03	--	0.509	--
1-Methylfluorene	ug/kg	1.06	0.925	1.94	0.882	1.89	1.20
1-Methylphenanthrene	ug/kg	2.04	0.783	8.17	0.695	2.16	2.16
2,3,5-Trimethylnaphthalene	ug/kg	1.18	0.975	4.68	0.888	3.28	1.18
2/3-Methyldibenzothiophene(2MDT)	ug/kg	--	--	2.20	--	1.85	1.37
2-Methylanthracene	ug/kg	5.15	4.81	8.46	6.79	4.67	5.08
2-Methylfluoranthene	ug/kg	1.77	8.41	10.6	3.45	0.576	2.01
3,6-Dimethylphenanthrene	ug/kg	0.570	0.407	2.12	0.613	0.910	0.786
3-Methylphenanthrene (3MP)	ug/kg	3.42	1.83	12.5	2.00	5.14	4.73
4-Methyldibenzothiophene(4MDT)	ug/kg	--	--	3.10	--	2.29	1.82
9/4-Methylphenanthrene (9MP)	ug/kg	2.42	1.10	11.1	2.83	2.85	2.75
Benzo(a)Fluoranthene	ug/kg	1.96	0.287	12.4	8.32	0.911	3.24
Benzo(b)fluorene	ug/kg	0.994	1.56	2.7	4.24	0.535	2.39
Benzothiophene	ug/kg	--	--	--	--	0.579	0.483
C1-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C1-Decalins	ug/kg	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-BG-001	SO-DA-BG-002	SO-DA-BG-003	SO-DA-BG-004	SO-DA-BG-005	SO-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013
	Sample ID	SO-DA-BG-001(0.0-0.5)	SO-DA-BG-002(0.0-0.5)	SO-DA-BG-003(0.0-0.5)	SO-DA-BG-004(0.0-0.5)	SO-DA-BG-005(0.0-0.5)	SO-DA-BG-006(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**						
C1-Dibenzothiophenes	ug/kg	--	--	4.88	--	3.59	2.77
C1-Naphthalenes	ug/kg	5.47	2.55	17.5	4.89	14.7	8.01
C1-Naphthobenzothiophenes	ug/kg	3.15	--	15.0	--	4.34	4.66
C20-TAS	ug/kg	--	--	--	--	--	--
C21-TAS	ug/kg	--	--	--	--	--	--
C26(20R)/C27(20S)-TAS	ug/kg	--	--	--	--	--	--
C26(20S)-TAS	ug/kg	--	--	--	--	--	--
C27(20R)-TAS	ug/kg	--	--	--	--	--	--
C28(20R)-TAS	ug/kg	--	--	--	--	--	--
C28(20S)-TAS	ug/kg	--	--	--	--	--	--
C29-Hopane	ug/kg	--	26.5	20.2	--	--	--
C2-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C2-Decalins	ug/kg	--	--	--	--	--	--
C2-Dibenzothiophenes	ug/kg	--	--	6.07	--	5.52	--
C2-Fluoranthenes/Pyrenes	ug/kg	12.0	7.10	73.2	51.3	5.47	10.7
C2-Naphthobenzothiophenes	ug/kg	3.19	--	16.8	--	2.75	4.76
C30-Hopane	ug/kg	--	23.2	24.3	--	--	--
C3-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C3-Decalins	ug/kg	--	--	--	--	--	--
C3-Dibenzothiophenes	ug/kg	--	--	5.41	--	4.02	3.23
C3-Fluoranthenes/Pyrenes	ug/kg	4.89	--	31.4	10.7	2.25	4.42
C3-Naphthobenzothiophenes	ug/kg	2.15	--	20.4	--	2.33	4.06
C4-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C4-Decalins	ug/kg	--	--	--	--	--	--
C4-Dibenzothiophenes	ug/kg	--	--	3.32	4.67	2.35	2.39
C4-Fluoranthenes/Pyrenes	ug/kg	3.62	--	36.5	4.01	--	--
C4-Naphthobenzothiophenes	ug/kg	--	--	10.8	--	--	--
Carbazole	ug/kg	3.23	0.860	7.53	2.92	2.35	3.77
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	--	--	--	--	--
Dibenzofuran	ug/kg	5.09	2.27	8.15	3.82	8.75	4.61
Dibenzothiophene	ug/kg	1.13	0.789	3.26	1.03	3.23	3.34
Naphthalene, 2,6-dimethyl-	ug/kg	4.42	2.97	11.4	4.00	14.0	6.48
Naphthobenzothiophene	ug/kg	3.51	--	23.2	7.95	2.35	5.63
Retene	ug/kg	--	1.40	9.28	10.9 J	1.47	1.94
VOCs							
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	10 J	16	10 J	--	8 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--
Acetone	ug/kg	120	170	100	48	140	57
Benzene	ug/kg	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--
Trichloroethene	ug/kg	2 J	3 J	--	4 J	2 J	2 J
Xylene (Total)	ug/kg	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:
% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SO-DA-001	SO-DA-001	SO-DA-001	SO-DA-002	SO-DA-002	SO-DA-002	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-004	SO-DA-004
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013
Sample ID		SO-DA-001(0.0-0.5)	SO-DA-001(0.5-1.0)	SO-DA-001(1.0-1.5)	SO-DA-002(0.0-0.5)	SO-DA-002(0.5-1.0)	SO-DA-002(1.0-1.5)	SO-DA-003(0.0-0.5)	SO-DA-DUP-06-081313FD	SO-DA-003(0.5-1.0)	SO-DA-003(1.0-1.5)	SO-DA-004(0.0-0.5)	SO-DA-004(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
Metals													
Arsenic	mg/kg	7.51	6.92	13.7	7.17	7.99	7.36	4.01	3.61	4.84	4.48	6.41	7.59
Barium	mg/kg	91.9	80.5	75.8	55.5	69.2	85.9	65.4	61.6	68.4	65.8	89.2	74.1
Cadmium	mg/kg	0.221 J	0.187 J	--	0.183 J	--	0.265 J	0.192 J	0.209 J	0.353 J	0.356 J	0.390 J	0.688
Chromium	mg/kg	26.0 J	26.8 J	36.1 J	23.0 J	24.7 J	21.2 J	12.6 J	13.1 J	16.8 J	17.2 J	19.2 J	26.9 J
Lead	mg/kg	16.3	19.3	18.6	13.9	17.8	25.6	9.86	11.2	28.9	13.5	27.2	27.4
Mercury	mg/kg	0.0482 J	0.0504 J	0.0352 J	0.0187 J	0.0332 J	0.0585 J	0.0153 J	0.0161 J	0.0261 J	0.0158 J	0.0252 J	0.0230 J
Nickel	mg/kg	12.3	12.8	9.62	9.96	16.9	16.8	9.09	10.4	11.1	9.87	18.4	9.38
Selenium	mg/kg	1.40 J	1.59 J	3.40	1.66 J	2.26 J	1.62 J	--	--	--	--	1.14 J	1.24 J
Silver	mg/kg	0.279 J	0.201 J	0.643	--	0.328 J	--	--	--	--	--	--	0.211 J
Vanadium	mg/kg	26.7	25.8	30.6	32.8	32.6	25.9	18.1	18.5	24.3	28.3	27.6	31.8
Other													
Black Carbon	%	--	NA	NA	--	NA	NA	--	--	NA	NA	0.31 J	NA
Percent Moisture	%	19.4	19.1	9.5	23.0	15.6	27.1	21.7	19.8	17.2	16.6	20.6	18.5
Total Organic Carbon	%	2.04	NA	NA	1.27	NA	NA	2.12	2.18	NA	NA	2.98	NA
Priority PAHs													
1-Methylnaphthalene	ug/kg	6.51	5.31	1.70	2.87	7.82	4.88	9.15	--	9.99	3.95	2.27	17.8
2-Methylnaphthalene	ug/kg	13.9	11.5	3.23	5.77	17.7	8.44	22.9	23.7	17.6	7.63	5.28	27.5
Acenaphthene	ug/kg	0.563	--	--	0.482	1.79	0.990	--	0.930	9.50	0.321	--	0.641
Acenaphthylene	ug/kg	1.19	0.621	--	0.504	1.17	1.27	--	2.80 J	3.41	0.310	2.43	2.95
Anthracene	ug/kg	1.29	0.443	0.218	0.674	0.681	1.55	1.84	4.80 J	17.2	--	3.65	4.37
Benzo(a)Anthracene	ug/kg	4.71	1.77	0.331	1.57	0.816	2.24	36.5	10.9 J	68.5	0.904	9.69	8.50
Benzo(a)Pyrene	ug/kg	2.31	1.04	0.106	0.849	0.598	2.66	43.7	23.9 J	37.9	0.496	9.51	4.47
Benzo(b)Fluoranthene	ug/kg	9.91	5.59	1.15	4.59	4.85	9.75	61.8	42.4	87.6	2.11	26.7	21.1
Benzo(g,h,i)Perylene	ug/kg	4.05	2.52	0.271	2.43	1.88	3.38	59.0	40.0	26.9	0.87	18.2	5.26
Benzo(j)+(k)Fluoranthene	ug/kg	3.02	1.40	0.167	1.20	0.701	1.48	26.0	12.3 J	42.8	0.611	9.16	7.06
Chrysene/Triphenylene	ug/kg	7.70	3.19	1.18	4.20	2.75	5.64	94.6	90.3	84.2	2.29	31.4	20.0
Dibenz(a,h)Anthracene	ug/kg	1.88	0.507	0.147	0.789	0.544	1.15	10.9	7.64	10.8	0.382	3.90	2.26
Fluoranthene	ug/kg	11.3 J	5.02 J	1.22 J	4.21	7.95 J	8.29 J	47.3	24.0 J	179	2.89	12.6	18.7
Fluorene	ug/kg	14.9	8.16	--	3.82	20.0	9.90	7.88	6.10	17.2	5.52	2.53	9.83
Indeno[1,2,3-cd]pyrene	ug/kg	4.25	2.86	0.453	2.69	1.42	1.68	26.4	14.0 J	30.4	0.705	7.93	5.02
Naphthalene	ug/kg	12.0	13.4	4.46	6.95	18.5	9.21	12.9	12.9	20.0	8.84	3.34	27.7
Phenanthrene	ug/kg	43.2	22.6	4.98	10.7	47.1	26.6	20.2	32.4	169	13.90	7.32	48.7
Pyrene	ug/kg	7.95	2.93	0.539	3.56	3.79	5.42	68.2 J	61.5	127 J	1.50 J	21.7 J	11.1 J
Forensic PAHs													
Benzo(e)Pyrene	ug/kg	5.74	3.27	0.619	2.60	2.49	4.53	77.9	57.3	45.4	1.53	27.0	12.1
C1-Chrysenes	ug/kg	7.18	3.51	--	4.12	2.12	4.39	168	210	38.3	3.05	70.3	19.7
C1-Fluoranthenes/Pyrenes	ug/kg	9.68	4.02	--	3.32	3.22	5.42	182	154	66.0	2.61	85.1	17.2
C1-Fluorenes	ug/kg	6.49	3.15	--	1.63	9.62	4.86	38.1	22.8	9.73	2.22	12.1	5.67
C1-Phenanthrenes/Anthracenes	ug/kg	15.9	10.1	5.79	8.44	16.4	13.9	114	112	60.8	6.46	30.5	37.7
C2-Chrysenes	ug/kg	6.39	--	--	3.40	--	--	235	253	26.2	3.13	107	21.2
C2-Fluorenes	ug/kg	10.9	--	--	2.20	--	--	--	74.8 J	13.6	--	44.9	18.2
C2-Naphthalenes	ug/kg	25.1	16.5	5.78	8.26	28.2	15.1	74.4	34.1 J	23.6	8.25	10.8	42.5
C2-Phenanthrenes/Anthracenes	ug/kg	13.1	10.2	--	7.36	12.8	13.3	290	369	39.3	6.84	144	34.4
C3-Chrysenes	ug/kg	--	--	--	2.76	--	--	183	157	15.6	1.91	81.3	14.5
C3-Fluorenes	ug/kg	13.5	--	--	3.36	--	--	--	226 J	14.3	--	77.0	26.7
C3-Naphthalenes	ug/kg	15.2	9.49	5.64	8.78	26.8	19.0	196	101 J	14.6	4.32	35.5	28.8
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	--	3.50	5.20	5.74	445	658	20.4	3.59	293	24.3
C4-Chrysenes	ug/kg	--	--	--	2.43	--	--	107	49.9 J	6.01	--	46.2	5.92
C4-Naphthalenes	ug/kg	52.2	--	--	7.18	11.2	15.2	350	110 J	19.0	--	105	22.7
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	2.99	--	--	430	400	23.7	2.95	242	26.5
Perylene	ug/kg	1.11 J	R	R	0.430 J	0.184 J	0.873 J	20.8	14.8	7.90 J	0.252 J	5.12	0.737 J
C1-Dibenzothiophenes	ug/kg	--	--	--	0.773	2.83	2.29	126	106	7.44	1.20	27.9	6.13
C1-Naphthalenes	ug/kg	13.1	10.8	3.15	5.57	16.4	8.51	21.2	15.3	18.2	7.64	4.99	29.8

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-001	SO-DA-001	SO-DA-001	SO-DA-002	SO-DA-002	SO-DA-002	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-003	SO-DA-004	SO-DA-004
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft		0-0.5 ft	0.5-1 ft
	Sample Date	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013		8/13/2013	8/13/2013
	Sample ID	SO-DA-001(0.0-0.5)	SO-DA-001(0.5-1.0)	SO-DA-001(1.0-1.5)	SO-DA-002(0.0-0.5)	SO-DA-002(0.5-1.0)	SO-DA-002(1.0-1.5)	SO-DA-003(0.0-0.5)	SO-DA-DUP-06-081313FD	SO-DA-003(0.5-1.0)	SO-DA-003(1.0-1.5)		SO-DA-004(0.0-0.5)	SO-DA-004(0.5-1.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II		Tier II	Tier II
Chemical	**Units**													
C2-Dibenzothiophenes	ug/kg	--	--	--	1.25	3.47	2.12	416	375	8.95	1.94		150	7.34
C2-Fluoranthenes/Pyrenes	ug/kg	12.5	6.39	--	3.55	3.97	7.35	318	271	71.0	4.86		118	36.6
C3-Dibenzothiophenes	ug/kg	--	--	--	1.41	2.08	2.21	418	523	11.2	1.92		289	7.35
C3-Fluoranthenes/Pyrenes	ug/kg	--	3.28	--	2.93	--	4.39	254	304	22.1	2.44		102	22.0
C4-Dibenzothiophenes	ug/kg	--	--	--	2.20	--	1.35	438	648	12.2	2.04		324	6.81
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	2.40	--	--	261	265	29.7	--		122	32.5
Dibenzothiophene	ug/kg	2.38	1.43	0.446	0.802	3.80	1.80	18.6	15.3	9.12	0.933		4.14	4.18
VOCs														
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--		--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--		--	--
2-Butanone (MEK)	ug/kg	4 J	9 J	10 J	--	--	--	19	22	--	--		9 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--		--	--
Acetone	ug/kg	130	130	130	45	27	25	160	140	33	--		75	51
Benzene	ug/kg	--	--	--	--	--	--	0.7 J	0.7 J	--	--		--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--		--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--		--	--
Isopropylbenzene (Cumene)	ug/kg	16	--	--	--	--	--	--	--	--	--		--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--		--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--		--	--
p-Isopropyltoluene (Cymene)	ug/kg	34	5 J	--	--	--	--	--	--	--	--		--	--
Toluene	ug/kg	2 J	2 J	--	--	--	--	1 J	1 J	--	--		--	--
Trichloroethene	ug/kg	3 J	4 J	3 J	2 J	3 J	--	2 J	3 J	1 J	2 J		3 J	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--		--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-004	SO-DA-005	SO-DA-005	SO-DA-005	SO-DA-006	SO-DA-006	SO-DA-006	SO-DA-007	SO-DA-007	SO-DA-007	SO-DA-008	SO-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
	Sample ID	SO-DA-004(1.0-1.5)	SO-DA-005(0.0-0.5)	SO-DA-005(0.5-1.0)	SO-DA-005(1.0-1.5)	SO-DA-006(0.0-0.5)	SO-DA-006(0.5-1.0)	SO-DA-006(1.0-1.5)	SO-DA-007(0.0-0.5)	SO-DA-007(0.5-1.0)	SO-DA-007(1.0-1.5)	SO-DA-008(0.0-0.5)	SO-DA-008(0.5-1.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
Metals													
Arsenic	mg/kg	10.4	9.41	9.43	15.1	11.2	5.79	9.41	7.34	4.06	3.20	4.13	4.69
Barium	mg/kg	72.5	128	132	145	132	271	308	62.2	43.7	48.0	57.8	50.0
Cadmium	mg/kg	0.973	0.162 J	0.135 J	--	0.635	0.156 J	0.165 J	0.214 J	0.101 J	0.104 J	0.143 J	0.149 J
Chromium	mg/kg	30.6 J	27.5 J	30.7 J	45.8 J	31.6 J	31.3 J	34.0 J	19.1 J	11.6 J	13.7 J	12.6 J	13.6 J
Lead	mg/kg	39.2	24.2	89.6	37.1	162	11.0	13.5	10.5	8.26	9.52	10.6	12.3
Mercury	mg/kg	0.0188 J	0.0149 J	--	0.0201 J	0.0329 J	--	0.0138 J	0.0223 J	0.0187 J	0.0153 J	0.0178 J	0.0166 J
Nickel	mg/kg	11.8	17.7	19.5	20.5	17.1	30.6	64.6	9.82	7.37	8.80	8.23	9.64
Selenium	mg/kg	1.64 J	1.68 J	2.63	1.79 J	1.50 J	1.22 J	--	1.32 J	1.30 J	--	1.20 J	0.976 J
Silver	mg/kg	0.222 J	0.217 J	--	0.377 J	0.351 J	--	0.235 J	--	--	--	--	--
Vanadium	mg/kg	37.5	40.4	45.9	50.6	35.2	43.2	49.7	26.4	18.8	19.2	20.9	21.5
Other													
Black Carbon	%	NA	0.2 J	NA	NA	0.22 J	NA	NA	--	NA	NA	--	NA
Percent Moisture	%	18.3	16.7	20.6	21.4	19.5	20.0	22.4	13.1	15.4	16.1	5.9	12.9
Total Organic Carbon	%	NA	1.35	NA	NA	0.83	NA	NA	0.28	NA	NA	0.35	NA
Priority PAHs													
1-Methylnaphthalene	ug/kg	12.0	5.55	4.39	4.31	5.12	1.91	1.52	0.756	0.741	0.596	1.22	0.183 J
2-Methylnaphthalene	ug/kg	18.6	11.5	9.28	9.34	9.96	3.92	3.18	1.49	1.63	1.24 J	2.24	0.485 J
Acenaphthene	ug/kg	2.19	0.420	0.22	0.194	0.402	--	0.209	0.180	0.244	0.331	--	--
Acenaphthylene	ug/kg	3.82	2.47	25.4	1.18	2.86	0.236	0.123	0.071	0.090	0.060	1.12	--
Anthracene	ug/kg	7.48	3.09	53.8	1.48	6.10	--	--	--	--	--	--	0.042 J
Benzo(a)Anthracene	ug/kg	22.9	15.2	66.4	1.53	5.91	0.115 J	0.090 J	--	--	--	3.33	0.087 J
Benzo(a)Pyrene	ug/kg	18.0	15.9	13.7	0.541	5.28	--	--	--	--	--	4.49	0.042 J
Benzo(b)Fluoranthene	ug/kg	39.6	37.6	153	5.84	20.3	--	--	--	--	--	10.4	0.292
Benzo(g,h,i)Perylene	ug/kg	13.2	27.5	23.8	1.38	6.39	--	--	--	--	--	11.1	0.087 J
Benzo(j)+(k)Fluoranthene	ug/kg	17.7	13.4	54.5	1.69	6.87	--	--	--	--	--	3.93	0.114
Chrysene/Triphenylene	ug/kg	36.2	78.8	99.4	5.08	13.8	0.208	0.110 J	--	--	--	26.8	0.355
Dibenz(a,h)Anthracene	ug/kg	4.46	6.62	13.4	0.540	2.21	--	--	--	--	--	2.57	0.064 J
Fluoranthene	ug/kg	53.4	22.0	61.1	7.14	10.2	0.928	0.740	--	1.05	1.43	5.64	0.627
Fluorene	ug/kg	6.96	4.49	12.9	14.6	12.3	3.92	4.50	3.04	3.60	3.64	1.76	0.759 J
Indeno[1,2,3-cd]pyrene	ug/kg	12.3	11.2	33.2	1.49	6.12	--	--	--	--	--	4.13	0.116
Naphthalene	ug/kg	21.8	8.30	8.38	8.59	8.74	4.19	3.26	1.37	1.22	--	1.56	0.648
Phenanthrene	ug/kg	58.6	21.6	27.5	32.4	30.2	7.56	7.24	7.37	8.95	10.5	10.8	2.78
Pyrene	ug/kg	39.0 J	45.5	45.6	2.65	8.91	--	--	--	--	--	14.3	--
Forensic PAHs													
Benzo(e)Pyrene	ug/kg	21.5	34.6	60.1	2.66	10.7	--	--	--	--	--	13.9	0.252
C1-Chrysenes	ug/kg	23.2	184	37.2	2.85	13.0	0.211 J	0.111 J	--	--	--	58.3	0.609
C1-Fluoranthenes/Pyrenes	ug/kg	27.6	111	21.9	1.83	8.59	0.325 J	0.167 J	--	--	--	40.2	--
C1-Fluorenes	ug/kg	4.72	13.0	4.68	4.92	4.85	1.44	1.60	1.05	1.33	1.27	11.8	0.354 J
C1-Phenanthrenes/Anthracenes	ug/kg	33.2	115	18.6	12.2	14.9	--	--	3.52	4.10	4.17	52.0	--
C2-Chrysenes	ug/kg	22.6	244	15.5	2.62	11.8	0.158 J	0.092 J	--	--	--	94.7	--
C2-Fluorenes	ug/kg	12.1	77.3	7.71	7.12	8.30	2.71	2.26	--	--	--	--	--
C2-Naphthalenes	ug/kg	29.0	20.8	12.9	13.5	17.9	5.72	4.95	2.92	2.64	2.08	8.82	0.704 J
C2-Phenanthrenes/Anthracenes	ug/kg	25.2	306	13.23	7.84	14.3	--	--	--	--	--	139	--
C3-Chrysenes	ug/kg	17.2	138	5.51	1.99	9.12	--	0.071 J	--	--	--	63.6	--
C3-Fluorenes	ug/kg	20.8	277	11.2	5.45	12.2	1.31	1.52	--	--	--	--	--
C3-Naphthalenes	ug/kg	21.5	53.5	7.59	8.95	12.3	6.31	5.80	2.42	2.15	1.64	28.6	--
C3-Phenanthrenes/Anthracenes	ug/kg	16.5	444	6.44	2.82	15.0	--	--	--	--	--	215	--
C4-Chrysenes	ug/kg	6.78	48.7	3.19	1.05	5.68	--	--	--	--	--	36.4	--
C4-Naphthalenes	ug/kg	15.0	70.7	6.53	7.34	10.3	4.34	4.31	--	--	--	58.3	--
C4-Phenanthrenes/Anthracenes	ug/kg	14.4	359	4.42	1.57	11.9	--	--	--	--	--	212	--
Perylene	ug/kg	4.30	7.14	2.45 J	--	1.50 J	--	--	R	R	R	R	R
C1-Dibenzothiophenes	ug/kg	5.93	84.2	1.75	2.05	2.33	0.382	0.455	0.580	0.597	0.697	49.4	0.447
C1-Naphthalenes	ug/kg	20.1	11.0	8.80	8.79	9.70	3.76	3.02	1.21	1.28	0.991 J	2.21	0.430 J

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SO-DA-004	SO-DA-005	SO-DA-005	SO-DA-005	SO-DA-006	SO-DA-006	SO-DA-006	SO-DA-007	SO-DA-007	SO-DA-007	SO-DA-008	SO-DA-008
Depths (ft)		1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/13/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013
Sample ID		SO-DA-004(1.0-1.5)	SO-DA-005(0.0-0.5)	SO-DA-005(0.5-1.0)	SO-DA-005(1.0-1.5)	SO-DA-006(0.0-0.5)	SO-DA-006(0.5-1.0)	SO-DA-006(1.0-1.5)	SO-DA-007(0.0-0.5)	SO-DA-007(0.5-1.0)	SO-DA-007(1.0-1.5)	SO-DA-008(0.0-0.5)	SO-DA-008(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	6.46	368	2.36	2.13	4.71	0.570	0.594	0.582	0.622	0.639	152	0.933
C2-Fluoranthenes/Pyrenes	ug/kg	38.3	166	34.9	2.62	11.7	0.198 J	0.117 J	--	--	--	72.2	--
C3-Dibenzothiophenes	ug/kg	5.93	501	2.73	1.70	9.05	0.299	0.230 J	--	0.610	--	277	1.15
C3-Fluoranthenes/Pyrenes	ug/kg	21.5	199	21.0	1.86	10.3	0.138 J	--	--	--	--	66.9	--
C4-Dibenzothiophenes	ug/kg	5.64	365	2.10	1.24	10.7	0.137 J	0.162 J	--	--	--	235	--
C4-Fluoranthenes/Pyrenes	ug/kg	31.2	237	17.4	1.57	8.81	0.114 J	--	--	--	--	101	--
Dibenzothiophene	ug/kg	4.79	7.70	1.34	1.36	1.92	0.554	0.713	0.528	0.587	0.640	6.42	0.246
VOCs													
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	--	12 J	5 J	--	--	--	7 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	11 J	50	33	26	47	150	51	53	12 J	10 J	45	24
Benzene	ug/kg	--	--	--	--	--	--	0.6 J	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	3 J	3 J	4 J	3 J	3 J	--	--	--	--	1 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SO-DA-008	SO-DA-009	SO-DA-009	SO-DA-009	SO-DA-010	SO-DA-010	SO-DA-010	SO-DA-010	SO-DA-011	SO-DA-011	SO-DA-011	SO-DA-012
Depths (ft)		1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
Sample Date		8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/1/2013
Sample ID		SO-DA-008(1.0-1.5)	SO-DA-009(0.0-0.5)	SO-DA-009(0.5-1.0)	SO-DA-009(1.0-1.5)	SO-DA-010(0.0-0.5)	SO-DA-DUP-02-080213FD	SO-DA-010(0.5-1.0)	SO-DA-010(1.0-1.5)	SO-DA-011(0.0-0.5)	SO-DA-011(0.5-1.0)	SO-DA-011(1.0-1.5)	SO-DA-012(0.0-0.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
Metals													
Arsenic	mg/kg	5.48	3.53	4.66	3.50	4.09	5.92	2.93	3.60	3.81	3.80	4.92	8.14 J
Barium	mg/kg	54.3	73.2	60.5	47.5	94.7	92.2	33.3	35.8	84.4	97.8	99.7	79.7
Cadmium	mg/kg	0.188 J	0.0984 J	0.113 J	--	0.177 J	0.198 J	--	0.135 J	0.203 J	0.119 J	0.132 J	0.168 J
Chromium	mg/kg	18.9 J	12.9 J	14.4 J	17.0 J	13.6 J	21.4 J	11.3 J	11.6 J	13.0 J	14.2 J	13.7 J	22.7 J
Lead	mg/kg	13.3	12.6	14.3	16.6	12.5	11.5	5.51	5.77	18.6	14.7	11.5	30.7 J
Mercury	mg/kg	--	0.0288 J	0.0180 J	--	0.0299 J	0.0321 J	0.0157 J	0.0126 J	0.0299 J	0.0299 J	0.0326 J	0.0304 J
Nickel	mg/kg	10.6	8.58	7.57	8.69	10.9	8.94	7.22	7.50	9.43	10.4	10.7	9.21
Selenium	mg/kg	1.23 J	1.04 J	--	--	0.963 J	1.69 J	--	--	1.12 J	1.53 J	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--	0.259 J
Vanadium	mg/kg	29.3	21.3	23.3	24.9	20.8	25.8	18.9	19.9	20.5	21.5	21.5	43.4 J
Other													
Black Carbon	%	NA	--	NA	NA	--	--	NA	NA	--	NA	NA	--
Percent Moisture	%	13.5	18.5	16.4	13.2	16.5	23.6	13.3	12.9	17.4	16.6	15.1	12.2
Total Organic Carbon	%	NA	0.83	NA	NA	3.25 J	1.82 J	NA	NA	0.890	NA	NA	0.700
Priority PAHs													
1-Methylnaphthalene	ug/kg	0.364 J	2.54	0.706	0.513 J	3.81	5.13	0.439 J	0.467 J	2.04	2.95	0.988	0.927
2-Methylnaphthalene	ug/kg	0.811 J	5.97	1.49	1.05 J	6.73 J	11.7 J	1.00 J	1.15 J	4.03	5.93	1.88	2.07
Acenaphthene	ug/kg	--	--	--	0.128	--	--	0.170	0.248	0.237	0.113	0.145	0.118
Acenaphthylene	ug/kg	--	2.43	0.262	0.106	1.21	1.75	0.356	0.139	0.698	0.582	0.095	2.16
Anthracene	ug/kg	--	4.69	0.36	0.108 J	1.54	2.39	0.567	0.192	0.958	0.589	0.035 J	3.73
Benzo(a)Anthracene	ug/kg	--	7.54	0.633	0.175 J	5.70	8.62	0.832	0.326	7.40 J	1.62	0.138 J	6.92
Benzo(a)Pyrene	ug/kg	--	9.89	0.899	0.149	5.81 J	10.1 J	0.847	0.213	6.55	1.10	0.041 J	4.64
Benzo(b)Fluoranthene	ug/kg	--	28.3	2.75	0.673	19.5	32.0	3.70	1.03	25.7 J	6.76	0.230	25.2
Benzo(g,h,i)Perylene	ug/kg	--	19.5	1.96	0.404	17.9	27.1	2.64	0.540	16.2 J	3.49	0.084 J	7.01
Benzo(j)+(k)Fluoranthene	ug/kg	--	11.4	1.07	0.256	6.17 J	12.1 J	1.40	0.384	9.38	2.17	0.070 J	11.8
Chrysene/Triphenylene	ug/kg	--	32.8	3.12	0.833	28.8	42.3	3.74	1.11	16.1 J	4.10	0.125	17.1
Dibenz(a,h)Anthracene	ug/kg	--	4.71	0.613	0.134	3.83	5.68	0.748	0.211	4.05	0.930	0.038 J	2.36
Fluoranthene	ug/kg	1.29	12.8	1.63	--	12.8	19.9	2.50	1.88	20.8 J	6.66	0.745	15.9
Fluorene	ug/kg	2.69	3.06	0.83	0.992	2.55 J	6.01 J	0.862	2.32	3.82	7.02	2.10	2.75
Indeno[1,2,3-cd]pyrene	ug/kg	--	9.87	1.21	0.305	8.78	13.1	--	0.451	14.2 J	3.38	0.110	6.88
Naphthalene	ug/kg	0.750	3.59	1.34	0.982	3.17 J	5.51 J	1.02	0.909	3.78	5.26	1.60	2.35
Phenanthrene	ug/kg	9.00	15.2	2.89	2.67	18.1	28.5	3.55	7.67	14.6 J	20.6	5.06	12.7
Pyrene	ug/kg	--	22.6	2.03	--	19.4	30.0	2.09	0.871	13.4 J	--	0.159	10.3
Forensic PAHs													
Benzo(e)Pyrene	ug/kg	--	23.5	2.55	0.664	19.2	29.0	3.40	0.979	14.9 J	3.67	0.134 J	15.3
C1-Chrysenes	ug/kg	--	57.7	7.13	1.97	42.8 J	78.6 J	6.85	1.53	7.53	1.68	--	13.1
C1-Fluoranthenes/Pyrenes	ug/kg	--	58.5	6.11	1.20	36.5 J	69.2 J	4.84	1.03	7.20	1.86	0.568	10.4
C1-Fluorenes	ug/kg	--	10.7	0.93	0.533	9.54	11.2	0.781	0.990	1.58	2.60	0.877	1.61
C1-Phenanthrenes/Anthracenes	ug/kg	5.76	41.4	6.25	--	49.7	48.0	6.37	5.66	8.71	9.13	--	6.78
C2-Chrysenes	ug/kg	--	91.6	9.26	3.21	65.3 J	116 J	9.84	2.63	6.37	1.73	--	13.2
C2-Fluorenes	ug/kg	--	--	--	--	40.4	49.9	--	--	--	--	--	--
C2-Naphthalenes	ug/kg	1.50	14.1	3.04	2.04	25.2	23.4	1.42	1.29	6.86	10.6	3.19	2.89
C2-Phenanthrenes/Anthracenes	ug/kg	--	131	11.0	--	107	145	15.3	--	8.97	5.99	--	10.3
C3-Chrysenes	ug/kg	--	64.4	7.75	2.21	55.5	86.6	7.17	1.63	5.66	0.981	--	10.3
C3-Fluorenes	ug/kg	--	--	--	--	75.2	124	--	--	--	--	--	--
C3-Naphthalenes	ug/kg	1.24	27.7	3.60	2.06	57.6	36.5	0.99	1.06	4.26	6.84	2.19	2.23
C3-Phenanthrenes/Anthracenes	ug/kg	--	249	18.9	--	154 J	287 J	21.8	--	5.92	--	--	11.9
C4-Chrysenes	ug/kg	--	40.1	3.53	--	31.7	49.6	--	--	2.66	--	--	6.29
C4-Naphthalenes	ug/kg	--	77.1	--	--	68.5	60.6	3.93	--	4.55	6.64	2.26	4.18
C4-Phenanthrenes/Anthracenes	ug/kg	--	223	19.7	--	116 J	270 J	20.1	--	7.00	--	--	10.6
Perylene	ug/kg	R	3.09 J	R	R	1.89 J	2.44 J	R	R	1.42 J	0.141 J	R	0.951 J
C1-Dibenzothiophenes	ug/kg	0.581	38.3	1.99	1.20	44.8	40.4	1.89	0.718	1.33	1.77	0.408	1.57
C1-Naphthalenes	ug/kg	0.754 J	5.47	1.41	1.00 J	6.75	10.8	0.93 J	1.04	3.89	5.69	1.83	1.84

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SO-DA-008	SO-DA-009	SO-DA-009	SO-DA-009	SO-DA-010	SO-DA-010	SO-DA-010	SO-DA-010	SO-DA-011	SO-DA-011	SO-DA-011	SO-DA-012
Depths (ft)		1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
Sample Date		8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/1/2013
Sample ID		SO-DA-008(1.0-1.5)	SO-DA-009(0.0-0.5)	SO-DA-009(0.5-1.0)	SO-DA-009(1.0-1.5)	SO-DA-010(0.0-0.5)	SO-DA-DUP-02-080213FD	SO-DA-010(0.5-1.0)	SO-DA-010(1.0-1.5)	SO-DA-011(0.0-0.5)	SO-DA-011(0.5-1.0)	SO-DA-011(1.0-1.5)	SO-DA-012(0.0-0.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	--	141	5.93	2.61	104	141	9.66	1.41	2.35	1.98	0.444	5.22
C2-Fluoranthenes/Pyrenes	ug/kg	--	100	10.5	2.43	60.8 J	109 J	7.62	2.02	10.0	2.93	--	16.9
C3-Dibenzothiophenes	ug/kg	--	268	14.7	4.91	153 J	278 J	21.5	2.03	3.77	1.18	0.184 J	11.1
C3-Fluoranthenes/Pyrenes	ug/kg	--	86.0	8.18	1.91	44.1 J	96.6 J	6.00	1.33	5.01	1.12	--	8.81
C4-Dibenzothiophenes	ug/kg	--	194	12.2	--	129	273	--	--	4.42	--	--	9.29
C4-Fluoranthenes/Pyrenes	ug/kg	--	90.2	12.2	--	61.5 J	144 J	11.5	--	7.89	--	--	16.2
Dibenzothiophene	ug/kg	0.609	6.66	0.71	0.438	9.22	8.64	0.48	0.615	1.41	2.25	0.559	1.14
VOCs													
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	9 J	--	--	20	42	--	--	35	11	--	8 J
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	9 J	79	40	9 J	130	290	23	23	230	99	39	110
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	1 J	2 J	--	--	2 J	--	--	--
Trichloroethene	ug/kg	--	--	--	2 J	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-012	SO-DA-012	SO-DA-013	SO-DA-013	SO-DA-013	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-015	SO-DA-015	SO-DA-015
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
	Sample ID	SO-DA-012(0.5-1.0)	SO-DA-012(1.0-1.5)	SO-DA-013(0.0-0.5)	SO-DA-013(0.5-1.0)	SO-DA-013(1.0-1.5)	SO-DA-014(0.0-0.5)	SO-DA-DUP-01-080113FD	SO-DA-014(0.5-1.0)	SO-DA-014(1.0-1.5)	SO-DA-015(0.0-0.5)	SO-DA-015(0.5-1.0)	SO-DA-015(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
Metals													
Arsenic	mg/kg	5.25 J	4.64 J	2.52 J	2.30 J	2.52 J	4.55 J	3.55 J	3.05 J	1.92 J	7.71 J	13.7 J	6.92 J
Barium	mg/kg	85.4	91.2	41.1	26.7	27.4	73.3	69.2	41.2	31.8	111	130	115
Cadmium	mg/kg	0.158 J	0.169 J	0.0904 J	0.112 J	--	0.147 J	0.186 J	--	--	0.186 J	--	0.136 J
Chromium	mg/kg	17.2 J	20.4 J	10.1 J	10.3 J	9.63 J	13.1 J	12.5 J	10.7 J	9.63 J	23.7 J	38.0 J	23.0 J
Lead	mg/kg	27.3 J	23.2 J	9.44 J	9.13 J	8.15 J	16.7 J	14.9 J	8.97 J	6.95 J	31.2 J	38.9 J	26.1 J
Mercury	mg/kg	0.0217 J	0.0323 J	0.0204 J	0.0188 J	0.0170 J	0.0393 J	0.0376 J	0.0323 J	0.0265 J	0.0349 J	0.0261 J	0.0329 J
Nickel	mg/kg	8.96	12.0	4.92	3.74	4.05	9.02	8.50	6.36	5.42	9.70	10.6	9.26
Selenium	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	0.211 J	0.591 J	0.213 J
Vanadium	mg/kg	33.4 J	34.1 J	15.0 J	14.7 J	13.5 J	20.8 J	19.8 J	17.0 J	14.3 J	39.6 J	76.4 J	39.0 J
Other													
Black Carbon	%	NA	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
Percent Moisture	%	10.4	16.0	14.3	14.7	14.9	21.0	16.4	16.5	16.5	17.5	18.2	17.7
Total Organic Carbon	%	NA	NA	0.320	NA	NA	1.22	1.11	NA	NA	1.86	NA	NA
Priority PAHs													
1-Methylnaphthalene	ug/kg	1.04	2.04	0.548	0.221 J	0.500 J	1.06	1.13	0.691	0.310 J	2.21	1.10	0.800
2-Methylnaphthalene	ug/kg	2.33	4.03	1.16 J	0.451 J	1.05 J	2.43	2.70	1.56	0.653 J	4.79	2.59	1.72
Acenaphthene	ug/kg	0.179	0.420	0.054 J	0.069 J	0.049 J	0.318	0.255	0.201	0.039 J	0.482	0.340	0.118
Acenaphthylene	ug/kg	0.727	1.29	0.209	0.052	0.099	1.90	2.70	0.540	0.091	1.56	0.530	0.288
Anthracene	ug/kg	0.876	1.71	0.228	0.047 J	--	2.37	3.76	0.668	0.075 J	2.42	0.590	0.349
Benzo(a)Anthracene	ug/kg	1.57	2.61	1.14	0.149 J	0.117 J	6.34 J	12.3 J	1.68	0.263	6.73	1.54	0.991
Benzo(a)Pyrene	ug/kg	0.676	1.57	1.10	0.062 J	--	3.65 J	9.04 J	0.833	--	3.28	1.56	0.392
Benzo(b)Fluoranthene	ug/kg	6.16	9.28	3.73	0.280	0.203 J	25.8 J	45.6 J	5.62	0.687	31.5	8.00	3.92
Benzo(g,h,i)Perylene	ug/kg	1.68	2.12	1.62	0.103	0.050 J	8.13 J	16.6 J	1.85	0.082 J	10.6	3.57	1.23
Benzo(j)+(k)Fluoranthene	ug/kg	2.18	3.15	1.40	0.083 J	0.061 J	9.78	16.2	1.85	0.240	12.2	2.56	0.909
Chrysene/Triphenylene	ug/kg	4.63	8.30	3.16	0.154	0.125	15.8	24.4	3.92	0.476	17.2 J	6.08	3.35
Dibenz(a,h)Anthracene	ug/kg	0.580	0.740	0.399	0.030 J	0.021 J	2.70 J	4.80 J	0.605	0.042 J	3.59	1.08	0.433
Fluoranthene	ug/kg	6.39	12.3	3.59	0.462	0.903	17.9	24.1	6.19	0.717	17.7	6.03	3.15
Fluorene	ug/kg	3.62	5.67	1.74	0.862	2.72	3.19 J	1.63 J	5.78	1.29	3.79	4.91	2.18
Indeno[1,2,3-cd]pyrene	ug/kg	1.76	2.22	1.26	0.095	0.063	8.62 J	15.6 J	1.72	0.160	8.80	2.42	1.02
Naphthalene	ug/kg	2.47	4.88	1.19	0.668	1.17	2.85	2.85	1.63	0.949	4.31	2.74	2.30
Phenanthrene	ug/kg	12.5	19.1	6.00	2.26	6.90	14.8	11.2	19.8	3.27	18.9 J	17.1	6.92
Pyrene	ug/kg	3.22	7.75	2.73	0.331	0.367	12.4 J	21.2 J	2.78	0.223	12.5	3.00	1.80
Forensic PAHs													
Benzo(e)Pyrene	ug/kg	3.75	5.07	2.67	0.202	0.147 J	15.36 J	26.2 J	3.68	0.364	22.5 J	6.75	2.52
C1-Chrysenes	ug/kg	2.85	6.25	3.47	--	--	8.60	14.4	3.80	--	22.5	12.5	6.59
C1-Fluoranthenes/Pyrenes	ug/kg	2.10	5.96	2.73	--	--	7.91	13.2	2.61	--	13.3	6.44	2.62
C1-Fluorenes	ug/kg	1.07	2.52	0.874	0.258 J	0.674	1.69	1.42	2.31	0.408	2.89	1.82	0.940
C1-Phenanthrenes/Anthracenes	ug/kg	5.26	8.45	4.66	--	--	7.31	7.80	6.44	--	9.12	6.34	4.85
C2-Chrysenes	ug/kg	2.77	4.94	4.29	--	--	8.34	11.6	4.38	--	28.6	15.7	6.16
C2-Fluorenes	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
C2-Naphthalenes	ug/kg	3.26	6.24	1.95	0.965	1.67	4.03	3.62	2.92	0.883	8.43	4.07	2.51
C2-Phenanthrenes/Anthracenes	ug/kg	--	7.23	8.28	--	--	7.38	9.67	6.67	--	16.5	10.1	7.81
C3-Chrysenes	ug/kg	1.95	3.10	3.47	--	--	7.71	9.96	4.95	--	27.4	12.2	5.28
C3-Fluorenes	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
C3-Naphthalenes	ug/kg	2.56	8.94	2.41	1.74	2.85	3.28	2.55	2.54	1.093	7.76	2.57	2.02
C3-Phenanthrenes/Anthracenes	ug/kg	--	2.97	6.58	--	--	7.58	11.5	6.69	--	29.1	19.0	7.05
C4-Chrysenes	ug/kg	--	--	--	--	--	--	--	--	--	14.0	--	--
C4-Naphthalenes	ug/kg	--	--	1.59	--	--	--	--	--	--	--	--	--
C4-Phenanthrenes/Anthracenes	ug/kg	--	3.60	5.50	--	--	7.18	10.0	4.95	--	37.5	19.7	7.98
Perylene	ug/kg	0.228 J	2.76 J	0.280 J	0.028 J	R	0.64 J	1.92 J	0.239 J	0.043 J	1.27 J	0.572 J	0.322 J
C1-Dibenzothiophenes	ug/kg	1.36	3.41	1.50	0.150	0.187	1.47	1.66	0.725	0.178	4.33	3.15	1.23
C1-Naphthalenes	ug/kg	2.07	3.72	1.05	0.413 J	0.953 J	2.15	2.36	1.39	0.592 J	4.31	2.27	1.55

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-012	SO-DA-012	SO-DA-013	SO-DA-013	SO-DA-013	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-014	SO-DA-015	SO-DA-015	SO-DA-015
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013	8/1/2013
	Sample ID	SO-DA-012(0.5-1.0)	SO-DA-012(1.0-1.5)	SO-DA-013(0.0-0.5)	SO-DA-013(0.5-1.0)	SO-DA-013(1.0-1.5)	SO-DA-014(0.0-0.5)	SO-DA-DUP-01-080113FD	SO-DA-014(0.5-1.0)	SO-DA-014(1.0-1.5)	SO-DA-015(0.0-0.5)	SO-DA-015(0.5-1.0)	SO-DA-015(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
C2-Dibenzothiophenes	ug/kg	1.62	3.68	4.44	0.188 J	0.236	1.88	2.63	1.03	0.252	10.59	--	2.79
C2-Fluoranthenes/Pyrenes	ug/kg	3.98	9.15	4.32	--	--	13.0	17.8	5.39	--	26.6	12.4	--
C3-Dibenzothiophenes	ug/kg	1.33	3.77	7.38	0.270	--	3.20 J	7.49 J	2.56	--	22.0	--	6.09
C3-Fluoranthenes/Pyrenes	ug/kg	1.84	3.98	2.91	--	--	5.05 J	9.47 J	2.77	--	15.2	9.05	--
C4-Dibenzothiophenes	ug/kg	--	--	5.69	--	--	--	5.53 J	--	--	21.9	--	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	5.12	4.04	--	--	11.0	12.8	6.43	--	36.4	17.5	--
Dibenzothiophene	ug/kg	1.27	2.11	0.681	0.101 J	0.211	1.26	1.38	1.10	0.240	1.87	1.16	0.857
VOCs													
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	4 J	--	--	--	--	10 J	11 J	4 J	--	--	8 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	67	12 J	31	--	--	220	250	85	30	--	140	66
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	34 J	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	620	3 J	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	120 J	42	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	5 J	--
Trichloroethene	ug/kg	--	--	1 J	1 J	1 J	--	2 J	1 J	2 J	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:
% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-016	SO-DA-016	SO-DA-016	SO-DA-017	SO-DA-017	SO-DA-017	SO-DA-018	SO-DA-018	SO-DA-018	SO-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
	Sample ID	SO-DA-016(0.0-0.5)	SO-DA-016(0.5-1.0)	SO-DA-016(1.0-1.5)	SO-DA-017(0.0-0.5)	SO-DA-017(0.5-1.0)	SO-DA-017(1.0-1.5)	SO-DA-018(0.0-0.5)	SO-DA-DUP-03-080613FD	SO-DA-018(0.5-1.0)	SO-DA-018(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Metals											
Arsenic	mg/kg	4.03	3.57	3.58	4.47	3.27	2.71	5.66	6.51	3.01	2.98
Barium	mg/kg	101	106	78.8	82.9	102	82.8	88.2	95.4	63.6	86.2
Cadmium	mg/kg	0.303 J	0.254 J	0.185 J	0.221 J	0.173 J	0.148 J	0.260 J	0.222 J	0.143 J	0.183 J
Chromium	mg/kg	13.8 J	13.4 J	13.4 J	14.9 J	13.2 J	12.4 J	16.3 J	17.4 J	11.5 J	12.7 J
Lead	mg/kg	19.7 J	16.5 J	11.7 J	22.2 J	12.5 J	11.5 J	18.3 J	25.8 J	11.8 J	11.3 J
Mercury	mg/kg	0.0372 J	0.0249 J	0.0141 J	0.0326 J	0.0216 J	0.0268 J	0.0235 J	0.0198 J	0.0375 J	0.0265 J
Nickel	mg/kg	10.3	11.1	11.0	10.5	12.0	9.70	11.0	11.7	6.83	8.50
Selenium	mg/kg	0.983 J	1.19 J	--	--	--	--	--	1.00 J	--	1.01 J
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	21.9	21.4	22.2	24.2	22.6	22.0	25.6	27.9	20.3	20.1
Other											
Black Carbon	%	--	NA	NA	--	NA	NA	--	--	NA	NA
Percent Moisture	%	18.1	19.6	20.0	24.3	19.9	20.8	27.4	20.6	19.8	21.7
Total Organic Carbon	%	2.51	NA	NA	1.71	NA	NA	2.01	1.95	NA	NA
Priority PAHs											
1-Methylnaphthalene	ug/kg	4.15	1.78	1.12	3.71	2.01	1.02	3.33	3.43	0.763	1.58
2-Methylnaphthalene	ug/kg	9.66	3.70	2.29	8.75	4.42	2.41	7.73	7.77	1.76	3.54
Acenaphthene	ug/kg	1.24	0.170	0.106	0.758	0.256	0.231	0.554 J	--	0.552	--
Acenaphthylene	ug/kg	4.43	0.620	0.325	1.53	0.293	0.611	0.699 J	3.57 J	0.246	--
Anthracene	ug/kg	7.27	0.451	0.287	1.48	--	--	1.01 J	4.25 J	--	--
Benzo(a)Anthracene	ug/kg	13.7	1.09	0.676	11.5	0.347	0.441	2.77 J	8.90 J	0.280	0.163 J
Benzo(a)Pyrene	ug/kg	18.8	0.929	0.549	5.84 J	0.163	0.331	3.46 J	14.0 J	0.288	0.097 J
Benzo(b)Fluoranthene	ug/kg	71.5	4.09	2.62	29.1	1.23	2.38	10.9 J	33.3 J	1.32	0.728
Benzo(g,h,i)Perylene	ug/kg	28.7	2.01	1.17	13.4 J	0.346	1.24	7.30 J	27.6 J	0.780	0.337
Benzo(j)+(k)Fluoranthene	ug/kg	34.3	1.28	0.819	5.4	0.323	0.718	4.69 J	14.5 J	0.417	0.208
Chrysene/Triphenylene	ug/kg	37.3	3.07	1.74	34.6 J	1.13	2.68	11.7 J	65.4 J	2.20	0.918
Dibenz(a,h)Anthracene	ug/kg	8.21	0.528	0.360	3.90	0.176	0.421	1.97 J	6.52 J	0.258	0.167
Fluoranthene	ug/kg	50.6	3.57	1.94	14.9 J	3.73	3.12	10.8	16.8	3.78	2.00
Fluorene	ug/kg	9.64	2.87	1.66	6.39	8.51	4.49	8.12	6.22	5.67	5.25
Indeno[1,2,3-cd]pyrene	ug/kg	27.1	1.33	0.884	7.43	0.444	0.840	3.80 J	11.5 J	0.396	0.327
Naphthalene	ug/kg	10.4	5.52	2.94	6.01	3.60	1.71	6.61	5.39	1.36	3.15
Phenanthrene	ug/kg	34.0	8.96	4.78	20.5 J	24.6	17.7	24.7	29.9	23.3	14.3
Pyrene	ug/kg	38.3	2.51	1.35	18.1	0.635	1.00	9.74 J	52.0 J	0.914	--
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	42.9	2.93	1.92	21.1 J	0.816	2.65	12.7 J	35.3 J	1.41	0.736
C1-Chrysenes	ug/kg	--	3.55	2.20	82.0	1.28	5.25	27.9 J	152 J	7.74	2.19
C1-Fluoranthenes/Pyrenes	ug/kg	20.5	2.91	1.67	57.5	1.05	3.40	20.2 J	132 J	3.11	0.966
C1-Fluorenes	ug/kg	5.39	1.11	0.873	--	3.25	--	5.32 J	20.3 J	--	2.18
C1-Phenanthrenes/Anthracenes	ug/kg	17.2	5.38	3.57	21.1	7.27	6.06	12.2 J	50.5 J	8.46	7.03
C2-Chrysenes	ug/kg	--	4.16	2.45	120	1.27	7.63	46.1 J	206 J	11.2	3.58
C2-Fluorenes	ug/kg	14.9	--	--	--	--	--	--	--	--	--
C2-Naphthalenes	ug/kg	12.4	4.31	3.00	14.5	7.87	4.83	11.1	16.2	--	--
C2-Phenanthrenes/Anthracenes	ug/kg	20.6	--	--	114	5.80	8.15	29.6 J	261 J	9.59	--
C3-Chrysenes	ug/kg	--	3.98	1.89	75.0	1.05	4.99	33.2 J	167 J	8.06	2.44
C3-Fluorenes	ug/kg	15.0	--	--	--	--	--	--	--	--	--
C3-Naphthalenes	ug/kg	13.8	4.16	2.31	16.4	3.58	3.68	10.3 J	29.0 J	--	--
C3-Phenanthrenes/Anthracenes	ug/kg	21.3	--	--	271	2.66	13.4	77.0 J	604 J	15.2	--
C4-Chrysenes	ug/kg	--	--	--	52.2	--	--	18.8 J	78.3 J	4.25	--
C4-Naphthalenes	ug/kg	13.7	3.47	--	48.1	--	--	31.0 J	103 J	--	--
C4-Phenanthrenes/Anthracenes	ug/kg	16.4	--	--	292	--	11.5	83.4 J	612 J	14.4	--
Perylene	ug/kg	9.10 J	0.415 J	0.236 J	1.55 J	0.069 J	R	R	4.98 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-016	SO-DA-016	SO-DA-016	SO-DA-017	SO-DA-017	SO-DA-017	SO-DA-018	SO-DA-018	SO-DA-018	SO-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013
	Sample ID	SO-DA-016(0.0-0.5)	SO-DA-016(0.5-1.0)	SO-DA-016(1.0-1.5)	SO-DA-017(0.0-0.5)	SO-DA-017(0.5-1.0)	SO-DA-017(1.0-1.5)	SO-DA-018(0.0-0.5)	SO-DA-DUP-03-080613FD	SO-DA-018(0.5-1.0)	SO-DA-018(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
C1-Dibenzothiophenes	ug/kg	5.67	1.42	0.931	15.1	2.77	2.46	5.72 J	46.3 J	2.05	1.32
C1-Naphthalenes	ug/kg	7.46	2.96	1.84	7.95	3.47	1.86	5.98	7.19	1.61	3.29
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	9.89	1.88	1.08	100	--	4.65	20.5 J	222 J	4.51	--
C2-Fluoranthenes/Pyrenes	ug/kg	--	5.55	2.45	84.4	1.31	6.09	28.1 J	215 J	6.73	1.88
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	17.9	3.15	0.803	280	--	11.4	86.1 J	693	13.2	--
C3-Fluoranthenes/Pyrenes	ug/kg	--	3.88	--	75.7	--	4.56	24.1 J	202 J	5.66	1.48
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	13.3	1.59	1.04	300	--	9.41	92.7 J	702 J	21.7	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	4.48	--	129	--	4.58	48.8 J	207 J	9.58	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	4.48	1.08	0.696	4.97	2.39	1.64	3.04 J	9.68 J	1.74	1.43
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	9 J	--	--	22	10 J	6 J	15	14	--	4 J
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	110	39	39	210	97	63	130	140	42	53
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	1 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-020	SO-DA-020	SO-DA-020	SO-DA-021	SO-DA-021
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-019(0.0-0.5)	SO-DA-019(0.5-1.0)	SO-DA-019(1.0-1.5)	SO-DA-019(1.5-2.0)	SO-DA-019(2.0-3.0)	SO-DA-019(3.0-4.0)	SO-DA-020(0.0-0.5)	SO-DA-020(0.5-1.0)	SO-DA-020(1.0-1.5)	SO-DA-021(0.0-0.5)	SO-DA-021(0.5-1.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	3.87	3.70	2.75	3.91	3.04	5.65	6.82	5.55	6.88	5.23	3.36
Barium	mg/kg	67.9	91.7	55.8	50.6	58.3	112	117	80.9	43.5	62.1	65.8
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	10.7	13.2	12.1	15.2	12.8	21.5	17.7	12.8	18.3	9.45	12.4
Lead	mg/kg	15.9	13.1	10.4	11.4	10.5	22.5	24.5	13.1	14.5	15.3	11.7
Mercury	mg/kg	0.0287 J	0.0251 J	0.0112 J	--	--	--	0.0502 J	0.0238 J	--	0.0204 J	0.0229 J
Nickel	mg/kg	7.27	8.69	7.63	7.79	7.64	14.0	12.8	8.04	7.55	6.60	8.51
Selenium	mg/kg	--	1.19 J	1.05 J	1.21 J	--	1.70 J	--	--	--	--	1.16 J
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	18.9	23.8	22.2	25.9	23.9	36.0	28.9	24.3	36.0	16.5	22.2
Other												
Black Carbon	%	--	NA	NA	NA	NA	NA	--	NA	NA	--	NA
Percent Moisture	%	14.0	15.7	15.0	14.1	13.5	39.3	23.1	18.5	13.9	17.7	17.2
Total Organic Carbon	%	1.78	NA	NA	NA	NA	NA	1.68	NA	NA	1.61	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	4.34	5.50	0.274 J	NA	NA	NA	1.96	0.607	0.401 J	2.17	1.04
2-Methylnaphthalene	ug/kg	10.1	9.17	0.556 J	NA	NA	NA	4.39	1.21 J	0.761 J	5.48	2.20
Acenaphthene	ug/kg	1.67	1.57	0.159	NA	NA	NA	0.266	0.119	0.096 J	--	0.127
Acenaphthylene	ug/kg	2.43	1.37	0.045	NA	NA	NA	1.19	0.170	0.106	--	0.193
Anthracene	ug/kg	2.04	0.855	--	NA	NA	NA	1.29	0.115 J	0.083 J	--	0.192
Benzo(a)Anthracene	ug/kg	6.57	6.61	0.468	NA	NA	NA	5.11	0.480	0.321	4.42	0.713
Benzo(a)Pyrene	ug/kg	8.25 J	10.1	0.486	NA	NA	NA	2.57	0.109	0.078 J	6.24	0.566
Benzo(b)Fluoranthene	ug/kg	28.9	22.1	1.37	NA	NA	NA	17.7	1.48	0.795	18.5	2.82
Benzo(g,h,i)Perylene	ug/kg	19.1 J	17.3	0.864	NA	NA	NA	5.33	0.393	0.148	11.0	1.01
Benzo(j)+(k)Fluoranthene	ug/kg	5.99	8.22	0.384	NA	NA	NA	4.57	0.316	0.174	7.09	0.753
Chrysene/Triphenylene	ug/kg	59.6	42.5	3.33	NA	NA	NA	17.1	0.986	0.540	35.1	3.87
Dibenz(a,h)Anthracene	ug/kg	4.45	3.95	0.274	NA	NA	NA	1.83	0.163	0.082	3.13	0.310
Fluoranthene	ug/kg	11.4	12.0	0.876	NA	NA	NA	11.3	1.06	0.951	8.49	2.53
Fluorene	ug/kg	3.96	3.81	0.493	NA	NA	NA	2.23	1.17	1.14	--	1.89
Indeno[1,2,3-cd]pyrene	ug/kg	5.63	5.36	0.325	NA	NA	NA	5.05	0.483	0.188	4.60	0.560
Naphthalene	ug/kg	4.27	3.38	--	NA	NA	NA	3.52	1.29	0.652	2.25	1.02
Phenanthrene	ug/kg	22.1	21.2	2.28	NA	NA	NA	12.2	3.64	4.47	11.8	8.68
Pyrene	ug/kg	40.7	36.5	1.54	NA	NA	NA	9.31	0.537	0.282	21.0	2.37
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	34.5	26.8	1.71	NA	NA	NA	9.34	0.842	0.473	21.7	2.14
C1-Chrysenes	ug/kg	104	124	8.79	NA	NA	NA	22.3	1.56	--	80.0	9.76
C1-Fluoranthenes/Pyrenes	ug/kg	94	119	6.56	NA	NA	NA	14.0	0.849	0.482	55.1	6.32
C1-Fluorenes	ug/kg	16.8	30.4	1.10	NA	NA	NA	3.21	0.714	0.653	--	3.16
C1-Phenanthrenes/Anthracenes	ug/kg	85.9	92.2	12.8	NA	NA	NA	15.5	--	--	28.3	15.3
C2-Chrysenes	ug/kg	149	165	12.6	NA	NA	NA	26.2	1.97	--	89.6	10.1
C2-Fluorenes	ug/kg	63.2	--	--	NA	NA	NA	10.2	--	--	--	9.44
C2-Naphthalenes	ug/kg	19.6	33.1	1.44	NA	NA	NA	7.27	2.10	1.63	13.9	6.71
C2-Phenanthrenes/Anthracenes	ug/kg	260	394	31.5	NA	NA	NA	35.2	--	--	125	28.8
C3-Chrysenes	ug/kg	106	104	7.83	NA	NA	NA	17.3	1.91	--	60.8	7.39
C3-Fluorenes	ug/kg	154	--	--	NA	NA	NA	19.7	--	--	--	21.9
C3-Naphthalenes	ug/kg	39.2	69.6	1.62	NA	NA	NA	8.63	1.59	0.785	26.9	12.5
C3-Phenanthrenes/Anthracenes	ug/kg	464	740	45.5	NA	NA	NA	55.0	--	--	278	39.7
C4-Chrysenes	ug/kg	39.5	63.9	4.14	NA	NA	NA	7.80	--	--	38.9	5.32
C4-Naphthalenes	ug/kg	70.9	211	3.73	NA	NA	NA	13.3	1.99	--	52.9	14.7
C4-Phenanthrenes/Anthracenes	ug/kg	347	542	34.4	NA	NA	NA	46.2	--	--	234	25.6
Perylene	ug/kg	3.60 J	4.24	0.309 J	NA	NA	NA	R	R	R	2.10 J	R
Phenanthrene, 2-methyl-	ug/kg	27.1	29.1	2.90	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	3.00	2.39	--	NA	NA	NA	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	28.3	30.9	3.35	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	5.33	8.90	0.784	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	23.1 J	24.7	2.77	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	4.22	7.91	0.135	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	31.7	34.9	3.19	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	6.15	6.76	4.95	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	8.46	9.88	0.753	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	17.1 J	24.1	1.58	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	21.8	23.2	2.30	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	43.7	44.3	4.37	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	33.4	35.9	3.75	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	1.69	3.97	0.431	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	0.423	0.295	0.177	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	4.97	4.68	--	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-019	SO-DA-020	SO-DA-020	SO-DA-020	SO-DA-021	SO-DA-021
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-019(0.0-0.5)	SO-DA-019(0.5-1.0)	SO-DA-019(1.0-1.5)	SO-DA-019(1.5-2.0)	SO-DA-019(2.0-3.0)	SO-DA-019(3.0-4.0)	SO-DA-020(0.0-0.5)	SO-DA-020(0.5-1.0)	SO-DA-020(1.0-1.5)	SO-DA-021(0.0-0.5)	SO-DA-021(0.5-1.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
C1-Dibenzothiophenes	ug/kg	76.3	81.0	8.04	NA	NA	NA	8.03	0.704	0.586	25.4	14.3
C1-Naphthalenes	ug/kg	9.19	9.33	0.529 J	NA	NA	NA	4.05	1.16	0.739 J	4.89	2.07
C1-Naphthobenzothiophenes	ug/kg	218	258	19.3	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	475	439	29.4	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	14.5	10.9	--	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	233	339	25.8	NA	NA	NA	27.7	1.10	0.734	112	30.5
C2-Fluoranthenes/Pyrenes	ug/kg	131	159	12.5	NA	NA	NA	20.8	1.87	0.925	89.8	8.85
C2-Naphthobenzothiophenes	ug/kg	371	403	25.7	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	662	537	39.4	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	17.8	21.1	--	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	409	762	43.8	NA	NA	NA	57.0	2.48	0.957	270	41.7
C3-Fluoranthenes/Pyrenes	ug/kg	129	157	11.5	NA	NA	NA	18.2	1.32	0.634	77.7	8.70
C3-Naphthobenzothiophenes	ug/kg	312	315	24.5	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	35.6	69.1	--	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	380	589	36.7	NA	NA	NA	54.2	3.31	1.66	256	33.3
C4-Fluoranthenes/Pyrenes	ug/kg	199	183	16.0	NA	NA	NA	30.6	2.38	1.28	111	12.8
C4-Naphthobenzothiophenes	ug/kg	132	169	12.6	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	--	--	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	3.71	3.32	0.394	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	15.8 J	17.9	1.14	NA	NA	NA	2.61	0.492	0.486	6.85	3.39
Naphthalene, 2,6-dimethyl-	ug/kg	10.1	13.7	0.505	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	69.7	98.9	6.58	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	23.6	43.6	2.86	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	15	5 J	7 J	7 J	6 J	8 J	31	--	--	9 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	89	53	44	41	41	43	230	51	44	100	27
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	1 J	1 J	--	1 J	1 J	1 J	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-023	SO-DA-023
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-021(1.0-1.5)	SO-DA-021(1.5-2.0)	SO-DA-021(2.0-3.0)	SO-DA-021(3.0-4.0)	SO-DA-022(0.0-0.5)	SO-DA-DUP-04-080713FD	SO-DA-022(0.5-1.0)	SO-DA-022(1.0-1.5)	SO-DA-023(0.0-0.5)	SO-DA-DUP-05-080813FD
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Metals											
Arsenic	mg/kg	5.82	NA	NA	NA	6.76	7.19	7.79	6.48	5.05	5.55
Barium	mg/kg	56.0	NA	NA	NA	90.2 J	762 J	89.6	74.6	79.1	78.8
Cadmium	mg/kg	--	NA	NA	NA	--	0.101 J	--	--	--	--
Chromium	mg/kg	12.9	NA	NA	NA	15.2	19.7	22.5	16.3	12.7	12.5
Lead	mg/kg	12.9	NA	NA	NA	18.4	28.3	14.2	13.0	16.3	16.2
Mercury	mg/kg	0.0185 J	NA	NA	NA	0.0360 J	0.0270 J	0.0284 J	0.0263 J	0.0209 J	0.0315 J
Nickel	mg/kg	8.38	NA	NA	NA	9.99	15.6	8.91	9.51	9.67	9.81
Selenium	mg/kg	--	NA	NA	NA	--	4.71	--	--	--	--
Silver	mg/kg	--	NA	NA	NA	--	0.522 J	--	--	--	--
Vanadium	mg/kg	23.8	NA	NA	NA	26.6	36.0	31.7	29.7	21.9	21.2
Other											
Black Carbon	%	NA	NA	NA	NA	--	--	NA	NA	--	--
Percent Moisture	%	19.4	17.1	14.4	14.2	25.5	17.2	10.1	8.0	17.2	15.9
Total Organic Carbon	%	NA	NA	NA	NA	1.76	1.65	NA	NA	1.21	1.22
Priority PAHs											
1-Methylnaphthalene	ug/kg	0.362 J	NA	NA	NA	4.02	2.85	0.501 J	0.397 J	2.75	2.75
2-Methylnaphthalene	ug/kg	0.759 J	NA	NA	NA	7.27	5.42	1.03 J	0.808 J	7.56	8.17
Acenaphthene	ug/kg	--	NA	NA	NA	--	--	0.191	0.183	0.976 J	--
Acenaphthylene	ug/kg	--	NA	NA	NA	1.99 J	--	0.131	0.101	2.01 J	--
Anthracene	ug/kg	--	NA	NA	NA	--	--	--	0.057 J	--	--
Benzo(a)Anthracene	ug/kg	--	NA	NA	NA	--	--	0.294	0.442	6.99	5.29
Benzo(a)Pyrene	ug/kg	--	NA	NA	NA	12.0	11.7	0.142	0.167	12.5	9.09
Benzo(b)Fluoranthene	ug/kg	--	NA	NA	NA	23.0	27.8	0.989	1.03	27.9	25.7
Benzo(g,h,i)Perylene	ug/kg	--	NA	NA	NA	20.4	19.0	0.567	0.804	22.9	26.8
Benzo(j)+(k)Fluoranthene	ug/kg	--	NA	NA	NA	8.63	11.1	0.210	0.213	12.4 J	6.90
Chrysene/Triphenylene	ug/kg	--	NA	NA	NA	61.2 J	--	2.05	2.65	47.2	50.0
Dibenz(a,h)Anthracene	ug/kg	--	NA	NA	NA	4.90	4.71	0.196	0.234	5.12	5.87
Fluoranthene	ug/kg	0.767	NA	NA	NA	13.2	13.6	0.861	0.738	12.8	10.8
Fluorene	ug/kg	1.17	NA	NA	NA	4.45 J	--	--	1.38	5.40 J	2.49 J
Indeno[1,2,3-cd]pyrene	ug/kg	--	NA	NA	NA	6.05	5.89	0.292	0.395	9.33	10.1
Naphthalene	ug/kg	0.668	NA	NA	NA	3.01	3.15	1.23	0.913	3.58	4.02
Phenanthrene	ug/kg	4.40	NA	NA	NA	32.1	22.3	4.06	3.32	18.0	13.7
Pyrene	ug/kg	0.322	NA	NA	NA	40.3	38.7	0.787	1.18	29.4	30.2
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	--	NA	NA	NA	34.1	33.3	1.10	1.46	40.2	41.1
C1-Chrysenes	ug/kg	--	NA	NA	NA	162 J	--	5.82	--	114	135
C1-Fluoranthenes/Pyrenes	ug/kg	1.10	NA	NA	NA	159	171	2.50	3.16	92.3	91.6
C1-Fluorenes	ug/kg	0.790	NA	NA	NA	35.3 J	--	0.866	0.881	21.7 J	--
C1-Phenanthrenes/Anthracenes	ug/kg	4.61	NA	NA	NA	143	98.0	--	--	30.1	27.3
C2-Chrysenes	ug/kg	--	NA	NA	NA	223 J	--	5.44	--	146	242
C2-Fluorenes	ug/kg	--	NA	NA	NA	143 J	--	--	--	--	--
C2-Naphthalenes	ug/kg	1.52	NA	NA	NA	50.9	31.2	2.75	2.16	12.6	12.6
C2-Phenanthrenes/Anthracenes	ug/kg	--	NA	NA	NA	446	369	--	--	174	146
C3-Chrysenes	ug/kg	--	NA	NA	NA	163 J	--	4.57	--	114	188
C3-Fluorenes	ug/kg	--	NA	NA	NA	281 J	--	--	--	--	--
C3-Naphthalenes	ug/kg	1.37	NA	NA	NA	160	115	2.45	2.55	27.4	26.1
C3-Phenanthrenes/Anthracenes	ug/kg	--	NA	NA	NA	780	798	--	--	447	355
C4-Chrysenes	ug/kg	--	NA	NA	NA	115 J	--	3.19	--	79.7	113
C4-Naphthalenes	ug/kg	--	NA	NA	NA	328	314	--	--	93.2 J	50.5 J
C4-Phenanthrenes/Anthracenes	ug/kg	--	NA	NA	NA	679	556	--	--	436	343
Perylene	ug/kg	R	NA	NA	NA	4.19 J	--	R	R	--	--
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-021	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-022	SO-DA-023	SO-DA-023
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013	8/7/2013	8/8/2013	8/8/2013
	Sample ID	SO-DA-021(1.0-1.5)	SO-DA-021(1.5-2.0)	SO-DA-021(2.0-3.0)	SO-DA-021(3.0-4.0)	SO-DA-022(0.0-0.5)	SO-DA-DUP-04-080713FD	SO-DA-022(0.5-1.0)	SO-DA-022(1.0-1.5)	SO-DA-023(0.0-0.5)	SO-DA-DUP-05-080813FD
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
C1-Dibenzothiophenes	ug/kg	1.46	NA	NA	NA	176	120	--	--	26.4	22.7
C1-Naphthalenes	ug/kg	0.714 J	NA	NA	NA	7.17	5.26	0.972 J	0.767 J	6.59	7.13
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	3.68	NA	NA	NA	542	460	--	--	189	129
C2-Fluoranthenes/Pyrenes	ug/kg	2.17	NA	NA	NA	261	248	5.32	6.13	155	163
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	6.70	NA	NA	NA	954	1013	--	--	529	380
C3-Fluoranthenes/Pyrenes	ug/kg	1.84	NA	NA	NA	216	180	4.57	5.37	129	186
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	6.41	NA	NA	NA	822	812	--	--	537	412
C4-Fluoranthenes/Pyrenes	ug/kg	2.71	NA	NA	NA	238	218	6.88	--	167 J	290 J
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	0.623	NA	NA	NA	36.7	23.4	0.588	0.484	9.34	6.46
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	33	17	10 J	7 J	31	25
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	29	17 J	19 J	--	240	160	98	79	220	190
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	5 J	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	3 J	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	2 J	--	--	--	--
Trichloroethene	ug/kg	2 J	2 J	2 J	2 J	2 J	--	2 J	3 J	5 J	3 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-024	SO-DA-024	SO-DA-024	SO-DA-025	SO-DA-025	SO-DA-025
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-023(0.5-1.0)	SO-DA-023(1.0-1.5)	SO-DA-023(1.5-2.0)	SO-DA-023(2.0-3.0)	SO-DA-023(3.0-4.0)	SO-DA-024(0.0-0.5)	SO-DA-024(0.5-1.0)	SO-DA-024(1.0-1.5)	SO-DA-025(0.0-0.5)	SO-DA-025(0.5-1.0)	SO-DA-025(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	5.08	5.59	NA	NA	NA	8.74	2.77	6.77	4.99	5.44	4.89
Barium	mg/kg	78.0	64.5	NA	NA	NA	75.1	92.1	80.9	124	67.0	70.0
Cadmium	mg/kg	--	--	NA	NA	NA	--	--	--	--	--	--
Chromium	mg/kg	14.2	16.2	NA	NA	NA	26.4	45.9	37.6	17.0	15.1	21.9
Lead	mg/kg	11.4	10.9	NA	NA	NA	12.5	15.3	13.9	30.2	12.1	11.0
Mercury	mg/kg	0.0276 J	0.0299 J	NA	NA	NA	0.0136 J	0.0158 J	0.0243 J	0.0287 J	0.0144 J	0.0190 J
Nickel	mg/kg	10.9	10.8	NA	NA	NA	11.2	15.4	13.7	10.8	7.23	8.66
Selenium	mg/kg	--	--	NA	NA	NA	--	--	--	1.92 J	1.41 J	1.16 J
Silver	mg/kg	--	--	NA	NA	NA	--	0.357 J	0.283 J	--	--	--
Vanadium	mg/kg	25.0	28.9	NA	NA	NA	40.7	62.2	56.0	31.6	31.2	44.6
Other												
Black Carbon	%	NA	NA	NA	NA	NA	--	NA	NA	--	NA	NA
Percent Moisture	%	17.0	19.8	22.1	19.8	15.4	13.3	18.3	16.3	35.1	19.8	20.3
Total Organic Carbon	%	NA	NA	NA	NA	NA	0.61	NA	NA	1.48	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	1.02	0.568	NA	NA	NA	2.31	0.862	1.10	3.39	0.717	0.406 J
2-Methylnaphthalene	ug/kg	2.17	1.18 J	NA	NA	NA	4.52	1.82	2.16	5.61	1.34	0.668 J
Acenaphthene	ug/kg	--	--	NA	NA	NA	--	--	--	0.304	--	--
Acenaphthylene	ug/kg	--	--	NA	NA	NA	--	--	--	0.824	--	--
Anthracene	ug/kg	--	--	NA	NA	NA	0.529	--	--	0.860	--	--
Benzo(a)Anthracene	ug/kg	0.471	0.446	NA	NA	NA	2.10	--	--	2.73	0.109 J	0.143 J
Benzo(a)Pyrene	ug/kg	0.426	0.336	NA	NA	NA	2.13	0.046 J	--	3.11	--	--
Benzo(b)Fluoranthene	ug/kg	1.76	1.25	NA	NA	NA	8.18	0.266	0.081 J	11.0	--	--
Benzo(g,h,i)Perylene	ug/kg	2.33	1.72	NA	NA	NA	9.77	0.214	0.067 J	4.92	--	0.137
Benzo(j)+(k)Fluoranthene	ug/kg	0.882	0.485	NA	NA	NA	2.55	0.082 J	0.019 J	3.32	--	--
Chrysene/Triphenylene	ug/kg	3.89	2.69	NA	NA	NA	20.1	0.521	--	18.7	0.145	0.262
Dibenz(a,h)Anthracene	ug/kg	0.515	0.338	NA	NA	NA	1.99	0.071	0.029 J	1.70	--	--
Fluoranthene	ug/kg	1.61	0.883	NA	NA	NA	6.69	1.16	1.58	8.18	0.675	0.572
Fluorene	ug/kg	2.62	1.21	NA	NA	NA	2.86	3.40	5.62	2.62	1.95	1.08
Indeno[1,2,3-cd]pyrene	ug/kg	0.985	0.607	NA	NA	NA	3.56	0.127	0.042 J	2.81	--	0.113
Naphthalene	ug/kg	1.63	0.913	NA	NA	NA	2.09	1.54	1.64	3.84	1.05	0.579
Phenanthrene	ug/kg	7.85	3.43	NA	NA	NA	19.0	9.28	15.3	15.5	5.50	3.51
Pyrene	ug/kg	1.49	1.39	NA	NA	NA	14.1	0.236	0.139	9.47	0.219	0.375
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	2.86	1.94	NA	NA	NA	10.4	0.332	0.106 J	8.48	--	--
C1-Chrysenes	ug/kg	8.85	6.33	NA	NA	NA	51.8	1.46	--	29.7	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	5.42	4.50	NA	NA	NA	36.7	0.765	--	28.0	0.356 J	0.524
C1-Fluorenes	ug/kg	1.89	0.939	NA	NA	NA	13.0	1.32	2.40	5.53	1.03	0.693
C1-Phenanthrenes/Anthracenes	ug/kg	5.51	4.13	NA	NA	NA	61.0	4.62	5.25	38.4	--	--
C2-Chrysenes	ug/kg	--	--	NA	NA	NA	82.5	--	--	38.5	--	--
C2-Fluorenes	ug/kg	--	--	NA	NA	NA	50.4	--	3.22	30.4	--	--
C2-Naphthalenes	ug/kg	4.78	2.51	NA	NA	NA	16.6	3.53	5.10	12.6	3.62	1.98
C2-Phenanthrenes/Anthracenes	ug/kg	13.0	11.2	NA	NA	NA	144	6.64	5.23	103	--	--
C3-Chrysenes	ug/kg	--	--	NA	NA	NA	56.3	--	--	29.2	--	--
C3-Fluorenes	ug/kg	--	--	NA	NA	NA	90.2	--	--	71.0	--	--
C3-Naphthalenes	ug/kg	3.60	2.25	NA	NA	NA	39.9	2.43	3.37	24.7	4.29	2.89
C3-Phenanthrenes/Anthracenes	ug/kg	23.3	18.4	NA	NA	NA	172	4.16	--	153	--	--
C4-Chrysenes	ug/kg	--	--	NA	NA	NA	37.5	--	--	16.6	--	--
C4-Naphthalenes	ug/kg	7.20	3.96	NA	NA	NA	59.8	2.89	3.96	46.1	--	3.38
C4-Phenanthrenes/Anthracenes	ug/kg	22.7	16.7	NA	NA	NA	120	3.26	--	103	--	--
Perylene	ug/kg	R	R	NA	NA	NA	1.12 J	R	R	1.16 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-023	SO-DA-024	SO-DA-024	SO-DA-024	SO-DA-025	SO-DA-025	SO-DA-025
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/8/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-023(0.5-1.0)	SO-DA-023(1.0-1.5)	SO-DA-023(1.5-2.0)	SO-DA-023(2.0-3.0)	SO-DA-023(3.0-4.0)	SO-DA-024(0.0-0.5)	SO-DA-024(0.5-1.0)	SO-DA-024(1.0-1.5)	SO-DA-025(0.0-0.5)	SO-DA-025(0.5-1.0)	SO-DA-025(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
C1-Dibenzothiophenes	ug/kg	2.57	1.55	NA	NA	NA	72.7	1.25	0.904	32.9	0.536	0.660
C1-Naphthalenes	ug/kg	2.07	1.14	NA	NA	NA	4.44	1.74	2.12	5.71	1.31	0.681 J
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	8.66	7.09	NA	NA	NA	165	3.23	1.42	108	0.932	1.43
C2-Fluoranthenes/Pyrenes	ug/kg	9.53	6.94	NA	NA	NA	56.6	1.25	--	45.3	--	0.814
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	23.7	22.4	NA	NA	NA	261	4.19	1.45	183	0.954	2.35
C3-Fluoranthenes/Pyrenes	ug/kg	6.90	5.08	NA	NA	NA	59.1	1.35	--	43.6	--	0.765
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	24.5	18.1	NA	NA	NA	195	3.46	0.827	142	0.906	2.51
C4-Fluoranthenes/Pyrenes	ug/kg	12.3	9.54	NA	NA	NA	89.3	--	--	54.7	--	1.36
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	1.10	0.589	NA	NA	NA	13.4	0.761	1.03	6.14	0.470	0.384
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	9 J	--	--	--	--	5 J	--	--	7 J	--	7 J
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	80	17 J	20 J	--	--	56	50	56	130	46	74
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	2 J	2 J	3 J	2 J	4 J	5 J	3 J	2 J	--	1 J	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-026	SO-DA-026	SO-DA-026	SO-DA-027	SO-DA-027	SO-DA-027	SO-DA-028	SO-DA-028	SO-DA-028	SO-DA-029
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/11/2013	8/11/2013	8/11/2013	8/8/2013	8/8/2013	8/8/2013	8/11/2013	8/11/2013	8/11/2013	8/11/2013
	Sample ID	SO-DA-026-(0.0-0.5)	SO-DA-026-(0.5-1.0)	SO-DA-026-(1.0-1.5)	SO-DA-027(0.0-0.5)	SO-DA-027(0.5-1.0)	SO-DA-027(1.0-1.5)	SO-DA-028-(0.0-0.5)	SO-DA-028-(0.5-1.0)	SO-DA-028-(1.0-1.5)	SO-DA-029-(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
Metals											
Arsenic	mg/kg	6.72	5.50	7.53	13.8	42.8	39.8	6.28	5.55	7.50	8.58
Barium	mg/kg	93.1	74.5	204	173	77.8	83.9	68.2	42.9	45.6	100
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	16.2	13.7	41.9	33.1	70.8	89.6	15.5	14.9	21.2	25.5
Lead	mg/kg	21.4	16.6	14.7	31.1	32.0	34.6	30.4	10.7	11.6	26.7
Mercury	mg/kg	0.0275 J	0.0134 J	--	0.0304 J	--	0.0151 J	0.0377 J	0.0164 J	0.0134 J	0.0206 J
Nickel	mg/kg	10.9	10.2	30.3	15.9	22.2	37.7	8.31	7.12	9.02	13.1
Selenium	mg/kg	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	0.345 J	--	1.05 J	--	--	--	--
Vanadium	mg/kg	27.5	22.2	64.5	49.2	52.5	52.8	27.4	27.1	37.8	42.8
Other											
Black Carbon	%	--	NA	NA	--	NA	NA	--	NA	NA	--
Percent Moisture	%	20.8	21.1	22.6	11.3	13.3	15.1	29.6	17.3	15.7	24.0
Total Organic Carbon	%	1.11 J	NA	NA	1.43	NA	NA	1.99	NA	NA	0.86 J
Priority PAHs											
1-Methylnaphthalene	ug/kg	3.30	1.02	1.05	2.86	0.869	0.409 J	2.12	3.37	1.94	4.11
2-Methylnaphthalene	ug/kg	7.37	2.62	2.10	3.76	1.81	0.867 J	4.33	6.65	3.82	8.92
Acenaphthene	ug/kg	0.352	--	--	--	0.081 J	--	--	--	--	0.187
Acenaphthylene	ug/kg	--	--	--	--	0.119	--	--	--	--	0.175
Anthracene	ug/kg	0.303	--	--	--	--	--	0.259	0.079 J	--	--
Benzo(a)Anthracene	ug/kg	0.547	0.094 J	--	1.80	--	0.076 J	0.730	--	--	0.249
Benzo(a)Pyrene	ug/kg	0.283 J	0.020 J	--	1.50	--	--	0.467	--	--	0.055 J
Benzo(b)Fluoranthene	ug/kg	1.53	0.250	--	4.71	0.177 J	0.222	2.28	--	--	0.865
Benzo(g,h,i)Perylene	ug/kg	0.478	0.057 J	--	7.04	0.081 J	0.120	0.815	--	--	0.138
Benzo(j)+(k)Fluoranthene	ug/kg	0.272	0.098 J	--	1.63	0.028 J	0.038 J	0.904	--	--	0.255
Chrysene/Triphenylene	ug/kg	1.02	0.230	--	14.1	--	0.448	1.72	--	--	0.691
Dibenz(a,h)Anthracene	ug/kg	--	0.047 J	--	1.32	0.036 J	0.052 J	--	--	--	0.144
Fluoranthene	ug/kg	2.66	0.602	0.427	6.53	0.913	0.432	2.21	1.15	0.648	1.53
Fluorene	ug/kg	6.92	1.48	2.01	3.73	2.46	0.925	2.15	6.66	3.43	4.27
Indeno[1,2,3-cd]pyrene	ug/kg	0.534	0.102	--	1.91	0.069	0.083	0.966	--	--	0.354
Naphthalene	ug/kg	8.56	3.64	2.98	2.37	1.74	1.16	6.51	6.40	4.40	10.3
Phenanthrene	ug/kg	16.6 J	3.93	4.07	28.3	7.15	3.10	5.01	12.4	6.36	10.4
Pyrene	ug/kg	0.921	0.139	0.077 J	11.4	0.128 J	0.169	1.52	0.149	0.094 J	0.456
Forensic PAHs											
Benzo(e)Pyrene	ug/kg	0.730	0.148 J	--	6.70	0.148 J	0.245	1.163	--	--	0.398
C1-Chrysenes	ug/kg	--	--	--	50.0	--	1.11	--	--	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	1.02	0.132 J	--	--	--	0.435 J	1.31	--	--	0.451 J
C1-Fluorenes	ug/kg	2.86	0.633	0.834	14.4	1.12	0.601	1.13	2.46	1.90	1.69
C1-Phenanthrenes/Anthracenes	ug/kg	5.54	--	--	81.3	3.88	3.29	3.42	4.29	--	4.85
C2-Chrysenes	ug/kg	--	--	--	65.8	--	--	--	--	--	--
C2-Fluorenes	ug/kg	--	--	--	64.5	1.76	--	--	--	--	--
C2-Naphthalenes	ug/kg	7.53	1.77	--	27.1	3.66	1.27	5.00	8.26	4.77	10.1
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	--	157	4.46	5.68	--	--	--	4.59
C3-Chrysenes	ug/kg	--	--	--	46.9	--	--	--	--	--	--
C3-Fluorenes	ug/kg	--	--	--	112	--	--	--	--	--	--
C3-Naphthalenes	ug/kg	3.82	1.36	--	71.0	2.15	1.06	3.88	5.79	4.62	7.32
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	--	192	--	2.95	--	--	--	1.09
C4-Chrysenes	ug/kg	--	--	--	31.5	--	--	--	--	--	--
C4-Naphthalenes	ug/kg	4.33	--	--	83.8	2.53	--	2.17	3.89	--	19.3
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	139	--	2.18	--	--	--	1.35
Perylene	ug/kg	R	R	R	0.800 J	R	R	R	R	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-026	SO-DA-026	SO-DA-026	SO-DA-027	SO-DA-027	SO-DA-027	SO-DA-028	SO-DA-028	SO-DA-028	SO-DA-029
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/11/2013	8/11/2013	8/11/2013	8/8/2013	8/8/2013	8/8/2013	8/11/2013	8/11/2013	8/11/2013	8/11/2013
	Sample ID	SO-DA-026-(0.0-0.5)	SO-DA-026-(0.5-1.0)	SO-DA-026-(1.0-1.5)	SO-DA-027(0.0-0.5)	SO-DA-027(0.5-1.0)	SO-DA-027(1.0-1.5)	SO-DA-028-(0.0-0.5)	SO-DA-028-(0.5-1.0)	SO-DA-028-(1.0-1.5)	SO-DA-029-(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**										
C1-Dibenzothiophenes	ug/kg	1.17	0.428	0.310	103	0.905	0.760	--	--	--	1.52
C1-Naphthalenes	ug/kg	6.95	2.37	2.05	4.28	1.74	0.830 J	4.19	6.51	3.75	8.47
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	1.02	0.432	0.429	195	1.41	2.19	--	--	0.334	1.70
C2-Fluoranthenes/Pyrenes	ug/kg	--	0.384 J	--	--	--	1.08	--	--	--	--
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	--	0.360	0.563	276	1.62	3.80	--	--	0.246	0.840
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	--	--	--	1.14	--	--	--	--
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	--	--	0.375	183	0.833	2.62	--	--	--	0.515
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	--	--	--	--	--	--	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	1.12	0.382	0.260	18.9	0.767	0.406	0.481	0.642	0.340	1.23
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
VOCs											
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	12 J	12	--	8 J	5 J	10 J	11 J	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	130	100	33	110	76	110	230	27	13 J	60
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	4 J	1 J	2 J	2 J	2 J	3 J	--	--	2 J	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-029	SO-DA-029	SO-DA-032	SO-DA-032	SO-DA-032
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/11/2013	8/11/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-029-(0.5-1.0)	SO-DA-029-(1.0-1.5)	SO-DA-032(0.0-0.5)	SO-DA-032(0.5-1.0)	SO-DA-032(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**					
Metals						
Arsenic	mg/kg	11.1	9.19	11.0	10.2	8.02
Barium	mg/kg	82.9	79.0	59.9	55.9	73.3
Cadmium	mg/kg	--	--	--	--	--
Chromium	mg/kg	23.2	26.4	20.4	16.9	31.9
Lead	mg/kg	23.4	24.8	15.8	13.2	15.0
Mercury	mg/kg	0.0254 J	0.0284 J	0.0301 J	0.0144 J	0.0237 J
Nickel	mg/kg	10.9	11.9	6.69	6.31	11.1
Selenium	mg/kg	--	--	1.98 J	1.13 J	1.96 J
Silver	mg/kg	--	--	--	--	--
Vanadium	mg/kg	46.5	53.1	37.7	33.3	60.5
Other						
Black Carbon	%	NA	NA	--	NA	NA
Percent Moisture	%	23.0	23.4	33.6	22.9	29.4
Total Organic Carbon	%	NA	NA	1.13	NA	NA
Priority PAHs						
1-Methylnaphthalene	ug/kg	2.30	2.35	1.64	0.475 J	0.516 J
2-Methylnaphthalene	ug/kg	4.67	4.78	3.43	0.866 J	0.966 J
Acenaphthene	ug/kg	0.105	0.083 J	0.322	0.078 J	0.085 J
Acenaphthylene	ug/kg	0.078	0.044	0.918	0.082	0.073
Anthracene	ug/kg	--	--	1.00	0.059 J	0.058 J
Benzo(a)Anthracene	ug/kg	0.070 J	--	2.04	0.125 J	--
Benzo(a)Pyrene	ug/kg	--	0.026 J	3.22	--	--
Benzo(b)Fluoranthene	ug/kg	0.150 J	0.134 J	11.8	--	--
Benzo(g,h,i)Perylene	ug/kg	0.033 J	0.023 J	4.45	--	--
Benzo(j)+(k)Fluoranthene	ug/kg	0.033 J	0.025 J	3.68	--	--
Chrysene/Triphenylene	ug/kg	0.064 J	--	14.7	0.159	--
Dibenz(a,h)Anthracene	ug/kg	0.023 J	0.020 J	1.52	--	--
Fluoranthene	ug/kg	0.562	0.552	6.57	0.505	0.447
Fluorene	ug/kg	2.97	2.84	3.20	1.07	1.20
Indeno[1,2,3-cd]pyrene	ug/kg	0.075	0.055	2.73	--	--
Naphthalene	ug/kg	5.29	6.00	2.84	0.786	0.807
Phenanthrene	ug/kg	5.96	6.00	13.2	3.14	3.23
Pyrene	ug/kg	0.059 J	0.089 J	8.20	0.290	0.278
Forensic PAHs						
Benzo(e)Pyrene	ug/kg	0.068 J	0.074 J	8.12	--	--
C1-Chrysenes	ug/kg	--	--	25.3	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	--	--	22.8	0.326 J	0.463 J
C1-Fluorenes	ug/kg	1.00	0.955	5.41	0.653	0.770
C1-Phenanthrenes/Anthracenes	ug/kg	3.16	--	26.1	--	--
C2-Chrysenes	ug/kg	--	--	30.6	--	--
C2-Fluorenes	ug/kg	--	--	24.5	--	--
C2-Naphthalenes	ug/kg	4.75	4.52	7.61	2.44	2.75
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	64.0	--	--
C3-Chrysenes	ug/kg	--	--	24.6	--	--
C3-Fluorenes	ug/kg	--	--	54.0	--	--
C3-Naphthalenes	ug/kg	2.23	1.78	15.8	4.75	3.35
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	110	--	--
C4-Chrysenes	ug/kg	--	--	13.9	--	--
C4-Naphthalenes	ug/kg	6.43	5.10	30.3	4.24	3.38
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	82.9	--	--
Perylene	ug/kg	R	0.074 J	1.65 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SO-DA-029	SO-DA-029	SO-DA-032	SO-DA-032	SO-DA-032
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/11/2013	8/11/2013	8/7/2013	8/7/2013	8/7/2013
	Sample ID	SO-DA-029-(0.5-1.0)	SO-DA-029-(1.0-1.5)	SO-DA-032(0.0-0.5)	SO-DA-032(0.5-1.0)	SO-DA-032(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**					
C1-Dibenzothiophenes	ug/kg	0.451	0.406	24.2	0.537	0.670
C1-Naphthalenes	ug/kg	4.53	4.63	3.22	0.852 J	0.942 J
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	0.486	0.391	75.5	0.832	1.23
C2-Fluoranthenes/Pyrenes	ug/kg	--	--	36.1	--	--
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	0.220 J	0.306	117	0.944	1.56
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	34.0	--	--
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	--	--	108	0.551	1.56
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	42.1	--	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	0.457	0.437	4.26	0.354	0.385
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA
VOCs						
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--
2-Butanone (MEK)	ug/kg	9 J	4 J	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--
Acetone	ug/kg	99	61	83	22	13 J
Benzene	ug/kg	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Soil Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:
% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

ARCADIS

DARSP Sediment Sampling Data Tables

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Drainage Ways Sediment

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-BG-001	SED-DA-BG-002	SED-DA-BG-003	SED-DA-BG-004	SED-DA-BG-005	SED-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/4/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-BG-001(0.0-0.5)	SED-DA-BG-002(0.0-0.5)	SED-DA-BG-003(0.0-0.5)	SED-DA-BG-004(0.0-0.5)	SED-DA-BG-005(0.0-0.5)	SED-DA-BG-006(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**						
Metals							
Arsenic	mg/kg	39.8 J	7.34 J	9.94 J	5.41	5.79	7.94
Barium	mg/kg	76.1	68.8	83.4	120	75.4	384
Cadmium	mg/kg	0.318 J	--	--	0.105 J	--	--
Chromium	mg/kg	20.6 J	26.7 J	19.3 J	15.5 J	22.4 J	34.8 J
Lead	mg/kg	59.5	21.4	23.1	16.0	29.7	15.6
Mercury	mg/kg	0.0605 J	--	0.0269 J	0.0381 J	0.0234 J	0.0107 J
Nickel	mg/kg	14.0	12.5	12.0	14.6	6.58	52.8
Selenium	mg/kg	--	--	--	1.05 J	1.23 J	1.81 J
Silver	mg/kg	--	--	--	0.259 J	--	0.269 J
Vanadium	mg/kg	29.6 J	33.4 J	29.0 J	20.5	45.2	47.6
Other							
Black Carbon	%	1.22	--	0.22 J	--	--	--
Percent Moisture	%	25.6	20.1	26.7	27.1	19.6	11.7
Total Organic Carbon	%	4.27	0.69	1.45	1.94	0.42	0.31 J
Priority PAHs							
1-Methylnaphthalene	ug/kg	11.6	3.07	3.56	6.94	1.72	1.21
2-Methylnaphthalene	ug/kg	22.8	5.47	5.92	13.9	3.64	2.41
Acenaphthene	ug/kg	3.64	0.300	0.576	27.1	1.12	--
Acenaphthylene	ug/kg	259	1.68	4.26	34.8	2.14	0.376
Anthracene	ug/kg	264	1.70	6.48	65.1	3.39	--
Benzo(a)Anthracene	ug/kg	272	2.22	6.08	687	80.0	0.185 J
Benzo(a)Pyrene	ug/kg	322	1.93	5.28	1448	65.6	0.153
Benzo(b)Fluoranthene	ug/kg	861	16.2	48.1	4056	--	0.682
Benzo(g,h,i)Perylene	ug/kg	316	4.64	16.2	2121	55.0	0.316
Benzo(j)+(k)Fluoranthene	ug/kg	201	5.88	15.0	1409	215	0.243
Chrysene/Triphenylene	ug/kg	405	6.67	20.3	2601	135	0.438
Dibenz(a,h)Anthracene	ug/kg	113	1.67	4.66	441	19.6	0.100
Fluoranthene	ug/kg	398	14.4	26.4	2671	191	1.65
Fluorene	ug/kg	18.0	2.47	4.34	41.2	4.70	3.85
Indeno[1,2,3-cd]pyrene	ug/kg	313	4.63	13.7	1878	61.5	0.321
Naphthalene	ug/kg	25.0	5.77	7.86	39.8	4.36	2.13
Phenanthrene	ug/kg	111	10.6	18.1	966	63.2	9.05
Pyrene	ug/kg	481	7.14	13.3	2201	149	0.585
Forensic PAHs							
Benzo(e)Pyrene	ug/kg	423	8.10	22.6	1899	94.1	0.362
C1-Chrysenes	ug/kg	292	3.98	8.79	527	28.7	--
C1-Fluoranthenes/Pyrenes	ug/kg	307	4.45	8.91	705	66.5	0.931
C1-Fluorenes	ug/kg	--	--	2.54	15.0	0.973	0.189 J
C1-Phenanthrenes/Anthracenes	ug/kg	115	8.54	12.0	219	22.0	4.66
C2-Chrysenes	ug/kg	140	3.84	6.83	225	9.36	--
C2-Fluorenes	ug/kg	--	--	--	30.1	--	--
C2-Naphthalenes	ug/kg	34.5	10.8	17.2	15.8	4.57	4.23
C2-Phenanthrenes/Anthracenes	ug/kg	109	10.3	12.1	128	15.3	--
C3-Chrysenes	ug/kg	82.2	--	--	107	2.84	--
C3-Fluorenes	ug/kg	--	--	--	38.5	--	--
C3-Naphthalenes	ug/kg	26.6	7.31	16.8	12.2	2.63	3.10
C3-Phenanthrenes/Anthracenes	ug/kg	86.6	6.11	--	94.4	7.81	--
C4-Chrysenes	ug/kg	--	--	--	50.1	--	--
C4-Naphthalenes	ug/kg	19.5	3.24	--	9.70	2.64	3.50
C4-Phenanthrenes/Anthracenes	ug/kg	68.7	--	--	64.3	3.44	--
Perylene	ug/kg	69.8	0.452 J	R	254	8.40 J	--
Phenanthrene, 2-methyl-	ug/kg	32.8	3.17	4.80	111 J	7.56 J	0.875 J
1,1-Biphenyl	ug/kg	19.6	2.94	5.95	8.57	1.49	0.983
18a-Oleanane	ug/kg	--	--	14.1	--	--	--
1-Methyldibenzothiophene(1MDT)	ug/kg	1.64	0.225	0.364	2.96	0.318	0.176
1-Methylfluorene	ug/kg	--	--	3.55	4.21	0.492	0.351
1-Methylphenanthrene	ug/kg	16.7	1.50	1.99	57.3	4.77	0.524
2,3,5-Trimethylnaphthalene	ug/kg	3.64	1.17	1.77	2.35	0.420	0.640
2/3-Methyldibenzothiophene(2MDT)	ug/kg	3.37	0.841	0.586	9.72	0.808	0.312
2-Methylanthracene	ug/kg	63.6	4.58	5.28	12.5	3.28	2.72
2-Methylfluoranthene	ug/kg	82.0	1.04	1.91	171	10.2	0.054 J
3,6-Dimethylphenanthrene	ug/kg	6.51	--	0.173	15.4	1.08	--
3-Methylphenanthrene (3MP)	ug/kg	22.9	2.00	3.03	95.9	6.14	0.695
4-Methyldibenzothiophene(4MDT)	ug/kg	5.80	0.669	0.823	9.32	0.975	0.659
9/4-Methylphenanthrene (9MP)	ug/kg	39.5	1.84	3.24	59.1	3.85	0.602

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Drainage Ways Sediment

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-BG-001	SED-DA-BG-002	SED-DA-BG-003	SED-DA-BG-004	SED-DA-BG-005	SED-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/4/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-BG-001(0.0-0.5)	SED-DA-BG-002(0.0-0.5)	SED-DA-BG-003(0.0-0.5)	SED-DA-BG-004(0.0-0.5)	SED-DA-BG-005(0.0-0.5)	SED-DA-BG-006(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**						
Benzo(a)Fluoranthene	ug/kg	154	1.72	5.58	154	82.9	--
Benzo(b)fluorene	ug/kg	24.6	0.34	0.786	158	21.0	0.082 J
Benzothiophene	ug/kg	1.19	--	--	--	0.224	--
C1-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C1-Decalins	ug/kg	--	--	--	--	1.65	--
C1-Dibenzothiophenes	ug/kg	8.51	1.37	1.40	17.3	1.66	0.903
C1-Naphthalenes	ug/kg	23.3	5.76	6.38	14.1	3.39	2.29
C1-Naphthobenzothiophenes	ug/kg	77.8	5.93	--	159	8.81	--
C20-TAS	ug/kg	--	--	--	--	--	--
C21-TAS	ug/kg	--	--	--	--	--	--
C26(20R)/C27(20S)-TAS	ug/kg	--	--	--	--	--	--
C26(20S)-TAS	ug/kg	--	--	--	--	--	--
C27(20R)-TAS	ug/kg	--	--	--	--	--	--
C28(20R)-TAS	ug/kg	--	--	--	--	--	--
C28(20S)-TAS	ug/kg	--	--	--	--	--	--
C29-Hopane	ug/kg	--	--	52.6	57.0	4.75	--
C2-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C2-Decalins	ug/kg	--	--	--	--	--	--
C2-Dibenzothiophenes	ug/kg	15.0	1.50	--	21.9	1.60	0.870
C2-Fluoranthenes/Pyrenes	ug/kg	321	9.19	20.5	1011	59.9	0.442 J
C2-Naphthobenzothiophenes	ug/kg	64.1	3.41	--	122	4.50	--
C30-Hopane	ug/kg	--	--	71.7	62.4	4.91	--
C3-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C3-Decalins	ug/kg	--	--	--	--	--	--
C3-Dibenzothiophenes	ug/kg	21.3	--	--	30.6	1.29	0.308
C3-Fluoranthenes/Pyrenes	ug/kg	208	3.75	7.88	302	13.4	--
C3-Naphthobenzothiophenes	ug/kg	69.5	3.02	--	99.8	2.75	--
C4-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--
C4-Decalins	ug/kg	--	--	--	--	--	--
C4-Dibenzothiophenes	ug/kg	20.7	--	--	21.1	0.615	--
C4-Fluoranthenes/Pyrenes	ug/kg	158	--	--	175	18.7	--
C4-Naphthobenzothiophenes	ug/kg	36.3	--	--	29.4	--	--
Carbazole	ug/kg	45.9	0.982	3.63	176	13.7	0.19
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	--	--	--	3.72	--
Dibenzofuran	ug/kg	16.0	3.62	6.14	38.0	3.52	2.75
Dibenzothiophene	ug/kg	11.3	0.937	1.74	40.2	3.31	1.11
Naphthalene, 2,6-dimethyl-	ug/kg	12.4	3.59	3.68	5.82	2.51	2.38
Naphthobenzothiophene	ug/kg	85.7	2.89	--	390	27.5	--
Retene	ug/kg	15.5	--	--	4.30	0.468	--
TPH							
EOM (Extracted Organic Material)	mg/kg	4915	279	641	1074	104	36 J
i-C15	mg/kg	0.009 J	0.007 J	0.030	0.008 J	0.009 J	0.010 J
i-C16	mg/kg	0.031	0.023	0.023	0.006	0.008	0.003 J
i-C18	mg/kg	0.009	0.010	0.022	0.009	0.007	0.009
n-C10 (n-Decane)	mg/kg	0.016 J	0.008 J	--	0.019 J	--	--
n-C11 (n-Undecane)	mg/kg	0.021	0.014 J	--	0.023	0.006 J	0.006 J
n-C12 (n-Dodecane)	mg/kg	0.035	0.027	0.024	0.019	0.024	0.023
n-C13 (n-Tridecane)	mg/kg	0.029 J	0.016 J	0.010 J	0.014 J	0.017 J	0.021 J
n-C14 (n-Tetradecane)	mg/kg	0.037	0.033	0.032	0.017	0.029	0.041
n-C15 (Pentadecane)	mg/kg	0.020	0.034	0.228	0.071	0.023	0.030
n-C16 (n-Hexadecane)	mg/kg	0.027	0.024	0.071	0.021	0.032	0.048
n-C17 (Heptadecane)	mg/kg	0.029	0.015	0.017	0.072	0.045	0.020
n-C18 (Octadecane)	mg/kg	0.051	0.011	0.072	0.269	0.047	0.041
n-C19 (Nonadecane)	mg/kg	0.048	0.028	0.051	0.013	0.032	0.014
n-C20 (Eicosane)	mg/kg	0.035	0.017	0.014	0.009 J	0.008 J	0.009 J
n-C21 (Heneicosane)	mg/kg	0.090	0.016	0.040	0.234	0.021	0.013
n-C22 (Docosane)	mg/kg	0.076	0.037	0.136	0.044	0.012	0.010
n-C23 (Tricosane)	mg/kg	0.122	0.022	0.083	0.191	0.029	0.017
n-C24 (Tetracosane)	mg/kg	0.030	0.019	0.029	0.063	0.020	0.013
n-C25 (Pentacosane)	mg/kg	0.176	0.055	0.110	0.367	0.045	0.030
n-C26 (Hexacosane)	mg/kg	0.046	0.031	0.027	0.189	0.029	0.014
n-C27 (Heptacosane)	mg/kg	0.252	0.133	0.225	0.493	0.085	0.049
n-C28 (Octacosane)	mg/kg	0.138	0.053	0.024	0.258	0.040	0.008 J
n-C29 (Nonacosane)	mg/kg	2.624	0.344	0.312	0.874	0.180	0.048
n-C30 (n-Triacontane)	mg/kg	0.311	0.089	0.169	0.155	0.025	0.007 J
n-C31 (Hentriacontane)	mg/kg	2.303	0.650	1.364	1.229	0.177	0.042

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Drainage Ways Sediment

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-BG-001	SED-DA-BG-002	SED-DA-BG-003	SED-DA-BG-004	SED-DA-BG-005	SED-DA-BG-006
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/4/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-BG-001(0.0-0.5)	SED-DA-BG-002(0.0-0.5)	SED-DA-BG-003(0.0-0.5)	SED-DA-BG-004(0.0-0.5)	SED-DA-BG-005(0.0-0.5)	SED-DA-BG-006(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**						
n-C32 (Dotriacontane)	mg/kg	0.238	0.073	0.147	0.129	0.007 J	0.005 J
n-C33	mg/kg	1.090	0.342	0.601	1.130	0.120	0.034
n-C34 (Tetratriacontane)	mg/kg	0.107	0.019	0.085	0.112	0.004 J	0.001 J
n-C35	mg/kg	0.198	0.089	0.132	0.542	0.113	0.030
n-C36 (Hexatriacontane)	mg/kg	0.094	0.007 J	0.052	0.096	0.002 J	--
n-C37	mg/kg	0.093	0.046	0.054	0.261	0.069	--
n-C38 (Octatriacontane)	mg/kg	0.098	--	0.043	0.070	--	--
n-C39 (Nonatriacontane)	mg/kg	0.045	--	--	0.177	--	--
n-C40 (Tetracontane)	mg/kg	0.122	--	--	0.142	--	--
n-C9 (Nonane)	mg/kg	--	--	--	--	--	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.004 J	0.005 J	0.009	0.047	0.004 J	0.009
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.035	0.006	0.025	0.103	0.009	0.020
Total Alkanes	mg/kg	8.7	2.3	4.3	7.5	1.3	0.6
Total Petroleum Hydrocarbons	mg/kg	454	147	214	313	62	15
Total Resolveable Hydrocarbons	mg/kg	77	30	90	106	17	12
Unresolved Complex Mixture	mg/kg	377	117	124	207	45	3
VOCs							
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	5 J	--	6 J	12 J	6 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--
Acetone	ug/kg	69	66	77	120	83	71
Benzene	ug/kg	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--
Trichloroethene	ug/kg	--	2 J	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--

Notes:
% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-BG-007	SED-DA-BG-008	SED-DA-BG-009	SED-DA-BG-009	SED-DA-BG-010	SED-DA-BG-011	SED-DA-BG-012
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/15/2013
	Sample ID	SED-DA-BG-007(0.0-0.5)	SED-DA-BG-008(0.0-0.5)	SED-DA-BG-009(0.0-0.5)	SED-DA-DUP-03-073113FD	SED-DA-BG-010(0.0-0.5)	SED-DA-BG-011(0.0-0.5)	SED-DA-BG-012(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**							
Metals								
Arsenic	mg/kg	6.98	5.17	3.60	2.73 J	4.64	3.91	7.18 J
Barium	mg/kg	139	174	90.8	75.9	157	143	113
Cadmium	mg/kg	0.479 J	0.339 J	0.250 J	0.133 J	0.662 J	0.389 J	0.375 J
Chromium	mg/kg	25.3 J	33.8 J	18.0 J	15.0 J	103 J	38.0 J	38.5 J
Lead	mg/kg	34.2	35.8	18.0	13.5	55.5	31.8	31.2
Mercury	mg/kg	0.0663 J	0.0933 J	0.0551 J	0.0430 J	0.204	0.154 J	0.172 J
Nickel	mg/kg	26.1	33.9	17.8	13.5	66.2	23.9	41.4
Selenium	mg/kg	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	0.961	0.679 J	1.33
Vanadium	mg/kg	40.0	46.2 J	23.4 J	19.6 J	31.4 J	26.5 J	19.0
Other								
Black Carbon	%	--	0.22 J	--	--	--	--	--
Percent Moisture	%	55.1	50.3	44.3	31.6	35.4	41.8	52.7
Total Organic Carbon	%	3.18	4.18	1.86	1.92	2.10	2.37	3.94
Priority PAHs								
1-Methylnaphthalene	ug/kg	4.12	4.62	2.61	2.62	5.55	5.54	6.92
2-Methylnaphthalene	ug/kg	9.72	12.7	6.89	6.82	15.1	13.8	19.1
Acenaphthene	ug/kg	3.229	2.27	1.55	1.61	2.49	2.58	3.84
Acenaphthylene	ug/kg	19.2	5.09	2.88	3.18	6.13	7.54	12.0
Anthracene	ug/kg	30.3	10.7 J	6.99	7.32	13.8	15.5	24.7
Benzo(a)Anthracene	ug/kg	49.0	12.7	9.46	10.2	26.6	32.9	49.6
Benzo(a)Pyrene	ug/kg	35.8	10.9	5.27	6.84	32.7	44.2	57.9
Benzo(b)Fluoranthene	ug/kg	101	44.2	21.3	26.3	94.5	138	169
Benzo(g,h,i)Perylene	ug/kg	31.8	15.1	5.84	7.14	30.1	42.3	74.2
Benzo(j)+(k)Fluoranthene	ug/kg	37.2	14.3	4.78	6.08	31.1	30.8	40.9
Chrysene/Triphenylene	ug/kg	64.0	28.1	16.7	17.6	58.6	78.9	109
Dibenz(a,h)Anthracene	ug/kg	9.5	5.99	2.40	2.89	8.96	10.9	2.04
Fluoranthene	ug/kg	88.1	46.7	28.8	28.5	103	152	200
Fluorene	ug/kg	21.3	20.2	10.3	10.2	18.5	20.1	19.5
Indeno[1,2,3-cd]pyrene	ug/kg	31.5	12.0	5.20	6.43	27.4	41.0	6.46
Naphthalene	ug/kg	10.5	10.4	6.10	6.08	10.7	10.9	15.3
Phenanthrene	ug/kg	56.3	51.7	29.8	33.7	77.9	106	63.0
Pyrene	ug/kg	77.0	30.3	24.5	24.9	64.0	81.7	192
Forensic PAHs								
Benzo(e)Pyrene	ug/kg	51.7	19.3	9.60	11.8	51.8	70.4	78.6
C1-Chrysenes	ug/kg	35.7	37.6	27.1	24.2	45.3	50.8	147
C1-Fluoranthenes/Pyrenes	ug/kg	50.6	31.3	19.0	18.8	67.9	63.9	175
C1-Fluorenes	ug/kg	8.14	10.7	5.51	6.04	14.1	14.4	24.2
C1-Phenanthrenes/Anthracenes	ug/kg	27.7	23.1	17.0	17.6	46.0	57.3	77.3
C2-Chrysenes	ug/kg	19.7	18.5	10.5	9.20	33.9	29.7	80.9
C2-Fluorenes	ug/kg	21.4	30.8	13.6	16.7	31.5	34.7	69.3
C2-Naphthalenes	ug/kg	17.0	--	9.95	10.7	25.3	23.8	47.9
C2-Phenanthrenes/Anthracenes	ug/kg	33.5	27.6	21.0	23.8	73.9	82.7	154
C3-Chrysenes	ug/kg	11.4	16.8	7.09	5.24	22.4	17.4	43.6
C3-Fluorenes	ug/kg	--	31.6	14.6	10.9	57.4	52.8	161
C3-Naphthalenes	ug/kg	40.6	--	16.2	18.2	27.9	28.0	58.4
C3-Phenanthrenes/Anthracenes	ug/kg	32.8	26.4	22.6	22.8	103	93.6	270
C4-Chrysenes	ug/kg	8.45	15.7	--	--	12.5	--	20.5
C4-Naphthalenes	ug/kg	23.0	--	11.5	13.3	35.3	41.8	88.8
C4-Phenanthrenes/Anthracenes	ug/kg	25.3	25.5	22.7 J	--	89.4	--	310
Perylene	ug/kg	621 EJ	753	292	316	256	54.8	298
Phenanthrene, 2-methyl-	ug/kg	6.67 J	9.26	4.51 J	4.76 J	16.0 J	18.8 J	31.2
1,1-Biphenyl	ug/kg	4.16	4.47	2.88	2.76	7.55	7.38	7.68
18a-Oleanane	ug/kg	--	--	--	--	--	--	--
1-Methyldibenzothiophene(1MDT)	ug/kg	0.826	0.952	0.487	0.413	4.05	8.07	7.84
1-Methylfluorene	ug/kg	4.72	4.71	2.37	2.31	7.39	8.19	8.79
1-Methylphenanthrene	ug/kg	4.80	3.55	3.34	3.39	7.08	10.2	19.9
2,3,5-Trimethylnaphthalene	ug/kg	3.38	2.08	1.71	1.57	4.46	4.17	5.18
2/3-Methyldibenzothiophene(2MDT)	ug/kg	1.61	2.87	1.41	1.29	8.40	11.4	14.3
2-Methylanthracene	ug/kg	7.31	5.87	4.26	4.26	6.01	6.02	14.7
2-Methylfluoranthene	ug/kg	9.66	4.49	2.64	2.79	6.61	8.37	15.9
3,6-Dimethylphenanthrene	ug/kg	1.83	2.62	1.38	1.62	5.98	8.94	23.8
3-Methylphenanthrene (3MP)	ug/kg	7.39	6.95	4.54	4.95	13.5	18.1	28.8
4-Methyldibenzothiophene(4MDT)	ug/kg	2.39	3.49	1.63	1.73	11.7	24.1	19.6
9/4-Methylphenanthrene (9MP)	ug/kg	6.01	6.60	3.13	3.09	10.8	13.4	23.9

	Location	SED-DA-BG-007	SED-DA-BG-008	SED-DA-BG-009	SED-DA-BG-009	SED-DA-BG-010	SED-DA-BG-011	SED-DA-BG-012
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/15/2013
	Sample ID	SED-DA-BG-007(0.0-0.5)	SED-DA-BG-008(0.0-0.5)	SED-DA-BG-009(0.0-0.5)	SED-DA-DUP-03-073113FD	SED-DA-BG-010(0.0-0.5)	SED-DA-BG-011(0.0-0.5)	SED-DA-BG-012(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**							
Benzo(a)Fluoranthene	ug/kg	14.1	7.33	5.04	5.17	9.30	11.3	16.9
Benzo(b)fluorene	ug/kg	14.1	9.36	5.39	5.59	13.9	14.8	37.1
Benzothiophene	ug/kg	0.67	0.696	0.455	0.542	1.65	1.65	0.848
C1-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--	--
C1-Decalins	ug/kg	--	--	--	--	--	--	--
C1-Dibenzothiophenes	ug/kg	3.8	6.42	2.78	2.71	19.0	34.4	32.8
C1-Naphthalenes	ug/kg	8.8	10.4	6.03	5.99	13.1	12.3	17.7
C1-Naphthobenzothiophenes	ug/kg	14.1	15.5	8.66	9.11	45.8	50.6	72.8
C20-TAS	ug/kg	--	--	--	--	--	--	--
C21-TAS	ug/kg	--	--	--	--	--	--	--
C26(20R)/C27(20S)-TAS	ug/kg	--	--	--	--	--	--	--
C26(20S)-TAS	ug/kg	--	--	--	--	--	--	--
C27(20R)-TAS	ug/kg	--	--	--	--	--	--	--
C28(20R)-TAS	ug/kg	--	--	--	--	--	--	--
C28(20S)-TAS	ug/kg	--	--	--	--	--	--	--
C29-Hopane	ug/kg	--	--	--	--	--	--	--
C2-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--	--
C2-Decalins	ug/kg	--	--	--	--	--	--	--
C2-Dibenzothiophenes	ug/kg	6.64	13.7	5.23	5.43	40.6	50.6	105
C2-Fluoranthenes/Pyrenes	ug/kg	53.1	36.5	26.7	25.0	98.6	116	216
C2-Naphthobenzothiophenes	ug/kg	16.1	26.1	11.0	10.4	65.6	62.2	110
C30-Hopane	ug/kg	--	--	--	--	--	--	--
C3-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--	--
C3-Decalins	ug/kg	--	--	--	--	--	--	--
C3-Dibenzothiophenes	ug/kg	8.65	16.9	7.29	7.59	74.8	68.6	223
C3-Fluoranthenes/Pyrenes	ug/kg	24.5	23.3	10.8	9.08	34.5	37.5	81.7
C3-Naphthobenzothiophenes	ug/kg	14.3	25.8	12.5	15.3	63.1	39.1	87.5
C4-Benzo(b)thiophenes	ug/kg	--	--	--	--	--	--	--
C4-Decalins	ug/kg	--	--	--	--	--	--	--
C4-Dibenzothiophenes	ug/kg	11.4	17.8	7.24	8.49	78.3	60.8	226
C4-Fluoranthenes/Pyrenes	ug/kg	23.7	30.0	15.5	16.9	35.0	36.1	88.7
C4-Naphthobenzothiophenes	ug/kg	7.97	12.9	6.62	6.40	30.3	18.8	54.7
Carbazole	ug/kg	6.75	5.82	3.46	3.43	5.14	7.27	7.70
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	14.5	10.4	--	--	--	--	--
Dibenzofuran	ug/kg	11.7	11.4	5.76	6.07	10.6	13.3	9.44
Dibenzothiophene	ug/kg	5.4	8.29	2.81	2.86	11.4	17.9	15.3
Naphthalene, 2,6-dimethyl-	ug/kg	8.55	13.1	5.35	5.72	16.1	13.3	28.7
Naphthobenzothiophene	ug/kg	18.6	11.1	8.06	9.05	24.5	32.1	40.6
Retene	ug/kg	9.98	11.1	--	--	15.3	--	319
TPH								
EOM (Extracted Organic Material)	mg/kg	1660	2311	799	837	1813	1930	2630
i-C15	mg/kg	0.017	0.019	0.010 J	0.011 J	0.029	0.022	0.021
i-C16	mg/kg	0.044	0.071	0.007 J	0.046 J	0.024	0.010	0.120
i-C18	mg/kg	0.030	0.035	0.013	0.020	0.085	0.078	0.158
n-C10 (n-Decane)	mg/kg	--	0.024	0.009 J	0.011 J	0.025	0.021 J	0.018 J
n-C11 (n-Undecane)	mg/kg	0.017	0.033	0.016 J	0.016 J	0.030	0.027	0.018
n-C12 (n-Dodecane)	mg/kg	0.087	0.058	0.052	0.056	0.077	0.110	0.027
n-C13 (n-Tridecane)	mg/kg	0.043 J	0.057	0.018 J	0.020 J	0.050	0.054	0.012 J
n-C14 (n-Tetradecane)	mg/kg	0.094	0.111	0.037	0.036	0.069	0.073	0.033
n-C15 (Pentadecane)	mg/kg	0.262	0.448	0.109	0.112	0.178	0.212	0.079
n-C16 (n-Hexadecane)	mg/kg	0.206	0.223	0.085	0.090	0.159	0.205	0.035
n-C17 (Heptadecane)	mg/kg	0.630	0.859	0.226	0.221	0.330	0.512	0.195
n-C18 (Octadecane)	mg/kg	0.710	0.821	0.347	0.340	0.511	0.623	0.506
n-C19 (Nonadecane)	mg/kg	0.900	1.18	0.349	0.389	0.465	0.358	0.304
n-C20 (Eicosane)	mg/kg	0.280	0.382	0.099	0.098	0.111	0.113	0.100
n-C21 (Heneicosane)	mg/kg	2.501	1.95	1.071	0.805	0.770	0.878	0.729
n-C22 (Docosane)	mg/kg	0.242	0.283	0.103	0.095	0.109	0.144	0.098
n-C23 (Tricosane)	mg/kg	1.492	1.97	0.833	0.744	0.360	0.419	1.103
n-C24 (Tetracosane)	mg/kg	0.428	0.517	0.318	0.310	0.157	0.202	1.023
n-C25 (Pentacosane)	mg/kg	1.453	2.51	0.831	0.750	0.721	0.692	0.628
n-C26 (Hexacosane)	mg/kg	0.421	0.629	0.186	0.173	0.192	0.236	0.234
n-C27 (Heptacosane)	mg/kg	2.912	4.45	1.597	1.477	1.512	1.725	2.103
n-C28 (Octacosane)	mg/kg	0.862	1.16	0.314	0.419	0.558	0.619	0.562
n-C29 (Nonacosane)	mg/kg	4.426	4.93	2.964	2.959	3.522	1.556	6.049
n-C30 (n-Triacontane)	mg/kg	0.444	0.578	0.355	0.363	0.403	0.474	0.330
n-C31 (Hentriacontane)	mg/kg	3.698	3.99	2.019	1.783	3.137	1.687	4.927

Appendix K - Analytical Data Tables - Detected Analytes Only
Background Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-BG-007	SED-DA-BG-008	SED-DA-BG-009	SED-DA-BG-009	SED-DA-BG-010	SED-DA-BG-011	SED-DA-BG-012
	Depths (ft)	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/30/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	7/31/2013	8/15/2013
	Sample ID	SED-DA-BG-007(0.0-0.5)	SED-DA-BG-008(0.0-0.5)	SED-DA-BG-009(0.0-0.5)	SED-DA-DUP-03-073113FD	SED-DA-BG-010(0.0-0.5)	SED-DA-BG-011(0.0-0.5)	SED-DA-BG-012(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**							
n-C32 (Dotriacontane)	mg/kg	0.360	0.563	0.176	0.222	0.291	0.388	0.355
n-C33	mg/kg	1.833	2.82	1.177	1.092	1.991	1.817	3.471
n-C34 (Tetratriacontane)	mg/kg	0.079	0.207	0.112	0.072	0.074	0.226	0.496
n-C35	mg/kg	1.116	2.19	1.062	0.999	1.737	1.801	1.427
n-C36 (Hexatriacontane)	mg/kg	0.125	0.191	0.148	0.103	0.209	0.382	0.319
n-C37	mg/kg	1.011	2.14	0.889	0.820	0.974	1.553	0.771
n-C38 (Octatriacontane)	mg/kg	0.124	0.140	0.110	0.096	0.086	0.140	0.177
n-C39 (Nonatriacontane)	mg/kg	0.172	0.377	0.093	0.089	0.127	0.252	0.122
n-C40 (Tetracontane)	mg/kg	--	--	--	--	0.151	0.238	0.234
n-C9 (Nonane)	mg/kg	--	--	--	--	--	--	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.185	0.258	0.080	0.080	0.353	0.367	0.297
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.138	0.063	0.071 J	0.026 J	0.254	0.258	0.097
Total Alkanes	mg/kg	27.3	36.2	15.9	14.9	19.8	18.5	27.2
Total Petroleum Hydrocarbons	mg/kg	467	847	300	301	802	853	1051
Total Resolveable Hydrocarbons	mg/kg	218	315	140	140	165	196	239
Unresolved Complex Mixture	mg/kg	249	532	160	161	637	657	813
VOCs								
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	17 J	--	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--
Acetone	ug/kg	100	36 J	33 J	22 J	54	35	75
Benzene	ug/kg	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	9 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--

Notes:
% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-001	SED-DA-001	SED-DA-002	SED-DA-002	SED-DA-003	SED-DA-003	SED-DA-003	SED-DA-004	SED-DA-004	SED-DA-005	SED-DA-005
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-001(0.0-0.5)	SED-DA-001(0.5-1.0)	SED-DA-002(0.0-0.5)	SED-DA-002(0.5-1.0)	SED-DA-003(0.0-0.5)	SED-DA-DUP-09-081513FD	SED-DA-003(0.5-1.0)	SED-DA-004(0.0-0.5)	SED-DA-004(0.5-1.0)	SED-DA-005(0.0-0.5)	SED-DA-005(0.5-1.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	9.07 J	7.49 J	2.89 J	9.11 J	10.5 J	7.18 J	12.0 J	11.5 J	10.5 J	7.97	4.65
Barium	mg/kg	78.0	47.6	103	66.5	110	151	204	106	394	54.9	50.3
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	20.2 J	12.7 J	50.8 J	23.7 J	21.0 J	25.3 J	29.0 J	21.2 J	30.0 J	23.1 J	13.7 J
Lead	mg/kg	16.3	9.40	23.4	19.8	10.5 J	21.8 J	23.4	18.7	16.5	14.1 J	10.8 J
Mercury	mg/kg	--	--	0.0231 J	0.0215 J	0.0159 J	0.0234 J	--	--	--	0.0363 J	0.0277 J
Nickel	mg/kg	15.3	8.91	18.8	11.8	13.3	19.6	25.3	20.4	42.8	10.7	10.0
Selenium	mg/kg	--	--	--	--	--	--	--	--	--	1.43 J	1.56 J
Silver	mg/kg	--	--	0.338 J	--	--	--	--	--	--	--	--
Vanadium	mg/kg	24.2 J	19.4 J	38.0 J	31.9 J	29.0 J	33.8 J	35.2 J	23.1 J	36.4 J	30.3 J	22.5 J
Other												
Black Carbon	%	--	NA	--	NA	--	--	NA	--	NA	--	NA
Percent Moisture	%	19.7	18.4	24.5	25.4	23.3	20.8	22.9	26.9	24.1	21.0	14.8
Total Organic Carbon	%	0.3	NA	0.49	NA	0.49	0.53	NA	1.35	NA	0.37	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	2.24	0.731	2.16	1.57	1.10 J	2.78 J	1.20	25.3	0.722	1.11	0.687
2-Methylnaphthalene	ug/kg	2.48	1.44	4.77	3.04	2.16 J	5.22 J	2.35	83.9	1.71	2.37	1.55
Acenaphthene	ug/kg	1.77	0.496	0.260	0.215	0.157 J	0.450 J	0.234	--	0.668	0.114	0.092 J
Acenaphthylene	ug/kg	1.75 J	0.589	2.36	1.64	0.821 J	2.59 J	0.915	10.3	0.324	0.246	0.063
Anthracene	ug/kg	6.79 J	0.646	3.51	2.21	1.322 J	3.63 J	1.69	16.1	0.329	0.480	--
Benzo(a)Anthracene	ug/kg	21.1 J	0.757	2.77	2.27	1.64 J	5.72 J	2.35	29.8	0.522	0.714	0.432
Benzo(a)Pyrene	ug/kg	16.4 J	0.382	2.47	2.56	1.21 J	4.93 J	1.18	47.9	0.377	0.596	0.410
Benzo(b)Fluoranthene	ug/kg	28.2	1.99	14.1	9.14	6.59 J	16.7 J	6.42	130	1.51	2.15	0.794
Benzo(g,h,i)Perylene	ug/kg	13.3 J	0.674	7.90	3.55	3.50 J	8.05 J	1.87	82.0	1.03	1.32	0.355
Benzo(j)+(k)Fluoranthene	ug/kg	10.7 J	0.691	3.94	2.84	1.95 J	5.49 J	2.14	29.5	0.472	0.891	0.323
Chrysene/Triphenylene	ug/kg	23.6 J	1.09	9.25	5.53	5.41 J	14.4 J	6.64	150	2.07	3.24	0.595
Dibenz(a,h)Anthracene	ug/kg	4.73	0.305	2.30	1.17	0.991 J	2.27 J	0.809	19.4	0.257	0.349	0.107
Fluoranthene	ug/kg	51.0	2.07	6.59	5.09	4.83 J	11.2 J	4.23	59.0	3.05	2.04	1.47
Fluorene	ug/kg	2.21	4.42	3.13	3.11	1.88 J	4.72 J	3.46	18.8	4.35	2.17	2.59
Indeno[1,2,3-cd]pyrene	ug/kg	12.9 J	0.686	6.98	3.34	2.76 J	5.79 J	1.95	33.0	0.543	0.646	0.319
Naphthalene	ug/kg	2.60	1.37	3.78	3.01	2.23 J	4.11 J	2.17	25.8	1.64	1.58	1.26
Phenanthrene	ug/kg	35.1	9.97	10.7	9.79	6.58 J	15.4 J	9.38	44.6	13.7	6.43	7.95
Pyrene	ug/kg	41.5	0.758	5.25	3.68	3.61 J	10.1 J	2.72	131	2.16	2.60	0.550
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	14.3 J	0.915	8.26	4.36	4.21 J	9.70 J	3.45	91.4	1.15	2.03	0.447
C1-Chrysenes	ug/kg	14.4	--	7.41	--	7.74 J	21.1 J	--	380	3.21	6.54	--
C1-Fluoranthenes/Pyrenes	ug/kg	16.7	0.720	7.59	--	5.90 J	16.4 J	2.59	417	3.14	7.01	0.416 J
C1-Fluorenes	ug/kg	--	1.65	1.92	1.73	1.55 J	5.22 J	1.53	147	2.94	2.34	1.06
C1-Phenanthrenes/Anthracenes	ug/kg	21.2	5.06	10.8	6.91	8.52 J	20.1 J	6.13	311	9.22	15.0	4.14
C2-Chrysenes	ug/kg	7.49	--	11.5	--	9.31 J	29.5 J	--	486	4.11	9.11	--
C2-Fluorenes	ug/kg	--	--	7.24	--	--	20.0 J	--	478	8.26	12.5	--
C2-Naphthalenes	ug/kg	--	4.47	8.04	6.03	4.19 J	12.5 J	5.96	170	4.84	5.14	2.06
C2-Phenanthrenes/Anthracenes	ug/kg	16.0	--	13.8	6.00	14.7 J	46.9 J	5.91	1069	14.2	31.6	--
C3-Chrysenes	ug/kg	2.63	--	9.36	--	6.11 J	16.8 J	--	395	3.25	6.73	--
C3-Fluorenes	ug/kg	--	--	12.69	--	--	30.4 J	--	813	12.9	17.4	--
C3-Naphthalenes	ug/kg	--	5.89	7.04	5.25	4.79 J	16.8 J	5.61	371	10.5	8.78	1.18
C3-Phenanthrenes/Anthracenes	ug/kg	7.63	--	14.6	--	15.3 J	60.7 J	2.51	1708	14.8	37.8	--
C4-Chrysenes	ug/kg	1.43	--	5.26	--	3.64 J	11.1 J	--	175	--	3.64	--
C4-Naphthalenes	ug/kg	--	--	8.66	--	5.41 J	23.6 J	3.87	908	11.0	14.8	--
C4-Phenanthrenes/Anthracenes	ug/kg	4.92	--	11.8	--	16.2 J	53.6 J	--	1335	10.9	29.3	--
Perylene	ug/kg	4.18 J	0.076 J	0.767 J	0.604 J	0.449 J	1.64 J	0.246 J	38.8	0.149 J	0.242 J	--
Phenanthrene, 2-methyl-	ug/kg	6.59	NA	3.00	NA	1.88 J	6.19 J	NA	98.4	NA	3.70 J	NA
1,1-Biphenyl	ug/kg	0.814	NA	1.86	NA	0.991 J	2.08 J	NA	14.6	NA	1.02	NA
18a-Oleanane	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	0.303	NA	1.14	NA	0.891 J	4.48 J	NA	145	NA	4.28	NA
1-Methylfluorene	ug/kg	0.727	NA	1.41	NA	0.813 J	3.05 J	NA	67.9	NA	0.78	NA
1-Methylphenanthrene	ug/kg	4.11	NA	2.07	NA	1.25 J	4.08 J	NA	85.8	NA	3.40	NA
2,3,5-Trimethylnaphthalene	ug/kg	0.773	NA	0.882	NA	0.606 J	2.11 J	NA	48.9	NA	1.90	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	0.771	NA	1.61	NA	1.09 J	4.60 J	NA	141	NA	4.71	NA
2-Methylanthracene	ug/kg	6.97	NA	5.41	NA	5.24 J	5.42 J	NA	25.3	NA	2.87	NA
2-Methylfluoranthene	ug/kg	4.01	NA	0.841	NA	0.657 J	2.02 J	NA	29.2	NA	0.648	NA
3,6-Dimethylphenanthrene	ug/kg	1.10	NA	0.691	NA	0.648 J	2.64 J	NA	67.0	NA	1.64	NA
3-Methylphenanthrene (3MP)	ug/kg	5.90	NA	2.20	NA	1.54 J	4.72 J	NA	84.7	NA	3.27	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	0.920	NA	2.14	NA	1.57 J	6.74 J	NA	213	NA	6.67	NA
9/4-Methylphenanthrene (9MP)	ug/kg	5.10	NA	1.88	NA	1.61 J	6.71 J	NA	126	NA	4.24	NA
Benzo(a)Fluoranthene	ug/kg	3.50	NA	1.51	NA	0.450 J	1.66 J	NA	--	NA	--	NA
Benzo(b)fluorene	ug/kg	0.74	NA	0.410	NA	0.358 J	0.940 J	NA	26.4	NA	0.523	NA
Benzothiophene	ug/kg	0.216	NA	0.322	NA	0.297 J	0.579 J	NA	3.73	NA	0.143	NA
C1-Benzo(b)thiophenes	ug/kg	--	NA	1.70	NA	--	1.84 J	NA	33.4	NA	0.704	NA
C1-Decalins	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-001	SED-DA-001	SED-DA-002	SED-DA-002	SED-DA-003	SED-DA-003	SED-DA-003	SED-DA-004	SED-DA-004	SED-DA-005	SED-DA-005
Depths (ft)		0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/3/2013	8/3/2013
Sample ID		SED-DA-001(0.0-0.5)	SED-DA-001(0.5-1.0)	SED-DA-002(0.0-0.5)	SED-DA-002(0.5-1.0)	SED-DA-003(0.0-0.5)	SED-DA-DUP-09-081513FD	SED-DA-003(0.5-1.0)	SED-DA-004(0.0-0.5)	SED-DA-004(0.5-1.0)	SED-DA-005(0.0-0.5)	SED-DA-005(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
C1-Dibenzothiophenes	ug/kg	1.44	--	3.52	--	2.56 J	11.4 J	--	--	4.27	12.3	0.760
C1-Naphthalenes	ug/kg	3.04	1.44	4.50	3.07	2.11 J	5.19 J	2.36	71.0	1.62	2.20	1.45
C1-Naphthobenzothiophenes	ug/kg	4.88	NA	11.4	NA	10.4 J	34.5 J	NA	717	NA	13.8	NA
C20-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C21-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C26(20S)-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C27(20R)-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C28(20R)-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C28(20S)-TAS	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C29-Hopane	ug/kg	6.97	NA	48.4	NA	28.2 J	71.6 J	NA	850	NA	31.7	NA
C2-Benzo(b)thiophenes	ug/kg	--	NA	1.04	NA	--	2.63 J	NA	55.7	NA	1.28	NA
C2-Decalins	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C2-Dibenzothiophenes	ug/kg	--	--	8.00	--	9.00 J	32.9 J	--	1210	12.5	26.4	1.18
C2-Fluoranthenes/Pyrenes	ug/kg	17.1	--	10.9	--	8.39 J	28.3 J	4.28	584	4.24	11.9	0.495
C2-Naphthobenzothiophenes	ug/kg	4.91	NA	23.0	NA	18.7 J	62.0 J	NA	1049	NA	21.1	NA
C30-Hopane	ug/kg	9.26	NA	62.5	NA	38.5 J	88.9 J	NA	1036	NA	39.9	NA
C3-Benzo(b)thiophenes	ug/kg	--	NA	--	NA	--	3.73 J	NA	155	NA	2.06	NA
C3-Decalins	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C3-Dibenzothiophenes	ug/kg	--	--	11.6	--	11.9 J	46.6 J	--	1826	15.7	40.6	1.17
C3-Fluoranthenes/Pyrenes	ug/kg	6.37	--	7.59	--	6.55 J	22.0 J	2.81	445	3.67	10.5	0.217 J
C3-Naphthobenzothiophenes	ug/kg	4.12	NA	25.5	NA	17.6 J	49.0 J	NA	881	NA	16.1	NA
C4-Benzo(b)thiophenes	ug/kg	--	NA	--	NA	--	4.97 J	NA	424	NA	2.36	NA
C4-Decalins	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
C4-Dibenzothiophenes	ug/kg	--	--	9.94	--	14.1 J	55.1 J	1.15	1546	12.5	30.3	--
C4-Fluoranthenes/Pyrenes	ug/kg	4.30	--	8.09	--	9.58 J	25.4 J	--	484	4.76	8.75	--
C4-Naphthobenzothiophenes	ug/kg	2.99	NA	17.4	NA	11.8 J	27.1 J	NA	395	NA	9.44	NA
Carbazole	ug/kg	3.94 J	NA	1.31	NA	0.88 J	1.59 J	NA	--	NA	0.328	--
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
Dibenzofuran	ug/kg	2.34	NA	2.96	NA	1.83 J	4.04 J	NA	14.7	NA	1.52	NA
Dibenzothiophene	ug/kg	1.62	--	1.68	--	0.92 J	2.92 J	--	--	1.28	2.87	0.473
Naphthalene, 2,6-dimethyl-	ug/kg	1.01	NA	2.41	NA	1.10 J	3.19 J	NA	46.8	NA	2.39	NA
Naphthobenzothiophene	ug/kg	5.19	NA	3.70	NA	3.38 J	12.6 J	NA	239	NA	4.96	NA
Retene	ug/kg	1.14	NA	3.38	NA	2.88 J	4.93 J	NA	72.1	NA	2.26	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	112	NA	313	NA	175	409	NA	4919	NA	103	NA
i-C15	mg/kg	--	NA	0.011 J	NA	0.006 J	0.015 J	NA	0.858	NA	--	NA
i-C16	mg/kg	--	NA	0.032	NA	0.007 J	0.026	NA	1.390	NA	--	NA
i-C18	mg/kg	--	NA	0.016	NA	0.009 J	0.022 J	NA	1.133	NA	--	NA
n-C10 (n-Decane)	mg/kg	--	NA	--	NA	--	--	NA	0.048 J	NA	0.004 J	NA
n-C11 (n-Undecane)	mg/kg	0.003 J	NA	0.005 J	NA	0.005 J	0.005 J	NA	0.095	NA	0.002 J	NA
n-C12 (n-Dodecane)	mg/kg	0.011 J	NA	0.028	NA	0.022 J	0.047 J	NA	0.190	NA	0.017 J	NA
n-C13 (n-Tridecane)	mg/kg	0.005 J	NA	0.015 J	NA	0.008 J	0.015 J	NA	0.253	NA	0.012 J	NA
n-C14 (n-Tetradecane)	mg/kg	0.013 J	NA	0.041	NA	0.023 J	0.052 J	NA	0.288	NA	0.025	NA
n-C15 (Pentadecane)	mg/kg	0.009 J	NA	0.032	NA	0.015 J	0.035	NA	0.547	NA	0.021	NA
n-C16 (n-Hexadecane)	mg/kg	0.021	NA	0.052	NA	0.026 J	0.078 J	NA	0.377	NA	0.030	NA
n-C17 (Heptadecane)	mg/kg	0.009	NA	0.032	NA	0.016 J	0.044 J	NA	0.714	NA	0.025	NA
n-C18 (Octadecane)	mg/kg	0.026	NA	0.060	NA	0.031 J	0.067 J	NA	0.513	NA	0.030	NA
n-C19 (Nonadecane)	mg/kg	0.012	NA	0.040	NA	0.015 J	0.036 J	NA	0.566	NA	0.024	NA
n-C20 (Eicosane)	mg/kg	0.005 J	NA	0.024	NA	0.009 J	0.022	NA	0.330	NA	0.018	NA
n-C21 (Heneicosane)	mg/kg	0.055	NA	0.043	NA	0.020 J	0.039 J	NA	0.538	NA	0.016	NA
n-C22 (Docosane)	mg/kg	0.005	NA	0.024	NA	0.007 J	0.014 J	NA	0.153	NA	0.013	NA
n-C23 (Tricosane)	mg/kg	0.013	NA	0.040	NA	0.008 J	0.027	NA	0.498	NA	0.018	NA
n-C24 (Tetracosane)	mg/kg	0.005 J	NA	0.025	NA	0.011	0.015	NA	0.290	NA	0.025	NA
n-C25 (Pentacosane)	mg/kg	0.018	NA	0.052	NA	0.021 J	0.037 J	NA	0.232	NA	0.031	NA
n-C26 (Hexacosane)	mg/kg	0.006 J	NA	0.018	NA	0.007 J	0.016	NA	0.154	NA	0.017	NA
n-C27 (Heptacosane)	mg/kg	0.042	NA	0.121	NA	0.041 J	0.093 J	NA	0.496	NA	0.042	NA
n-C28 (Octacosane)	mg/kg	0.023	NA	0.058	NA	0.018 J	0.035 J	NA	0.627	NA	0.023	NA
n-C29 (Nonacosane)	mg/kg	0.110	NA	0.289	NA	0.076 J	0.174 J	NA	1.199	NA	0.120	NA
n-C30 (n-Triacontane)	mg/kg	0.019	NA	0.041	NA	0.023 J	0.048 J	NA	0.575	NA	0.026	NA
n-C31 (Hentriacontane)	mg/kg	0.138	NA	0.415	NA	0.164	0.273	NA	1.632	NA	0.181	NA
n-C32 (Dotriacontane)	mg/kg	0.017	NA	0.025	NA	0.013 J	0.053 J	NA	0.239	NA	0.013	NA
n-C33	mg/kg	0.433	NA	1.018	NA	0.747	0.767	NA	2.483	NA	0.112	NA
n-C34 (Tetratriacontane)	mg/kg	0.018	NA	0.035	NA	0.028	0.042	NA	0.228	NA	0.007 J	NA
n-C35	mg/kg	0.024	NA	0.047	NA	0.071	0.083	NA	0.316	NA	--	NA
n-C36 (Hexatriacontane)	mg/kg	0.008 J	NA	0.026	NA	0.015 J	0.024	NA	0.185	NA	--	NA
n-C37	mg/kg	0.017 J	NA	0.008 J	NA	0.023	0.026	NA	0.186	NA	--	NA
n-C38 (Octatriacontane)	mg/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
n-C39 (Nonatriacontane)	mg/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
n-C40 (Tetracontane)	mg/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA
n-C9 (Nonane)	mg/kg	--	NA	--	NA	--	--	NA	--	NA	--	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-001	SED-DA-001	SED-DA-002	SED-DA-002	SED-DA-003	SED-DA-003	SED-DA-003	SED-DA-004	SED-DA-004	SED-DA-005	SED-DA-005
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/15/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-001(0.0-0.5)	SED-DA-001(0.5-1.0)	SED-DA-002(0.0-0.5)	SED-DA-002(0.5-1.0)	SED-DA-003(0.0-0.5)	SED-DA-DUP-09-081513FD	SED-DA-003(0.5-1.0)	SED-DA-004(0.0-0.5)	SED-DA-004(0.5-1.0)	SED-DA-005(0.0-0.5)	SED-DA-005(0.5-1.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.006 J	NA	0.033	NA	0.017 J	0.069 J	NA	2.326	NA	0.046	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.009	NA	0.036	NA	0.017 J	0.067 J	NA	1.857	NA	0.039	NA
Total Alkanes	mg/kg	1.1	NA	2.7	NA	1.5 J	2.4 J	NA	21.5	NA	0.9	NA
Total Petroleum Hydrocarbons	mg/kg	21	NA	87	NA	57 J	181 J	NA	2277	NA	59	NA
Total Resolveable Hydrocarbons	mg/kg	6	NA	20	NA	12 J	26 J	NA	162	NA	11	NA
Unresolved Complex Mixture	mg/kg	15	NA	66	NA	45 J	155 J	NA	2115	NA	48	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	2 J	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	--	--	--	8 J	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	--	--	61	19 J	23 J	56	11 J	62 J	23 J	37	--
Benzene	ug/kg	--	--	--	--	--	--	--	2 J	1 J	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	2 J	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	2 J	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	15 J	--	--	--
Trichloroethene	ug/kg	3 J	3 J	3 J	--	3 J	4 J	3 J	3 J	3 J	3 J	3 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	15 J	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-005	SED-DA-006	SED-DA-006	SED-DA-006	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-008	SED-DA-008	SED-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-005(1.0-1.5)	SED-DA-006(0.0-0.5)	SED-DA-006(0.5-1.0)	SED-DA-006(1.0-1.5)	SED-DA-007(0.0-0.5)	SED-DA-DUP-04-080313FD	SED-DA-007(0.5-1.0)	SED-DA-007(1.0-1.5)	SED-DA-008(0.0-0.5)	SED-DA-008(0.5-1.0)	SED-DA-008(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	4.38	4.43	2.63	6.23	8.58	5.81	3.25	17.3	3.59	3.74	4.16
Barium	mg/kg	45.4	38.0	115	72.0	68.5	64.0	40.4	48.2	48.9	39.5	46.8
Cadmium	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	12.8 J	12.4 J	16.6 J	17.4 J	46.7 J	23.3 J	14.5 J	45.1 J	12.9 J	12.3 J	14.8 J
Lead	mg/kg	7.34 J	11.4 J	7.39 J	14.3 J	10.6 J	20.8 J	8.64 J	23.8 J	7.57 J	8.69 J	18.4 J
Mercury	mg/kg	0.0243 J	0.0196 J	0.0181 J	0.0139 J	0.0224 J	0.0196 J	0.0202 J	0.0214 J	0.0242 J	0.0307 J	0.0183 J
Nickel	mg/kg	7.87	8.49	9.38	6.96	11.8	10.6	7.95	11.0	8.16	7.63	8.35
Selenium	mg/kg	--	--	--	2.03 J	1.54 J	1.01 J	--	3.05	1.60 J	1.15 J	1.65 J
Silver	mg/kg	--	--	--	--	--	0.245 J	--	0.429 J	--	--	--
Vanadium	mg/kg	21.1 J	25.7 J	22.3 J	28.5 J	41.1 J	29.1 J	23.9 J	39.0 J	23.3 J	22.7 J	25.2 J
Other												
Black Carbon	%	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
Percent Moisture	%	15.3	22.7	14.0	14.7	24.4	22.3	14.7	13.6	18.5	14.7	13.1
Total Organic Carbon	%	NA	0.14 J	NA	NA	0.26	0.56	NA	NA	0.25	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.419 J	0.123 J	6.94	0.693	1.16 J	7.69 J	0.500 J	2.64	0.176 J	0.266 J	0.348 J
2-Methylnaphthalene	ug/kg	1.12 J	0.264 J	12.9	1.5	2.31 J	13.6 J	1.06 J	5.19	0.383 J	0.736 J	0.917 J
Acenaphthene	ug/kg	--	--	0.649	--	--	1.39 J	--	0.179	0.039 J	0.056 J	--
Acenaphthylene	ug/kg	--	--	0.736	--	0.319 J	1.55 J	--	0.253	0.105	0.026 J	--
Anthracene	ug/kg	--	--	1.55	--	0.459 J	5.70 J	--	--	0.114 J	0.126	--
Benzo(a)Anthracene	ug/kg	--	--	2.37	--	1.35 J	5.32 J	--	0.939	0.378	0.206	--
Benzo(a)Pyrene	ug/kg	--	--	2.50	--	0.678 J	7.46 J	--	0.654	0.331 J	0.068 J	--
Benzo(b)Fluoranthene	ug/kg	--	--	7.81	--	3.97 J	20.7 J	--	2.78	1.49	0.540	--
Benzo(g,h,i)Perylene	ug/kg	--	--	5.99	--	1.32 J	9.93 J	--	1.78	0.418 J	0.183	--
Benzo(j)+(k)Fluoranthene	ug/kg	--	--	2.43	--	0.786 J	6.88 J	--	0.514	0.589	0.243	--
Chrysene/Triphenylene	ug/kg	--	--	13.6	--	4.60 J	19.8 J	--	4.00	1.08	0.485	--
Dibenz(a,h)Anthracene	ug/kg	--	--	1.49	--	0.478 J	2.48 J	--	0.477	0.171	0.059 J	--
Fluoranthene	ug/kg	0.460	0.195 J	7.79	0.438	2.74 J	16.1 J	0.349	2.42	1.28	0.897	0.346
Fluorene	ug/kg	1.54	0.464	6.77	1.63	1.96 J	8.40 J	1.37	3.11	0.461	0.944	1.26
Indeno[1,2,3-cd]pyrene	ug/kg	--	--	2.37	--	0.898 J	5.21 J	--	0.870	0.527	0.220	--
Naphthalene	ug/kg	0.955	--	4.64	1.06	1.41 J	4.83 J	--	2.06	--	--	1.03
Phenanthrene	ug/kg	4.34	1.47	29.8	4.04	8.37 J	51.9 J	3.44	10.3	1.66	3.14	2.97
Pyrene	ug/kg	0.039 J	0.013 J	15.3	0.055 J	3.39 J	20.4 J	0.042 J	3.77	0.736	0.290	0.049 J
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	--	--	8.01	--	2.82 J	16.7 J	--	2.49	0.956	0.368	--
C1-Chrysenes	ug/kg	--	--	38.7	--	8.21 J	60.6 J	--	9.83	--	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	--	--	35.5	--	9.57 J	77.4 J	--	7.76	0.813	0.408 J	--
C1-Fluorenes	ug/kg	0.551	0.143 J	27.2	0.573	5.60 J	40.3 J	0.508	7.82	0.257 J	0.300 J	0.345 J
C1-Phenanthrenes/Anthracenes	ug/kg	--	--	85.2	--	29.7 J	168 J	--	23.2	--	--	--
C2-Chrysenes	ug/kg	--	--	49.5	--	12.1 J	68.5 J	--	13.8	--	--	--
C2-Fluorenes	ug/kg	--	--	84.6	--	19.5 J	110 J	--	21.4	--	--	--
C2-Naphthalenes	ug/kg	1.13	0.498 J	42.2	2.09	6.15 J	53.1 J	1.55	13.4	0.771	0.805	0.570 J
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	152	--	58.0 J	318 J	--	45.3	--	--	--
C3-Chrysenes	ug/kg	--	--	34.3	--	7.87 J	49.9 J	--	9.96	--	--	--
C3-Fluorenes	ug/kg	--	--	95.6	--	29.8 J	151 J	--	26.7	--	--	--
C3-Naphthalenes	ug/kg	0.879	--	92.7	0.885	16.9 J	124 J	1.05	21.2	1.04	0.969	0.601 J
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	173	--	66.1 J	350 J	--	42.1	--	--	--
C4-Chrysenes	ug/kg	--	--	17.2	--	3.76 J	23.0 J	--	5.00	--	--	--
C4-Naphthalenes	ug/kg	--	--	113	--	20.9 J	215 J	--	23.7	--	--	--
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	116	--	46.9 J	253 J	--	29.5	--	--	--
Perylene	ug/kg	R	R	0.903 J	R	0.151 J	2.66 J	R	--	1.34 J	R	R
Phenanthrene, 2-methyl-	ug/kg	NA	--	NA	NA	7.88 J	46.3 J	NA	NA	--	NA	NA
1,1-Biphenyl	ug/kg	NA	--	NA	NA	--	3.02 J	NA	NA	--	NA	NA
18a-Oleanane	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	0.025 J	NA	NA	9.19 J	48.4 J	NA	NA	0.053 J	NA	NA
1-Methylfluorene	ug/kg	NA	0.109 J	NA	NA	5.07 J	30.3 J	NA	NA	0.181 J	NA	NA
1-Methylphenanthrene	ug/kg	NA	--	NA	NA	7.70 J	36.9 J	NA	NA	--	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	--	NA	NA	3.15 J	28.8 J	NA	NA	0.100 J	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	0.059 J	NA	NA	9.89 J	68.0 J	NA	NA	0.158	NA	NA
2-Methylanthracene	ug/kg	NA	--	NA	NA	3.18 J	7.81 J	NA	NA	--	NA	NA
2-Methylfluoranthene	ug/kg	NA	--	NA	NA	1.12 J	5.83 J	NA	NA	0.084 J	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	--	NA	NA	3.15 J	22.1 J	NA	NA	--	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	--	NA	NA	6.69 J	40.3 J	NA	NA	--	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	0.100	NA	NA	14.6 J	90.3 J	NA	NA	0.109	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	--	NA	NA	9.06 J	64.1 J	NA	NA	--	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
Benzo(b)fluorene	ug/kg	NA	--	NA	NA	0.880 J	7.17 J	NA	NA	0.098 J	NA	NA
Benzothiophene	ug/kg	NA	--	NA	NA	0.111 J	0.494 J	NA	NA	--	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA	0.820 J	5.24 J	NA	NA	--	NA	NA
C1-Decalins	ug/kg	NA	--	NA	NA	--	3.43 J	NA	NA	--	NA	NA

Location		SED-DA-005	SED-DA-006	SED-DA-006	SED-DA-006	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-008	SED-DA-008	SED-DA-008
Depths (ft)		1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013
Sample ID		SED-DA-005(1.0-1.5)	SED-DA-006(0.0-0.5)	SED-DA-006(0.5-1.0)	SED-DA-006(1.0-1.5)	SED-DA-007(0.0-0.5)	SED-DA-DUP-04-080313FD	SED-DA-007(0.5-1.0)	SED-DA-007(1.0-1.5)	SED-DA-008(0.0-0.5)	SED-DA-008(0.5-1.0)	SED-DA-008(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
C1-Dibenzothiophenes	ug/kg	0.297	0.145	95.8	0.464	26.5 J	163 J	0.414	23.8	0.252	0.369	0.359
C1-Naphthalenes	ug/kg	1.00 J	0.245 J	12.9	1.42	2.19 J	13.4 J	1.02 J	5.08	0.354 J	0.654 J	0.824 J
C1-Naphthobenzothiophenes	ug/kg	NA	--	NA	NA	22.5 J	103.4 J	NA	NA	0.850	NA	NA
C20-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C21-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
C29-Hopane	ug/kg	NA	--	NA	NA	27.6 J	229 J	NA	NA	4.45	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA	1.76 J	15.7 J	NA	NA	--	NA	NA
C2-Decalins	ug/kg	NA	--	NA	NA	--	5.36 J	NA	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	0.339	--	183	0.451	48.7 J	335 J	0.422	45.8	0.427	0.610	0.411
C2-Fluoranthenes/Pyrenes	ug/kg	--	--	53.3	--	14.1 J	112 J	--	12.1	1.58	--	--
C2-Naphthobenzothiophenes	ug/kg	NA	--	NA	NA	28.4 J	167.5 J	NA	NA	1.49	NA	NA
C30-Hopane	ug/kg	NA	--	NA	NA	52.2 J	274 J	NA	NA	5.33	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA	--	30.0 J	NA	NA	--	NA	NA
C3-Decalins	ug/kg	NA	--	NA	NA	--	16.1 J	NA	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	0.192 J	--	245	--	70.9 J	430 J	--	57.3	0.882	--	--
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	32.0	--	12.3 J	80.9 J	--	6.49	0.777	--	--
C3-Naphthobenzothiophenes	ug/kg	NA	--	NA	NA	23.2 J	113.9 J	NA	NA	1.32	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA	--	64.1 J	NA	NA	--	NA	NA
C4-Decalins	ug/kg	NA	--	NA	NA	--	42.2 J	NA	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	--	--	104	--	54.5 J	324 J	--	35.1	1.21	--	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	35.4	--	9.11 J	78.6 J	--	7.01	--	--	--
C4-Naphthobenzothiophenes	ug/kg	NA	--	NA	NA	12.1 J	42.7 J	NA	NA	--	NA	NA
Carbazole	ug/kg	--	--	--	--	--	--	--	--	--	--	--
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	--	NA	NA	--	1.89 J	NA	NA	--	NA	NA
Dibenzofuran	ug/kg	NA	0.435	NA	NA	1.19 J	4.59 J	NA	NA	0.407	NA	NA
Dibenzothiophene	ug/kg	0.278	0.155	20.9	0.397	6.26 J	32.0 J	0.316	5.23	0.199	0.309	0.299
Naphthalene, 2,6-dimethyl-	ug/kg	NA	0.162 J	NA	NA	2.84 J	22.2 J	NA	NA	0.337	NA	NA
Naphthobenzothiophene	ug/kg	NA	--	NA	NA	10.2 J	35.0 J	NA	NA	0.433	NA	NA
Retene	ug/kg	NA	--	NA	NA	4.13 J	21.8 J	NA	NA	--	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	28 J	NA	NA	121 J	746 J	NA	NA	49 J	NA	NA
i-C15	mg/kg	NA	--	NA	NA	0.009 J	0.113 J	NA	NA	--	NA	NA
i-C16	mg/kg	NA	--	NA	NA	0.009 J	0.075 J	NA	NA	--	NA	NA
i-C18	mg/kg	NA	--	NA	NA	0.024 J	0.253 J	NA	NA	--	NA	NA
n-C10 (n-Decane)	mg/kg	NA	--	NA	NA	0.003 J	--	NA	NA	--	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	--	NA	NA	0.002 J	0.007 J	NA	NA	--	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	0.009 J	NA	NA	0.012 J	0.021	NA	NA	0.009 J	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	0.004 J	NA	NA	0.006 J	0.029 J	NA	NA	0.002 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	0.007 J	NA	NA	0.017 J	0.090 J	NA	NA	0.004 J	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	0.005 J	NA	NA	0.016 J	0.100 J	NA	NA	0.020	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	0.010	NA	NA	0.022 J	0.152 J	NA	NA	0.010	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	0.004	NA	NA	0.025 J	0.207 J	NA	NA	0.008	NA	NA
n-C18 (Octadecane)	mg/kg	NA	0.008	NA	NA	0.041 J	0.228 J	NA	NA	0.011	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	0.004 J	NA	NA	0.039 J	0.183 J	NA	NA	0.010	NA	NA
n-C20 (Eicosane)	mg/kg	NA	0.003 J	NA	NA	0.021 J	0.139 J	NA	NA	0.003 J	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	0.004 J	NA	NA	0.022 J	0.160 J	NA	NA	0.010	NA	NA
n-C22 (Docosane)	mg/kg	NA	0.005	NA	NA	0.021 J	0.123 J	NA	NA	0.006	NA	NA
n-C23 (Tricosane)	mg/kg	NA	0.008 J	NA	NA	0.027 J	0.140 J	NA	NA	0.010	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	0.007	NA	NA	0.028 J	0.146 J	NA	NA	0.010	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	0.013	NA	NA	0.035 J	0.160 J	NA	NA	0.016	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	0.007 J	NA	NA	0.018 J	0.098 J	NA	NA	0.010	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	0.022	NA	NA	0.052 J	0.229 J	NA	NA	0.047	NA	NA
n-C28 (Octacosane)	mg/kg	NA	0.006 J	NA	NA	0.021 J	0.121 J	NA	NA	0.011 J	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	0.026	NA	NA	0.117 J	0.655 J	NA	NA	0.069	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	0.005 J	NA	NA	0.027 J	0.193 J	NA	NA	0.009 J	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	0.013 J	NA	NA	0.115 J	0.844 J	NA	NA	0.043	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	0.002 J	NA	NA	0.014 J	0.064 J	NA	NA	0.008 J	NA	NA
n-C33	mg/kg	NA	--	NA	NA	0.079 J	1.122 J	NA	NA	0.034	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	--	NA	NA	0.007 J	0.068 J	NA	NA	0.003 J	NA	NA
n-C35	mg/kg	NA	--	NA	NA	--	0.311 J	NA	NA	--	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	--	NA	NA	--	0.068 J	NA	NA	--	NA	NA
n-C37	mg/kg	NA	--	NA	NA	--	0.141 J	NA	NA	--	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA
n-C9 (Nonane)	mg/kg	NA	--	NA	NA	--	--	NA	NA	--	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-005	SED-DA-006	SED-DA-006	SED-DA-006	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-007	SED-DA-008	SED-DA-008	SED-DA-008
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013
	Sample ID	SED-DA-005(1.0-1.5)	SED-DA-006(0.0-0.5)	SED-DA-006(0.5-1.0)	SED-DA-006(1.0-1.5)	SED-DA-007(0.0-0.5)	SED-DA-DUP-04-080313FD	SED-DA-007(0.5-1.0)	SED-DA-007(1.0-1.5)	SED-DA-008(0.0-0.5)	SED-DA-008(0.5-1.0)	SED-DA-008(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	0.003 J	NA	NA	0.069 J	0.483 J	NA	NA	0.003 J	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	0.003 J	NA	NA	0.052 J	0.417 J	NA	NA	0.005	NA	NA
Total Alkanes	mg/kg	NA	0.2	NA	NA	1.0 J	7.1 J	NA	NA	0.4	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	10	NA	NA	69 J	293 J	NA	NA	29	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	3	NA	NA	26 J	81 J	NA	NA	14	NA	NA
Unresolved Complex Mixture	mg/kg	NA	7	NA	NA	43 J	212 J	NA	NA	15	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	1 J	--	--	--
2-Butanone (MEK)	ug/kg	--	9 J	--	--	5 J	7 J	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	11 J	71	12 J	--	78	96	--	--	31	18 J	15 J
Benzene	ug/kg	--	--	--	--	--	--	4 J	1 J	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	1 J	2 J	7	4 J	3 J	2 J	3 J	2 J	2 J	2 J	3 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	2 J	1 J	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-009	SED-DA-009	SED-DA-009	SED-DA-010	SED-DA-010	SED-DA-010	SED-DA-011	SED-DA-011	SED-DA-011	SED-DA-012	SED-DA-012
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/2/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013
	Sample ID	SED-DA-009(0.0-0.5)	SED-DA-009(0.5-1.0)	SED-DA-009(1.0-1.5)	SED-DA-010(0.0-0.5)	SED-DA-010(0.5-1.0)	SED-DA-010(1.0-1.5)	SED-DA-011(0.0-0.5)	SED-DA-011(0.5-1.0)	SED-DA-011(1.0-1.5)	SED-DA-012(0.0-0.5)	SED-DA-012(0.5-1.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	4.63	3.11	3.04	14.8	24.7	26.8	2.74	1.34 J	1.79 J	2.34	3.22
Barium	mg/kg	65.1	62.1	36.8	64.6	86.7	70.5	41.3	36.1	33.5	32.5	28.9
Cadmium	mg/kg	0.152 J	--	0.0984 J	--	--	--	--	--	--	--	--
Chromium	mg/kg	13.3	11.5	11.1	31.4 J	65.0 J	42.8 J	12.8 J	9.70 J	10.2 J	9.34 J	11.0 J
Lead	mg/kg	12.0	10.1	9.14	14.8 J	25.1 J	25.8 J	8.04 J	7.32 J	6.41 J	7.29	9.67
Mercury	mg/kg	0.0366 J	0.0333 J	0.0208 J	0.0298 J	0.0353 J	0.0356 J	0.0250 J	0.0180 J	0.0186 J	0.0154 J	--
Nickel	mg/kg	9.39	8.09	6.62	17.3	27.3	21.2	5.44	5.10	4.61	5.03	4.96
Selenium	mg/kg	--	--	1.01 J	3.39	6.11	5.86	--	--	--	--	--
Silver	mg/kg	--	--	--	0.470 J	28.7	34.3	--	--	--	--	--
Vanadium	mg/kg	21.6	20.2	18.8	29.1 J	45.2 J	39.3 J	16.5 J	12.6 J	12.6 J	14.3	16.2
Other												
Black Carbon	%	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
Percent Moisture	%	16.5	15.9	16.0	16.9	18.2	13.8	26.2	15.7	14.3	17.8	14.9
Total Organic Carbon	%	0.31	NA	NA	0.19	NA	NA	0.17	NA	NA	0.18	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.368 J	1.02	0.684	0.882	1.12	1.11	0.262 J	0.470 J	0.368 J	0.559	0.536 J
2-Methylnaphthalene	ug/kg	0.772 J	2.01	1.44	1.87	2.00	2.18	0.496 J	0.844 J	0.706 J	1.12 J	1.49
Acenaphthene	ug/kg	--	0.186	0.15	0.175	0.108	0.115	--	0.107	0.082 J	0.040 J	--
Acenaphthylene	ug/kg	0.155	0.230	0.07	0.403	0.151	0.124	--	0.067	--	0.053	--
Anthracene	ug/kg	--	--	--	0.689	0.144	--	--	0.081 J	0.045 J	--	--
Benzo(a)Anthracene	ug/kg	0.326	--	--	3.79	0.209	0.077 J	--	0.157 J	0.065 J	0.217	0.082 J
Benzo(a)Pyrene	ug/kg	0.139	--	--	5.88	0.189	0.023 J	--	0.116	--	0.079 J	--
Benzo(b)Fluoranthene	ug/kg	1.29	0.26	--	13.6	0.659	0.268	--	0.273	--	0.745	--
Benzo(g,h,i)Perylene	ug/kg	0.325	0.12	--	5.78	0.344	0.097	--	0.140	0.059 J	0.278 J	--
Benzo(j)+(k)Fluoranthene	ug/kg	0.417	0.06 J	--	5.35	0.186	0.052 J	--	0.098 J	--	0.298	--
Chrysene/Triphenylene	ug/kg	1.05	--	--	9.65	0.450	0.162	--	0.165	0.034 J	0.550	0.085 J
Dibenz(a,h)Anthracene	ug/kg	0.124	--	--	1.49	0.101	0.037 J	--	0.040 J	0.041 J	0.084	--
Fluoranthene	ug/kg	1.06	1.21	0.981	11.5	1.00	0.690	0.531	0.624	--	1.24	0.688
Fluorene	ug/kg	0.549	4.01	3.00	1.62	2.06	2.04	1.16	1.41	1.29	1.26	2.09 J
Indeno[1,2,3-cd]pyrene	ug/kg	0.366	--	--	4.67	0.302	0.098	--	0.111	0.041 J	0.290	--
Naphthalene	ug/kg	--	1.74	--	1.55	1.70	1.84	--	0.769	0.808	0.903	1.62
Phenanthrene	ug/kg	2.23	9.72	7.82	7.16	4.40	4.76	3.03	3.35	3.33	3.69	5.23
Pyrene	ug/kg	0.745	0.225	--	9.23	0.732	--	0.236	--	--	0.668	0.052 J
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	0.631	--	--	8.02	0.352	0.123 J	--	0.170 J	--	0.421	--
C1-Chrysenes	ug/kg	--	--	--	5.99	0.380	--	--	--	--	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	0.603	0.335 J	--	7.14	0.664	0.256 J	--	0.243 J	0.086 J	0.235 J	--
C1-Fluorenes	ug/kg	--	1.45	0.938	1.16	0.719	0.772	0.523	0.510	0.467	0.512	0.523 J
C1-Phenanthrenes/Anthracenes	ug/kg	--	4.19	3.70	8.38	--	--	--	--	--	--	--
C2-Chrysenes	ug/kg	--	--	--	5.98	--	--	--	--	--	--	--
C2-Fluorenes	ug/kg	--	--	--	--	--	--	--	--	--	--	--
C2-Naphthalenes	ug/kg	1.46	3.88	2.25	3.39	3.67	3.15	0.774	2.03	1.35	1.91	1.22 J
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	--	16.8	--	--	--	--	--	--	--
C3-Chrysenes	ug/kg	--	--	--	4.24	--	--	--	--	--	--	--
C3-Fluorenes	ug/kg	--	--	--	--	--	--	--	--	--	--	--
C3-Naphthalenes	ug/kg	1.50	3.45	1.10	6.45	4.30	1.99	2.67	4.36	3.84	1.68	--
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	--	17.1	--	--	--	--	--	--	--
C4-Chrysenes	ug/kg	--	--	--	2.86	--	--	--	--	--	--	--
C4-Naphthalenes	ug/kg	--	3.98	--	6.27	2.47	1.48	--	1.74	--	1.50	--
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	13.9	--	--	--	--	--	--	--
Perylene	ug/kg	--	R	R	1.65	0.066 J	0.090 J	0.22 J	0.273 J	0.158 J	--	0.063 J
Phenanthrene, 2-methyl-	ug/kg	--	NA	NA	2.07 J	NA	NA	--	NA	NA	--	NA
1,1-Biphenyl	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
18a-Oleanane	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	0.097	NA	NA	1.29	NA	NA	--	NA	NA	0.142	NA
1-Methylfluorene	ug/kg	--	NA	NA	0.312	NA	NA	0.218	NA	NA	0.292	NA
1-Methylphenanthrene	ug/kg	--	NA	NA	1.54	NA	NA	--	NA	NA	--	NA
2,3,5-Trimethylnaphthalene	ug/kg	0.206	NA	NA	0.773	NA	NA	0.174	NA	NA	0.187	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	0.194	NA	NA	1.62	NA	NA	--	NA	NA	0.112	NA
2-Methylanthracene	ug/kg	--	NA	NA	2.87	NA	NA	--	NA	NA	--	NA
2-Methylfluoranthene	ug/kg	0.084 J	NA	NA	0.791	NA	NA	--	NA	NA	0.054 J	NA
3,6-Dimethylphenanthrene	ug/kg	--	NA	NA	0.730	NA	NA	--	NA	NA	--	NA
3-Methylphenanthrene (3MP)	ug/kg	--	NA	NA	1.53	NA	NA	--	NA	NA	--	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	0.282	NA	NA	2.36	NA	NA	--	NA	NA	0.212	NA
9/4-Methylphenanthrene (9MP)	ug/kg	--	NA	NA	1.72	NA	NA	--	NA	NA	--	NA
Benzo(a)Fluoranthene	ug/kg	--	NA	NA	1.06	NA	NA	--	NA	NA	--	NA
Benzo(b)fluorene	ug/kg	0.069 J	NA	NA	1.00	NA	NA	--	NA	NA	0.044 J	NA
Benzothiophene	ug/kg	0.142	NA	NA	0.076 J	NA	NA	--	NA	NA	--	NA
C1-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C1-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-009	SED-DA-009	SED-DA-009	SED-DA-010	SED-DA-010	SED-DA-010	SED-DA-011	SED-DA-011	SED-DA-011	SED-DA-012	SED-DA-012
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/2/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013
Sample ID		SED-DA-009(0.0-0.5)	SED-DA-009(0.5-1.0)	SED-DA-009(1.0-1.5)	SED-DA-010(0.0-0.5)	SED-DA-010(0.5-1.0)	SED-DA-010(1.0-1.5)	SED-DA-011(0.0-0.5)	SED-DA-011(0.5-1.0)	SED-DA-011(1.0-1.5)	SED-DA-012(0.0-0.5)	SED-DA-012(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
C1-Dibenzothiophenes	ug/kg	0.451	0.800	0.623	4.15	0.358	0.351	--	0.111	0.091	0.401	0.369
C1-Naphthalenes	ug/kg	0.721 J	1.64	1.15	1.74	1.99	2.11	0.409 J	0.841 J	0.688 J	1.09	1.25
C1-Naphthobenzothiophenes	ug/kg	--	NA	NA	8.01	NA	NA	--	NA	NA	0.337	NA
C20-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C21-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C26(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C27(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C28(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C28(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C29-Hopane	ug/kg	--	NA	NA	22.1	NA	NA	--	NA	NA	--	NA
C2-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C2-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C2-Dibenzothiophenes	ug/kg	0.515	0.883	0.531	10.8	0.490	0.413	--	0.148 J	0.126 J	0.433	0.322
C2-Fluoranthenes/Pyrenes	ug/kg	1.419	--	--	12.2	0.662	--	--	--	--	0.398 J	--
C2-Naphthobenzothiophenes	ug/kg	--	NA	NA	12.8	NA	NA	--	NA	NA	0.452	NA
C30-Hopane	ug/kg	--	NA	NA	26.4	NA	NA	--	NA	NA	--	NA
C3-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C3-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C3-Dibenzothiophenes	ug/kg	0.447	1.03	0.322	17.3	0.593	0.325	--	0.156 J	0.092 J	0.292	--
C3-Fluoranthenes/Pyrenes	ug/kg	0.566	--	--	8.32	0.286 J	--	--	--	--	0.140 J	--
C3-Naphthobenzothiophenes	ug/kg	--	NA	NA	10.1	NA	NA	--	NA	NA	0.429	NA
C4-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C4-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
C4-Dibenzothiophenes	ug/kg	--	--	--	14.0	0.588	0.154 J	--	--	--	--	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	6.51	--	--	--	--	--	--	--
C4-Naphthobenzothiophenes	ug/kg	--	NA	NA	6.60	NA	NA	--	NA	NA	--	NA
Carbazole	ug/kg	0.265	NA	NA	1.15	NA	NA	0.073 J	NA	NA	0.047 J	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
Dibenzofuran	ug/kg	0.625	NA	NA	1.31	NA	NA	1.01	NA	NA	0.958	NA
Dibenzothiophene	ug/kg	0.360	0.909	0.651	1.17	0.501	0.479	0.162	0.182	0.157	0.419	0.406
Naphthalene, 2,6-dimethyl-	ug/kg	0.603	NA	NA	1.72	NA	NA	0.359	NA	NA	0.955	NA
Naphthobenzothiophene	ug/kg	0.366	NA	NA	4.34	NA	NA	--	NA	NA	0.353	NA
Retene	ug/kg	--	NA	NA	0.989	NA	NA	--	NA	NA	--	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	64 J	NA	NA	75 J	NA	NA	30 J	NA	NA	50 J	NA
i-C15	mg/kg	--	NA	NA	--	NA	NA	0.006 J	NA	NA	0.007 J	NA
i-C16	mg/kg	--	NA	NA	--	NA	NA	0.019	NA	NA	0.002 J	NA
i-C18	mg/kg	--	NA	NA	--	NA	NA	0.006	NA	NA	0.006	NA
n-C10 (n-Decane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
n-C11 (n-Undecane)	mg/kg	--	NA	NA	0.004 J	NA	NA	0.004 J	NA	NA	--	NA
n-C12 (n-Dodecane)	mg/kg	0.007 J	NA	NA	0.018 J	NA	NA	0.012 J	NA	NA	0.018 J	NA
n-C13 (n-Tridecane)	mg/kg	0.002 J	NA	NA	0.008 J	NA	NA	0.007 J	NA	NA	0.009 J	NA
n-C14 (n-Tetradecane)	mg/kg	0.004 J	NA	NA	0.015	NA	NA	0.013	NA	NA	0.017	NA
n-C15 (Pentadecane)	mg/kg	0.003 J	NA	NA	0.012 J	NA	NA	0.003 J	NA	NA	0.008 J	NA
n-C16 (n-Hexadecane)	mg/kg	0.008	NA	NA	0.020	NA	NA	0.017	NA	NA	0.023	NA
n-C17 (Heptadecane)	mg/kg	0.005	NA	NA	0.018	NA	NA	0.008	NA	NA	0.062	NA
n-C18 (Octadecane)	mg/kg	0.016	NA	NA	0.029	NA	NA	0.012	NA	NA	0.014	NA
n-C19 (Nonadecane)	mg/kg	0.010	NA	NA	0.019	NA	NA	0.006	NA	NA	0.010	NA
n-C20 (Eicosane)	mg/kg	0.002 J	NA	NA	0.006 J	NA	NA	0.003 J	NA	NA	0.003 J	NA
n-C21 (Heneicosane)	mg/kg	0.010	NA	NA	0.018	NA	NA	0.003 J	NA	NA	0.012	NA
n-C22 (Docosane)	mg/kg	0.005	NA	NA	0.007	NA	NA	0.005	NA	NA	0.004	NA
n-C23 (Tricosane)	mg/kg	0.011	NA	NA	0.019	NA	NA	0.007 J	NA	NA	0.007 J	NA
n-C24 (Tetracosane)	mg/kg	0.009	NA	NA	0.012	NA	NA	0.006	NA	NA	0.006	NA
n-C25 (Pentacosane)	mg/kg	0.017	NA	NA	0.028	NA	NA	0.008	NA	NA	0.009	NA
n-C26 (Hexacosane)	mg/kg	0.010	NA	NA	0.012	NA	NA	0.010	NA	NA	0.005 J	NA
n-C27 (Heptacosane)	mg/kg	0.026	NA	NA	0.058	NA	NA	0.012	NA	NA	0.015	NA
n-C28 (Octacosane)	mg/kg	0.012	NA	NA	0.025	NA	NA	0.022	NA	NA	0.005 J	NA
n-C29 (Nonacosane)	mg/kg	0.091	NA	NA	0.203	NA	NA	0.028	NA	NA	0.021 J	NA
n-C30 (n-Triacontane)	mg/kg	0.012 J	NA	NA	0.015	NA	NA	0.021	NA	NA	0.004 J	NA
n-C31 (Hentriacontane)	mg/kg	0.050	NA	NA	0.179	NA	NA	0.014 J	NA	NA	0.019	NA
n-C32 (Dotriacontane)	mg/kg	0.006 J	NA	NA	0.018	NA	NA	0.013	NA	NA	0.003 J	NA
n-C33	mg/kg	0.048	NA	NA	0.176	NA	NA	0.011 J	NA	NA	0.015 J	NA
n-C34 (Tetratriacontane)	mg/kg	0.003 J	NA	NA	0.005 J	NA	NA	0.010 J	NA	NA	0.002 J	NA
n-C35	mg/kg	--	NA	NA	0.042	NA	NA	0.009 J	NA	NA	0.005 J	NA
n-C36 (Hexatriacontane)	mg/kg	--	NA	NA	--	NA	NA	0.007 J	NA	NA	--	NA
n-C37	mg/kg	--	NA	NA	--	NA	NA	0.006 J	NA	NA	--	NA
n-C38 (Octatriacontane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
n-C39 (Nonatriacontane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
n-C40 (Tetracontane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA
n-C9 (Nonane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-009	SED-DA-009	SED-DA-009	SED-DA-010	SED-DA-010	SED-DA-010	SED-DA-011	SED-DA-011	SED-DA-011	SED-DA-012	SED-DA-012
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/2/2013	8/2/2013	8/2/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/3/2013	8/4/2013	8/4/2013
Sample ID		SED-DA-009(0.0-0.5)	SED-DA-009(0.5-1.0)	SED-DA-009(1.0-1.5)	SED-DA-010(0.0-0.5)	SED-DA-010(0.5-1.0)	SED-DA-010(1.0-1.5)	SED-DA-011(0.0-0.5)	SED-DA-011(0.5-1.0)	SED-DA-011(1.0-1.5)	SED-DA-012(0.0-0.5)	SED-DA-012(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.003 J	NA	NA	0.021	NA	NA	0.003 J	NA	NA	0.004 J	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.005	NA	NA	0.017	NA	NA	0.006	NA	NA	0.001 J	NA
Total Alkanes	mg/kg	0.4	NA	NA	1.0	NA	NA	0.3	NA	NA	0.3	NA
Total Petroleum Hydrocarbons	mg/kg	51	NA	NA	54	NA	NA	19	NA	NA	12.5	NA
Total Resolveable Hydrocarbons	mg/kg	14	NA	NA	8	NA	NA	1.9	NA	NA	3.02	NA
Unresolved Complex Mixture	mg/kg	37	NA	NA	45	NA	NA	17	NA	NA	9.51	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	--	--	--	--	--	4 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	23	24	8 J	29	--	16 J	11 J	--	--	71	37
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	5 J	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	3 J	--	2 J	2 J	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-012	SED-DA-013	SED-DA-013	SED-DA-013
Depths (ft)		1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/4/2013	8/4/2013	8/4/2013	8/4/2013
Sample ID		SED-DA-012(1.0-1.5)	SED-DA-013(0.0-0.5)	SED-DA-013(0.5-1.0)	SED-DA-013(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II
Chemical	**Units**				
Metals					
Arsenic	mg/kg	2.78	2.18 J	4.51	3.30
Barium	mg/kg	29.8	45.1	43.4	51.3
Cadmium	mg/kg	--	--	--	--
Chromium	mg/kg	10.3 J	9.14 J	10.2 J	12.1 J
Lead	mg/kg	6.75	8.55	7.73	7.95
Mercury	mg/kg	0.0156 J	0.0119 J	0.0124 J	--
Nickel	mg/kg	5.18	4.96	5.47	7.12
Selenium	mg/kg	--	--	--	--
Silver	mg/kg	--	--	--	--
Vanadium	mg/kg	16.2	12.5	15.9	18.7
Other					
Black Carbon	%	NA	--	NA	NA
Percent Moisture	%	15.3	16.7	15.5	16.2
Total Organic Carbon	%	NA	0.21	NA	NA
Priority PAHs					
1-Methylnaphthalene	ug/kg	0.848	0.669	0.828	0.83
2-Methylnaphthalene	ug/kg	2.12	1.20 J	1.46	1.93
Acenaphthene	ug/kg	--	--	0.063 J	0.25
Acenaphthylene	ug/kg	--	--	0.072	0.05
Anthracene	ug/kg	--	0.048 J	--	--
Benzo(a)Anthracene	ug/kg	0.089 J	0.084 J	0.103 J	0.063 J
Benzo(a)Pyrene	ug/kg	--	0.049 J	--	--
Benzo(b)Fluoranthene	ug/kg	--	0.258	--	--
Benzo(g,h,i)Perylene	ug/kg	--	0.097	--	--
Benzo(j)+(k)Fluoranthene	ug/kg	--	0.081 J	--	--
Chrysene/Triphenylene	ug/kg	0.067 J	0.172	0.073 J	0.032 J
Dibenz(a,h)Anthracene	ug/kg	--	0.034 J	--	--
Fluoranthene	ug/kg	0.916	0.493	0.868	1.85
Fluorene	ug/kg	2.58	1.24	2.54	5.57
Indeno[1,2,3-cd]pyrene	ug/kg	--	0.087	--	--
Naphthalene	ug/kg	1.61	1.32	1.17	1.23
Phenanthrene	ug/kg	7.29	2.96	6.42	14.9
Pyrene	ug/kg	0.076 J	0.492	0.152	0.048 J
Forensic PAHs					
Benzo(e)Pyrene	ug/kg	--	0.150 J	--	--
C1-Chrysenes	ug/kg	--	--	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	--	0.360 J	--	--
C1-Fluorenes	ug/kg	1.01	0.531	0.887	1.80
C1-Phenanthrenes/Anthracenes	ug/kg	4.16	--	--	5.23
C2-Chrysenes	ug/kg	--	--	--	--
C2-Fluorenes	ug/kg	--	--	--	--
C2-Naphthalenes	ug/kg	2.44	2.72	3.67	3.39
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	--	--
C3-Chrysenes	ug/kg	--	--	--	--
C3-Fluorenes	ug/kg	--	--	--	--
C3-Naphthalenes	ug/kg	1.73	2.60	4.47	2.04
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	--	--
C4-Chrysenes	ug/kg	--	--	--	--
C4-Naphthalenes	ug/kg	--	--	--	--
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	--
Perylene	ug/kg	R	1.03 J	0.235 J	R
Phenanthrene, 2-methyl-	ug/kg	NA	--	NA	NA
1,1-Biphenyl	ug/kg	NA	--	NA	NA
18a-Oleanane	ug/kg	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	0.158	NA	NA
1-Methylfluorene	ug/kg	NA	0.328	NA	NA
1-Methylphenanthrene	ug/kg	NA	--	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	0.323	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	0.144	NA	NA
2-Methylanthracene	ug/kg	NA	--	NA	NA
2-Methylfluoranthene	ug/kg	NA	0.032 J	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	--	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	--	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	0.202	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	--	NA	NA
Benzo(a)Fluoranthene	ug/kg	NA	--	NA	NA
Benzo(b)fluorene	ug/kg	NA	0.029 J	NA	NA
Benzothiophene	ug/kg	NA	--	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA
C1-Decalins	ug/kg	NA	--	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-012	SED-DA-013	SED-DA-013	SED-DA-013
Depths (ft)		1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/4/2013	8/4/2013	8/4/2013	8/4/2013
Sample ID		SED-DA-012(1.0-1.5)	SED-DA-013(0.0-0.5)	SED-DA-013(0.5-1.0)	SED-DA-013(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II
Chemical	**Units**				
C1-Dibenzothiophenes	ug/kg	0.575	0.434	0.434	0.507
C1-Naphthalenes	ug/kg	1.83	1.21	1.40	1.70
C1-Naphthobenzothiophenes	ug/kg	NA	0.380	NA	NA
C20-TAS	ug/kg	NA	--	NA	NA
C21-TAS	ug/kg	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	--	NA	NA
C26(20S)-TAS	ug/kg	NA	--	NA	NA
C27(20R)-TAS	ug/kg	NA	--	NA	NA
C28(20R)-TAS	ug/kg	NA	--	NA	NA
C28(20S)-TAS	ug/kg	NA	--	NA	NA
C29-Hopane	ug/kg	NA	--	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA
C2-Decalins	ug/kg	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	0.466	0.445	0.372	0.595
C2-Fluoranthenes/Pyrenes	ug/kg	--	--	--	--
C2-Naphthobenzothiophenes	ug/kg	NA	0.647	NA	NA
C30-Hopane	ug/kg	NA	--	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA
C3-Decalins	ug/kg	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	0.316	0.501	0.342	--
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	--	--
C3-Naphthobenzothiophenes	ug/kg	NA	0.477	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	--	NA	NA
C4-Decalins	ug/kg	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	--	--	--	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	--
C4-Naphthobenzothiophenes	ug/kg	NA	--	NA	NA
Carbazole	ug/kg	NA	0.044 J	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	--	NA	NA
Dibenzofuran	ug/kg	NA	0.818	NA	NA
Dibenzothiophene	ug/kg	0.589	0.341	0.469	0.621
Naphthalene, 2,6-dimethyl-	ug/kg	NA	1.14	NA	NA
Naphthobenzothiophene	ug/kg	NA	0.368	NA	NA
Retene	ug/kg	NA	--	NA	NA
TPH					
EOM (Extracted Organic Material)	mg/kg	NA	32 J	NA	NA
i-C15	mg/kg	NA	--	NA	NA
i-C16	mg/kg	NA	--	NA	NA
i-C18	mg/kg	NA	--	NA	NA
n-C10 (n-Decane)	mg/kg	NA	--	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	--	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	0.013 J	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	0.007 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	0.011 J	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	0.004 J	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	0.021	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	0.005	NA	NA
n-C18 (Octadecane)	mg/kg	NA	0.012	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	0.006	NA	NA
n-C20 (Eicosane)	mg/kg	NA	0.002 J	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	0.004 J	NA	NA
n-C22 (Docosane)	mg/kg	NA	0.004	NA	NA
n-C23 (Tricosane)	mg/kg	NA	0.005 J	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	0.005 J	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	0.010	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	0.005 J	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	0.012	NA	NA
n-C28 (Octacosane)	mg/kg	NA	0.005 J	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	0.035	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	0.006 J	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	0.021	NA	NA
n-C32 (Dotriacontane)	mg/kg	NA	0.029	NA	NA
n-C33	mg/kg	NA	0.072	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	0.010 J	NA	NA
n-C35	mg/kg	NA	0.031	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	--	NA	NA
n-C37	mg/kg	NA	--	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	--	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	--	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	--	NA	NA
n-C9 (Nonane)	mg/kg	NA	--	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-012	SED-DA-013	SED-DA-013	SED-DA-013
Depths (ft)		1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/4/2013	8/4/2013	8/4/2013	8/4/2013
Sample ID		SED-DA-012(1.0-1.5)	SED-DA-013(0.0-0.5)	SED-DA-013(0.5-1.0)	SED-DA-013(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II
Chemical	**Units**				
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	--	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	--	NA	NA
Total Alkanes	mg/kg	NA	0.3	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	5.10	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	3.24	NA	NA
Unresolved Complex Mixture	mg/kg	NA	1.86	NA	NA
VOCs					
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--
Acetone	ug/kg	29	17 J	--	15 J
Benzene	ug/kg	--	--	--	--
Chloroform	ug/kg	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--
Toluene	ug/kg	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Drainage Ways Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:

% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
ft = feet
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
R = The sample results are rejected
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-014	SED-DA-014	SED-DA-015	SED-DA-015	SED-DA-015	SED-DA-016	SED-DA-016	SED-DA-017	SED-DA-017	SED-DA-018	SED-DA-018
	Depths (ft)	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft
	Sample Date	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/10/2013	8/10/2013
	Sample ID	SED-DA-014(0.0-0.5)	SED-DA-014(0.5-1.0)	SED-DA-015(0.0-0.5)	SED-DA-015(0.5-1.0)	SED-DA-015(1.0-1.5)	SED-DA-016(0.0-0.5)	SED-DA-016(0.5-1.0)	SED-DA-017(0.0-0.5)	SED-DA-017(0.5-1.0)	SED-DA-018(0.0-0.5)	SED-DA-DUP-06-081013FD
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	2.52	2.57	3.05	7.30	5.43	4.98	28.1	4.07	3.67	10.9	15.5
Barium	mg/kg	58.5	64.2	70.4	83.1	271	108	89.4	89.3	78.0	196	250
Cadmium	mg/kg	0.0926 J	0.125 J	0.232 J	0.348 J	0.332 J	0.408 J	0.338 J	0.213 J	0.234 J	--	--
Chromium	mg/kg	15.5	12.2	12.8	25.1	28.4	20.4	62.1	14.7	12.3	27.7	34.0
Lead	mg/kg	6.87	11.7	13.5	21.0	21.2	21.3	40.8	16.7	15.8	44.6	45.0
Mercury	mg/kg	0.0123 J	0.0123 J	0.0290 J	0.0302 J	0.0495 J	0.0404 J	0.0412 J	0.0363 J	0.0336 J	0.0687 J	0.0885 J
Nickel	mg/kg	6.90	7.23	9.08	11.1	16.9	13.4	13.7	11.0	9.54	25.9	31.0
Selenium	mg/kg	--	--	--	--	--	--	2.93 J	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	0.416 J	--	--	--	--
Vanadium	mg/kg	21.6	20.7	20.0	37.1	42.8	31.2	92.8	24.9	20.8	44.9	51.5
Other												
Black Carbon	%	--	NA	--	NA	NA	--	NA	--	NA	0.38 J	0.39 J
Percent Moisture	%	16.9	15.9	29.5	26.4	32.0	40.1	44.1	23.6	25.0	63.0	71.2
Total Organic Carbon	%	0.17 J	NA	2.15	NA	NA	5.48	NA	1.88	NA	11.34	11.72
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.392 J	0.943	177	70.2	2.72	14.0	3.69	42.2	282	20.8	22.2
2-Methylnaphthalene	ug/kg	0.641 J	1.92	233	96.3	5.57	12.6	6.32	64.0	395	34.1	40.8
Acenaphthene	ug/kg	0.051 J	0.338	16.4	9.53	0.687	72.7	17.3	4.24	31.4	4.28	5.02
Acenaphthylene	ug/kg	0.040 J	0.121	11.8	6.15	0.908	3.79	2.12	4.06	19.5	12.6	10.6
Anthracene	ug/kg	0.030 J	0.220	24.1	17.7	1.38	9.35	2.27	4.05	23.7	14.4	14.1
Benzo(a)Anthracene	ug/kg	0.058 J	0.169 J	26.8	26.4	2.49	6.00	5.85	11.3	18.2	12.2	12.4
Benzo(a)Pyrene	ug/kg	0.043 J	0.211	30.3	28.8	1.59	4.90	4.02	24.1	39.6	13.8	17.9
Benzo(b)Fluoranthene	ug/kg	0.117 J	0.561	55.8	50.4	10.3	24.0	13.4	48.4	59.5	77.1	87.1
Benzo(g,h,i)Perylene	ug/kg	0.080 J	0.328	32.6	28.9	2.04	13.4	4.80	27.8	69.6	66.3	73.2
Benzo(j)+(k)Fluoranthene	ug/kg	0.035 J	0.236	14.6	15.5	2.12	7.71	4.62	13.7	18.9	16.7	13.8
Chrysene/Triphenylene	ug/kg	0.088 J	0.342	117	74.0	9.63	11.4	11.5	65.4	161	35.5	33.0
Dibenz(a,h)Anthracene	ug/kg	0.016 J	0.084	7.98	8.77	0.897	8.38	1.94	6.77	13.5	11.5	14.3
Fluoranthene	ug/kg	0.409	1.70	62.0	52.7	8.45	39.6	15.6	38.3	59.2	43.5 J	44.9 J
Fluorene	ug/kg	1.16	3.43	79.0	44.5	3.86	97.5	23.6	34.0	140	17.3 J	33.4 J
Indeno[1,2,3-cd]pyrene	ug/kg	0.054	0.254	15.7	14.2	2.34	5.60	5.21	1.06	21.2	40.7	45.7
Naphthalene	ug/kg	--	1.47	32.3	14.4	6.50	12.6	6.77	9.19	44.0	19.5	31.5
Phenanthrene	ug/kg	3.39	10.9	331	203	13.0	174	22.8	141	416	35.6 J	64.9 J
Pyrene	ug/kg	0.292	0.815	108	91.7	4.25	31.7	9.85	72.1	111	30.8	29.3
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	0.090 J	0.343	54.2	41.5	3.87	12.5	6.02	42.6	73.0	44.4	48.8
C1-Chrysenes	ug/kg	--	--	340	217	10.3	--	--	188	455	95.7	110
C1-Fluoranthenes/Pyrenes	ug/kg	0.265 J	0.499	328	245	5.66	18.3	9.88	187	484	49.8	53.4
C1-Fluorenes	ug/kg	0.493	1.38	317	178	3.24	12.8	4.57	121	--	21.3	22.3
C1-Phenanthrenes/Anthracenes	ug/kg	--	5.60	926	604	11.8	27.4	11.8	464	1207	47.5	49.0
C2-Chrysenes	ug/kg	--	--	396	197	3.53	--	--	220	628	86.3	109
C2-Fluorenes	ug/kg	--	--	739	435	--	17.6	4.53	316	--	65.8	51.9
C2-Naphthalenes	ug/kg	1.58	4.52	1029	435	8.77	52.9	16.8	315	1647	80.8	79.3
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	1406	1083	11.5	30.1	12.1	842	1767	84.4	80.2
C3-Chrysenes	ug/kg	--	--	262	157	--	--	--	193	510	69.4	85.5
C3-Fluorenes	ug/kg	--	--	714	483	--	18.9	8.90	341	--	64.4	55.3
C3-Naphthalenes	ug/kg	2.71	6.93	1519	643	12.9	27.4	13.3	570	2378	71.6	82.6
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	1743	1073	6.10	22.6	6.15	830	1921	89.5	102
C4-Chrysenes	ug/kg	--	--	170	108	--	--	--	88.9	255	42.4	61.6
C4-Naphthalenes	ug/kg	1.51	5.77	1331	788	6.89	86.6	23.9	488	2056	169	66.6
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	686	5.64	18.3	4.83	613	1290	50.8 J	107 J
Perylene	ug/kg	1.96	12.7	30.8	31.2	166	51.8	201	17.0	37.6	171	192
Phenanthrene, 2-methyl-	ug/kg	--	NA	329 J	NA	NA	10.0 J	NA	142 J	NA	15.6 J	17.4 J
1,1-Biphenyl	ug/kg	--	NA	40.2	NA	NA	6.81	NA	12.0	NA	7.94	10.4
18a-Oleanane	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
1-Methyldibenzothiophene(1MDT)	ug/kg	0.140	NA	284	NA	NA	1.50	NA	163	NA	10.8	7.69
1-Methylfluorene	ug/kg	0.324	NA	213	NA	NA	5.22	NA	95.5	NA	12.3	12.5
1-Methylphenanthrene	ug/kg	--	NA	233	NA	NA	5.49	NA	132	NA	11.5	11.8
2,3,5-Trimethylnaphthalene	ug/kg	0.223	NA	198	NA	NA	3.35	NA	76.4	NA	9.31	9.12
2/3-Methyldibenzothiophene(2MDT)	ug/kg	0.100	NA	434	NA	NA	5.42	NA	205	NA	15.8	12.3
2-Methylanthracene	ug/kg	--	NA	27.6	NA	NA	4.48	NA	8.0	NA	7.76	7.23
2-Methylfluoranthene	ug/kg	0.023 J	NA	23.0	NA	NA	3.43	NA	19.9	NA	4.56	4.77
3,6-Dimethylphenanthrene	ug/kg	--	NA	116	NA	NA	2.42	NA	35.8	NA	8.77	8.15
3-Methylphenanthrene (3MP)	ug/kg	--	NA	238	NA	NA	10.1	NA	138	NA	13.0 J	14.2 J
4-Methyldibenzothiophene(4MDT)	ug/kg	0.216	NA	507	NA	NA	3.47	NA	304	NA	19.0	14.6
9/4-Methylphenanthrene (9MP)	ug/kg	--	NA	386	NA	NA	5.91	NA	187	NA	14.2	13.3

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-014	SED-DA-014	SED-DA-015	SED-DA-015	SED-DA-015	SED-DA-016	SED-DA-016	SED-DA-017	SED-DA-017	SED-DA-018	SED-DA-018
Depths (ft)		0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft
Sample Date		8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/10/2013	8/10/2013
Sample ID		SED-DA-014(0.0-0.5)	SED-DA-014(0.5-1.0)	SED-DA-015(0.0-0.5)	SED-DA-015(0.5-1.0)	SED-DA-015(1.0-1.5)	SED-DA-016(0.0-0.5)	SED-DA-016(0.5-1.0)	SED-DA-017(0.0-0.5)	SED-DA-017(0.5-1.0)	SED-DA-018(0.0-0.5)	SED-DA-DUP-06-081013FD
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	--	NA	--	NA	NA	4.03	NA	--	NA	26.6	22.9
Benzo(b)fluorene	ug/kg	0.035 J	NA	43.4	NA	NA	3.31	NA	22.3	NA	7.68	8.20
Benzothiophene	ug/kg	--	NA	5.47	NA	NA	1.30	NA	1.35	NA	--	--
C1-Benzo(b)thiophenes	ug/kg	--	NA	56.9	NA	NA	11.9	NA	15.7	NA	--	--
C1-Decalins	ug/kg	--	NA	--	NA	NA	--	NA	7.85	NA	--	80.3 J
C1-Dibenzothiophenes	ug/kg	0.393	0.683	1054	481	2.94	8.94	5.22	578	1394	40.8	30.9
C1-Naphthalenes	ug/kg	0.670 J	1.82	265	105	5.25	17.1	6.49	68.7	438	35.0	40.3
C1-Naphthobenzothiophenes	ug/kg	0.316	NA	511	NA	NA	7.71	NA	323	NA	82.3	97.4
C20-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C21-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C26(20S)-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C27(20R)-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C28(20R)-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C28(20S)-TAS	ug/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
C29-Hopane	ug/kg	--	NA	812	NA	NA	83.6	NA	--	NA	--	--
C2-Benzo(b)thiophenes	ug/kg	--	NA	113	NA	NA	62.3	NA	60.9	NA	--	--
C2-Decalins	ug/kg	--	NA	--	NA	NA	--	NA	22.1	NA	--	--
C2-Dibenzothiophenes	ug/kg	0.604	1.08	1872	888	--	9.88	6.08	1019	2449	76.9	61.9
C2-Fluoranthenes/Pyrenes	ug/kg	0.369 J	1.07	686	401	--	--	--	307	502	97.3	95.3
C2-Naphthobenzothiophenes	ug/kg	0.616	NA	766	NA	NA	12.4	NA	507	NA	169	192
C30-Hopane	ug/kg	--	NA	902	NA	NA	81.6	NA	--	NA	--	--
C3-Benzo(b)thiophenes	ug/kg	--	NA	473	NA	NA	38.5	NA	163	NA	--	--
C3-Decalins	ug/kg	--	NA	--	NA	NA	--	NA	83.1	NA	--	--
C3-Dibenzothiophenes	ug/kg	0.730	1.04	2082	1125	--	14.1	5.87	1394	2588	113	113
C3-Fluoranthenes/Pyrenes	ug/kg	0.277 J	--	458	254	--	--	--	224	672	57.6	81.5
C3-Naphthobenzothiophenes	ug/kg	0.409	NA	576	NA	NA	7.59	NA	401	NA	145	164
C4-Benzo(b)thiophenes	ug/kg	--	NA	604	NA	NA	42.3	NA	244	NA	--	--
C4-Decalins	ug/kg	--	NA	--	NA	NA	--	NA	151	NA	--	--
C4-Dibenzothiophenes	ug/kg	--	0.597	1486	807	--	5.56	2.85	833	1562	119	110
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	435	311	--	--	--	260	560	95.9	61.7
C4-Naphthobenzothiophenes	ug/kg	--	NA	352	NA	NA	16.6	NA	188	NA	61.6	70.3
Carbazole	ug/kg	0.054 J	NA	10.7	--	--	1.70	--	7.47	--	6.96	7.64
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	NA	--	NA	NA	--	NA	4.45	NA	19.9	18.9
Dibenzofuran	ug/kg	0.853	NA	34.4	NA	NA	54.3	NA	14.7	NA	9.51 J	20.6 J
Dibenzothiophene	ug/kg	0.349	0.721	283	127	2.45	14.1	4.55	142	460	18.5	17.3
Naphthalene, 2,6-dimethyl-	ug/kg	0.671	NA	469	NA	NA	19.7	NA	145	NA	31.6	33.8
Naphthobenzothiophene	ug/kg	0.231	NA	190	NA	NA	6.00	NA	119	NA	23.7	22.2
Retene	ug/kg	--	NA	126	NA	NA	7.22	NA	67.0	NA	5.52	4.76
TPH												
EOM (Extracted Organic Material)	mg/kg	28 J	NA	4555	NA	NA	1477	NA	3004	NA	5266	4838
i-C15	mg/kg	--	NA	0.817	NA	NA	0.119	NA	0.426	NA	0.751 J	0.076 J
i-C16	mg/kg	--	NA	1.501	NA	NA	0.139	NA	0.931	NA	0.938 J	0.237 J
i-C18	mg/kg	--	NA	1.182	NA	NA	0.166	NA	0.874	NA	0.051	0.058
n-C10 (n-Decane)	mg/kg	--	NA	0.019 J	NA	NA	--	NA	0.024	NA	0.017 J	0.037
n-C11 (n-Undecane)	mg/kg	--	NA	0.061	NA	NA	0.006 J	NA	0.032	NA	0.044	0.065
n-C12 (n-Dodecane)	mg/kg	--	NA	0.322	NA	NA	0.049	NA	0.121	NA	0.055 J	0.187 J
n-C13 (n-Tridecane)	mg/kg	--	NA	0.654	NA	NA	0.022 J	NA	0.235	NA	0.079	0.149
n-C14 (n-Tetradecane)	mg/kg	--	NA	1.357	NA	NA	0.048	NA	0.687	NA	0.120 J	0.338 J
n-C15 (Pentadecane)	mg/kg	--	NA	1.222	NA	NA	0.217	NA	0.834	NA	2.050 J	0.792 J
n-C16 (n-Hexadecane)	mg/kg	--	NA	1.428	NA	NA	0.122	NA	1.077	NA	0.049 J	0.298 J
n-C17 (Heptadecane)	mg/kg	--	NA	1.618	NA	NA	0.044	NA	1.241	NA	0.837	0.704
n-C18 (Octadecane)	mg/kg	--	NA	1.326	NA	NA	0.259	NA	1.108	NA	1.214	1.338
n-C19 (Nonadecane)	mg/kg	--	NA	1.308	NA	NA	0.132	NA	0.960	NA	1.223	1.404
n-C20 (Eicosane)	mg/kg	--	NA	0.954	NA	NA	0.035	NA	0.781	NA	0.239	0.258
n-C21 (Heneicosane)	mg/kg	--	NA	1.049	NA	NA	0.253	NA	0.911	NA	4.764	5.131
n-C22 (Docosane)	mg/kg	--	NA	0.717	NA	NA	0.113	NA	0.579	NA	0.465	0.443
n-C23 (Tricosane)	mg/kg	--	NA	0.535	NA	NA	0.124	NA	0.591	NA	4.893	4.894
n-C24 (Tetracosane)	mg/kg	--	NA	0.612	NA	NA	0.122	NA	0.566	NA	0.655	0.665
n-C25 (Pentacosane)	mg/kg	--	NA	0.785	NA	NA	0.245	NA	0.631	NA	4.179	4.330
n-C26 (Hexacosane)	mg/kg	--	NA	0.473	NA	NA	0.058	NA	0.384	NA	0.633	0.497
n-C27 (Heptacosane)	mg/kg	--	NA	1.073	NA	NA	0.576	NA	0.865	NA	5.294	5.139
n-C28 (Octacosane)	mg/kg	--	NA	0.496	NA	NA	0.407	NA	0.505	NA	1.170	0.999
n-C29 (Nonacosane)	mg/kg	--	NA	3.437	NA	NA	2.841	NA	1.078	NA	8.569	8.060
n-C30 (n-Triacontane)	mg/kg	--	NA	0.663	NA	NA	0.255	NA	0.618	NA	1.423	1.410
n-C31 (Hentriacontane)	mg/kg	--	NA	3.557	NA	NA	1.870	NA	1.111	NA	12.499	10.358

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-014	SED-DA-014	SED-DA-015	SED-DA-015	SED-DA-015	SED-DA-016	SED-DA-016	SED-DA-017	SED-DA-017	SED-DA-018	SED-DA-018
Depths (ft)		0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0.5-1 ft	0-0.5 ft	0-0.5 ft
Sample Date		8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/10/2013	8/10/2013
Sample ID		SED-DA-014(0.0-0.5)	SED-DA-014(0.5-1.0)	SED-DA-015(0.0-0.5)	SED-DA-015(0.5-1.0)	SED-DA-015(1.0-1.5)	SED-DA-016(0.0-0.5)	SED-DA-016(0.5-1.0)	SED-DA-017(0.0-0.5)	SED-DA-017(0.5-1.0)	SED-DA-018(0.0-0.5)	SED-DA-DUP-06-081013FD
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	--	NA	0.234	NA	NA	0.164	NA	0.352	NA	2.803	2.879
n-C33	mg/kg	--	NA	1.791	NA	NA	1.646	NA	0.709	NA	12.325	14.808
n-C34 (Tetratriacontane)	mg/kg	--	NA	0.346	NA	NA	0.178	NA	0.264	NA	1.776	2.628
n-C35	mg/kg	--	NA	1.459	NA	NA	1.320	NA	0.682	NA	5.203	3.877
n-C36 (Hexatriacontane)	mg/kg	--	NA	0.474	NA	NA	0.084	NA	0.255	NA	1.693 J	0.504 J
n-C37	mg/kg	--	NA	0.712	NA	NA	1.233	NA	0.690	NA	4.761 J	1.679 J
n-C38 (Octatriacontane)	mg/kg	--	NA	--	NA	NA	--	NA	--	NA	0.421	0.372
n-C39 (Nonatriacontane)	mg/kg	--	NA	--	NA	NA	--	NA	--	NA	1.234	1.237
n-C40 (Tetracontane)	mg/kg	--	NA	--	NA	NA	--	NA	--	NA	0.148	0.111
n-C9 (Nonane)	mg/kg	--	NA	--	NA	NA	--	NA	--	NA	--	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	--	NA	1.969	NA	NA	0.121	NA	1.572	NA	0.645	0.649
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	--	NA	1.687	NA	NA	0.017	NA	1.290	NA	0.272	0.376
Total Alkanes	mg/kg	--	NA	35.8	NA	NA	13.0	NA	23.0	NA	83.5	77.0
Total Petroleum Hydrocarbons	mg/kg	--	NA	1841	NA	NA	529	NA	1462	NA	1713	1658
Total Resolveable Hydrocarbons	mg/kg	--	NA	228	NA	NA	343	NA	168	NA	687	667
Unresolved Complex Mixture	mg/kg	--	NA	1613	NA	NA	186	NA	1294	NA	1026	992
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	520	200	--	--	--	9	2500	12 J	10 J
1,3,5-Trimethylbenzene	ug/kg	--	--	270 J	100	--	--	--	6	1100	10 J	7 J
2-Butanone (MEK)	ug/kg	--	--	--	--	--	--	--	--	--	34 J	55
2-Phenylbutane	ug/kg	--	--	--	26	--	--	--	2 J	280 J	--	--
Acetone	ug/kg	--	7 J	--	42	22 J	62	30 J	19 J	--	210	260
Benzene	ug/kg	--	--	--	19	--	--	--	0.7 J	--	4 J	6 J
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	110 J	66	--	--	--	1 J	350	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	29	--	--	--	1 J	280 J	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	3 J	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	100 J	30	--	--	--	2 J	430	--	--
n-Propylbenzene	ug/kg	--	--	100 J	48	--	--	--	2 J	480	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	130 J	40	--	--	--	2 J	840	--	--
Toluene	ug/kg	--	--	90 J	12	--	--	--	--	--	5 J	--
Trichloroethene	ug/kg	1 J	1 J	--	2 J	2 J	2 J	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	730	420	--	--	--	8	2600	18 J	23

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019
	Depths (ft)	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.2 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft
	Sample Date	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-018(0.5-1.0)	SED-DA-018(1.0-1.5)	SED-DA-018(1.5-2.0)	SED-DA-018(2.0-3.0)	SED-DA-018(3.0-3.2)	SED-DA-019(0.0-0.5)	SED-DA-019(0.5-1.0)	SED-DA-019(1.0-1.5)	SED-DA-019(1.5-2.0)	SED-DA-019(2.0-3.0)	SED-DA-019(3.0-3.3)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	10.0	4.76	NA	NA	NA	7.29 J	19.9	4.95	NA	NA	NA
Barium	mg/kg	177	110	NA	NA	NA	112	278	113	NA	NA	NA
Cadmium	mg/kg	--	--	NA	NA	NA	--	--	--	NA	NA	NA
Chromium	mg/kg	23.9	15.3	NA	NA	NA	16.0	35.0	14.9	NA	NA	NA
Lead	mg/kg	38.0	16.8	NA	NA	NA	19.8	58.8	17.2	NA	NA	NA
Mercury	mg/kg	0.0662 J	0.0347 J	NA	NA	NA	--	0.102 J	0.0546 J	NA	NA	NA
Nickel	mg/kg	23.1	12.5	NA	NA	NA	14.9	32.8	11.8	NA	NA	NA
Selenium	mg/kg	--	--	NA	NA	NA	--	--	--	NA	NA	NA
Silver	mg/kg	--	--	NA	NA	NA	--	--	--	NA	NA	NA
Vanadium	mg/kg	38.5	27.9	NA	NA	NA	23.0	59.8	27.4	NA	NA	NA
Other												
Black Carbon	%	NA	NA	NA	NA	NA	0.37 J	NA	NA	NA	NA	NA
Percent Moisture	%	58.7	32.4	29.3	20.3	18.4	85.4	88.8	23.4	21.6	21.7	17.4
Total Organic Carbon	%	NA	NA	NA	NA	NA	10.58	NA	NA	NA	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	7.01	1.67	0.882	NA	NA	22.9 J	4.43	1.38	NA	NA	NA
2-Methylnaphthalene	ug/kg	15.0	3.60	1.93	NA	NA	41.2	9.51	2.62	NA	NA	NA
Acenaphthene	ug/kg	2.53	0.615	0.251	NA	NA	6.31 J	2.76	0.324	NA	NA	NA
Acenaphthylene	ug/kg	5.47	0.473	0.136	NA	NA	15.6 J	3.43	--	NA	NA	NA
Anthracene	ug/kg	9.05	0.597	0.135	NA	NA	23.2 J	10.1	0.514	NA	NA	NA
Benzo(a)Anthracene	ug/kg	10.9	0.794	0.206	NA	NA	12.9	10.2	1.78	NA	NA	NA
Benzo(a)Pyrene	ug/kg	10.4	--	0.308	NA	NA	24.1 J	11.9	0.930	NA	NA	NA
Benzo(b)Fluoranthene	ug/kg	54.8	--	0.686	NA	NA	98.6 J	40.8	5.22	NA	NA	NA
Benzo(g,h,i)Perylene	ug/kg	--	--	0.592	NA	NA	99.1	--	1.07	NA	NA	NA
Benzo(j)+(k)Fluoranthene	ug/kg	13.8	--	0.186	NA	NA	31.9	11.9	0.87	NA	NA	NA
Chrysene/Triphenylene	ug/kg	38.1	3.41	0.502	NA	NA	54.8	22.9	4.47	NA	NA	NA
Dibenz(a,h)Anthracene	ug/kg	14.1	--	0.167	NA	NA	12.6 J	--	1.40	NA	NA	NA
Fluoranthene	ug/kg	36.9 J	3.15 J	1.20 J	NA	NA	58.4 J	30.9 J	3.67 J	NA	NA	NA
Fluorene	ug/kg	12.1	4.34	3.57	NA	NA	25.8 J	10.5	3.20	NA	NA	NA
Indeno[1,2,3-cd]pyrene	ug/kg	16.1	--	0.423	NA	NA	50.4	14.1	1.23	NA	NA	NA
Naphthalene	ug/kg	13.7	4.35	2.39	NA	NA	20.5 J	11.0	4.21	NA	NA	NA
Phenanthrene	ug/kg	36.1	11.2	7.38	NA	NA	70.6	32.5	8.72	NA	NA	NA
Pyrene	ug/kg	21.8	1.90	0.503	NA	NA	50.1	16.3	1.94	NA	NA	NA
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	36.9	--	0.372	NA	NA	57.4	23.4	2.45	NA	NA	NA
C1-Chrysenes	ug/kg	191	--	--	NA	NA	101	--	--	NA	NA	NA
C1-Fluoranthenes/Pyrenes	ug/kg	52.5	3.14	1.14	NA	NA	86.1	40.8	3.66	NA	NA	NA
C1-Fluorenes	ug/kg	10.5	2.25	1.63	NA	NA	43.1	9.87	2.14	NA	NA	NA
C1-Phenanthrenes/Anthracenes	ug/kg	42.8	7.40	5.08	NA	NA	108	30.4	6.81	NA	NA	NA
C2-Chrysenes	ug/kg	118	--	--	NA	NA	94.8	--	--	NA	NA	NA
C2-Fluorenes	ug/kg	49.0	--	--	NA	NA	127	18.9	--	NA	NA	NA
C2-Naphthalenes	ug/kg	29.1	6.67	3.51	NA	NA	125	37.3	5.57	NA	NA	NA
C2-Phenanthrenes/Anthracenes	ug/kg	82.8	6.88	5.28	NA	NA	210	53.5	--	NA	NA	NA
C3-Chrysenes	ug/kg	93.3	--	--	NA	NA	104	--	--	NA	NA	NA
C3-Fluorenes	ug/kg	49.2	--	--	NA	NA	140	22.5	--	NA	NA	NA
C3-Naphthalenes	ug/kg	22.6	7.23	6.36	NA	NA	178	24.8	6.41	NA	NA	NA
C3-Phenanthrenes/Anthracenes	ug/kg	125	--	2.08	NA	NA	261	59.6	--	NA	NA	NA
C4-Chrysenes	ug/kg	31.1	--	--	NA	NA	85.1	--	--	NA	NA	NA
C4-Naphthalenes	ug/kg	39.5	11.0	--	NA	NA	180	114	--	NA	NA	NA
C4-Phenanthrenes/Anthracenes	ug/kg	111	--	--	NA	NA	167	58.1	--	NA	NA	NA
Perylene	ug/kg	330	321	13.9	NA	NA	200	334	158	NA	NA	NA
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	NA	NA	31.4 J	NA	NA	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	NA	NA	9.79	NA	NA	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	NA	NA	29.7	NA	NA	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	NA	NA	28.0	NA	NA	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	NA	NA	28.6	NA	NA	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	NA	NA	29.2	NA	NA	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	NA	NA	34.4	NA	NA	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	NA	NA	12.4	NA	NA	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	NA	NA	7.61 J	NA	NA	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	NA	NA	19.0 J	NA	NA	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	NA	NA	31.0 J	NA	NA	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	NA	NA	53.1	NA	NA	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	NA	NA	37.3	NA	NA	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019
Depths (ft)		0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.2 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft
Sample Date		8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013
Sample ID		SED-DA-018(0.5-1.0)	SED-DA-018(1.0-1.5)	SED-DA-018(1.5-2.0)	SED-DA-018(2.0-3.0)	SED-DA-018(3.0-3.2)	SED-DA-019(0.0-0.5)	SED-DA-019(0.5-1.0)	SED-DA-019(1.0-1.5)	SED-DA-019(1.5-2.0)	SED-DA-019(2.0-3.0)	SED-DA-019(3.0-3.3)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	NA	NA	19.2	NA	NA	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	NA	NA	14.2	NA	NA	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	27.9	1.72	0.637	NA	NA	105	16.3	1.35	NA	NA	NA
C1-Naphthalenes	ug/kg	14.1	3.38	1.81	NA	NA	41.0	8.94	2.57	NA	NA	NA
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	93.7	NA	NA	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	78.8	1.59	1.22	NA	NA	213	39.7	1.51	NA	NA	NA
C2-Fluoranthenes/Pyrenes	ug/kg	109	--	--	NA	NA	165	--	--	NA	NA	NA
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	191	NA	NA	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	174	2.02	1.98	NA	NA	253	76.1	1.91	NA	NA	NA
C3-Fluoranthenes/Pyrenes	ug/kg	97.2	--	--	NA	NA	126	--	--	NA	NA	NA
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	185	NA	NA	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	182	2.14	1.21	NA	NA	209	70.4	1.56	NA	NA	NA
C4-Fluoranthenes/Pyrenes	ug/kg	117	--	--	NA	NA	137	--	--	NA	NA	NA
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	NA	NA	87.4	NA	NA	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	NA	NA	11.3	NA	NA	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	NA	NA	30.8	NA	NA	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	NA	NA	15.9 J	NA	NA	NA	NA	NA
Dibenzothiophene	ug/kg	11.2	1.34	0.374	NA	NA	32.2	7.94	1.03	NA	NA	NA
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	NA	NA	54.5	NA	NA	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	NA	NA	37.2	NA	NA	NA	NA	NA
Retene	ug/kg	NA	NA	NA	NA	NA	17.5 J	NA	NA	NA	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	NA	NA	NA	5275	NA	NA	NA	NA	NA
i-C15	mg/kg	NA	NA	NA	NA	NA	0.317	NA	NA	NA	NA	NA
i-C16	mg/kg	NA	NA	NA	NA	NA	0.622	NA	NA	NA	NA	NA
i-C18	mg/kg	NA	NA	NA	NA	NA	0.338	NA	NA	NA	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	NA	NA	NA	0.052	NA	NA	NA	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	NA	NA	NA	0.151	NA	NA	NA	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	NA	NA	NA	0.406	NA	NA	NA	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	NA	NA	NA	0.254	NA	NA	NA	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	NA	NA	NA	0.592	NA	NA	NA	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	NA	NA	NA	1.532 J	NA	NA	NA	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	NA	NA	NA	0.543	NA	NA	NA	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	NA	NA	NA	1.396 J	NA	NA	NA	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	NA	NA	NA	2.445 J	NA	NA	NA	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	NA	NA	NA	1.690	NA	NA	NA	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	NA	NA	NA	0.259	NA	NA	NA	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	NA	NA	NA	4.842	NA	NA	NA	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	NA	NA	NA	0.598	NA	NA	NA	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	NA	NA	NA	5.255	NA	NA	NA	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	NA	NA	NA	0.886	NA	NA	NA	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	NA	NA	NA	4.130	NA	NA	NA	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	NA	NA	NA	0.549	NA	NA	NA	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	NA	NA	NA	5.632	NA	NA	NA	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	NA	NA	NA	1.231	NA	NA	NA	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	NA	NA	NA	8.291	NA	NA	NA	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	NA	NA	NA	1.436	NA	NA	NA	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	NA	NA	NA	22.437	NA	NA	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-018	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019	SED-DA-019
Depths (ft)		0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.2 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft
Sample Date		8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013
Sample ID		SED-DA-018(0.5-1.0)	SED-DA-018(1.0-1.5)	SED-DA-018(1.5-2.0)	SED-DA-018(2.0-3.0)	SED-DA-018(3.0-3.2)	SED-DA-019(0.0-0.5)	SED-DA-019(0.5-1.0)	SED-DA-019(1.0-1.5)	SED-DA-019(1.5-2.0)	SED-DA-019(2.0-3.0)	SED-DA-019(3.0-3.3)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	NA	NA	NA	NA	NA	2.901	NA	NA	NA	NA	NA
n-C33	mg/kg	NA	NA	NA	NA	NA	18.048	NA	NA	NA	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	NA	NA	NA	0.473	NA	NA	NA	NA	NA
n-C35	mg/kg	NA	NA	NA	NA	NA	7.882	NA	NA	NA	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	NA	NA	NA	0.479	NA	NA	NA	NA	NA
n-C37	mg/kg	NA	NA	NA	NA	NA	2.523	NA	NA	NA	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	NA	NA	NA	0.693	NA	NA	NA	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	NA	NA	NA	1.473	NA	NA	NA	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	NA	NA	NA	--	NA	NA	NA	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	NA	NA	NA	1.174	NA	NA	NA	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	NA	NA	NA	0.730	NA	NA	NA	NA	NA
Total Alkanes	mg/kg	NA	NA	NA	NA	NA	102	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	2328	NA	NA	NA	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	NA	NA	NA	792	NA	NA	NA	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	NA	NA	NA	1536	NA	NA	NA	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	34 J	--	--	--	--	42 J	87 J	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	220	18 J	--	--	--	290	630	19 J	10 J	9 J	--
Benzene	ug/kg	4 J	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	6 J	2 J	--	--	--	--	--	2 J
Xylene (Total)	ug/kg	7 J	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-020	SED-DA-020	SED-DA-020	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-022	SED-DA-022
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft	0-0.5 ft	0.5-1 ft
Sample Date		7/30/2013	7/30/2013	7/30/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/16/2013	8/16/2013
Sample ID		SED-DA-020(0.0-0.5)	SED-DA-020(0.5-1.0)	SED-DA-020(1.0-1.5)	SED-DA-021(0.0-0.5)	SED-DA-021(0.5-1.0)	SED-DA-021(1.0-1.5)	SED-DA-021(1.5-2.0)	SED-DA-021(2.0-3.0)	SED-DA-021(3.0-3.3)	SED-DA-022(0.0-0.5)	SED-DA-022(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	10.1 J	12.9 J	3.50	10.6	3.14	2.74	NA	NA	NA	12.6	3.87
Barium	mg/kg	207	284	99.2	202	107	94.6	NA	NA	NA	191	101
Cadmium	mg/kg	--	--	--	0.254 J	--	--	NA	NA	NA	--	--
Chromium	mg/kg	28.0 J	42.4 J	14.1 J	26.5 J	17.4 J	15.5 J	NA	NA	NA	25.3	14.2
Lead	mg/kg	41.7	80.0	15.9	35.8	15.6	11.5	NA	NA	NA	35.3	14.8
Mercury	mg/kg	0.121 J	0.157 J	0.0412 J	0.0892 J	0.0397 J	0.0194 J	NA	NA	NA	0.0805 J	0.0385 J
Nickel	mg/kg	27.5	38.6	11.5	25.0	10.3	10.0	NA	NA	NA	23.3	9.56
Selenium	mg/kg	--	--	--	--	--	1.35 J	NA	NA	NA	--	--
Silver	mg/kg	--	--	--	--	--	--	NA	NA	NA	--	--
Vanadium	mg/kg	45.2	69.5	25.8	42.4	30.3	26.4	NA	NA	NA	41.9	24.8
Other												
Black Carbon	%	0.36 J	NA	NA	0.41 J	NA	NA	NA	NA	NA	0.23 J	NA
Percent Moisture	%	87.0	88.0	26.2	67.5	27.2	24.0	19.1	18.1	17.2	82.3	32.4
Total Organic Carbon	%	11.6	NA	NA	12.63	NA	NA	NA	NA	NA	6.68	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	18.2	5.46	2.33	23.3	3.25	1.19	NA	NA	NA	10.2	1.32
2-Methylnaphthalene	ug/kg	31.7	12.8	4.92	39.8	6.48	2.42	NA	NA	NA	19.7	2.92
Acenaphthene	ug/kg	6.17	6.17	1.67	4.66	0.702	0.337	NA	NA	NA	4.69	0.969
Acenaphthylene	ug/kg	10.4	3.98	0.961	9.62	0.542	0.052	NA	NA	NA	8.89	0.490
Anthracene	ug/kg	18.8	8.77	1.86	15.6	0.634	--	NA	NA	NA	13.9	0.594
Benzo(a)Anthracene	ug/kg	23.5	8.97	2.14	14.5	1.32	--	NA	NA	NA	10.5	0.671
Benzo(a)Pyrene	ug/kg	26.5	10.9	1.87	16.3	--	--	NA	NA	NA	10.5	0.565
Benzo(b)Fluoranthene	ug/kg	104	43.8	10.2	62.1	5.79	0.227	NA	NA	NA	43.9	2.86
Benzo(g,h,i)Perylene	ug/kg	66.2	33.6	3.08	37.5	1.93	--	NA	NA	NA	45.7	1.22
Benzo(j)+(k)Fluoranthene	ug/kg	36.8	11.8	2.73	12.1	0.831	0.082 J	NA	NA	NA	13.1	0.721
Chrysene/Triphenylene	ug/kg	57.7	56.2	7.02	31.5	4.47	--	NA	NA	NA	27.9	2.14
Dibenz(a,h)Anthracene	ug/kg	8.97	7.3	8.77	9.01	1.19	--	NA	NA	NA	11.2	0.949
Fluoranthene	ug/kg	76.3	33.2	11.6	42.3	4.82	0.763	NA	NA	NA	31.3	4.25
Fluorene	ug/kg	26.0	15.7	9.55	22.6	4.73	3.43	NA	NA	NA	23.5	8.45
Indeno[1,2,3-cd]pyrene	ug/kg	32.9	17.0	3.33	30.4	2.18	--	NA	NA	NA	45.4	2.50
Naphthalene	ug/kg	15.3	10.9	5.80	29.6	9.04	3.26	NA	NA	NA	16.0	3.21
Phenanthrene	ug/kg	90.6	46.1	35.5	54.9	11.3	7.83	NA	NA	NA	49.1	22.5
Pyrene	ug/kg	58.2	22.6	5.83	37.1	3.58	0.387	NA	NA	NA	24.4	2.39
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	59.9	38.2	4.72	29.0	--	--	NA	NA	NA	20.2	1.22
C1-Chrysenes	ug/kg	157	369	--	74.5	--	--	NA	NA	NA	176	--
C1-Fluoranthenes/Pyrenes	ug/kg	86.7	73.5	7.61	34.2	3.21	--	NA	NA	NA	29.7	2.13
C1-Fluorenes	ug/kg	34.2	11.3	5.44	17.4	2.48	1.50	NA	NA	NA	17.7	3.36
C1-Phenanthrenes/Anthracenes	ug/kg	97.8	42.2	12.1	35.7	6.53	3.05	NA	NA	NA	40.7	7.69
C2-Chrysenes	ug/kg	149	219	--	68.7	--	--	NA	NA	NA	55.0	--
C2-Fluorenes	ug/kg	91.9	49.8	15.2	37.6	5.79	--	NA	NA	NA	52.1	--
C2-Naphthalenes	ug/kg	84.0	28.9	9.31	71.7	8.35	3.82	NA	NA	NA	47.9	8.52
C2-Phenanthrenes/Anthracenes	ug/kg	165	93.5	14.8	45.3	7.19	--	NA	NA	NA	73.7	5.81
C3-Chrysenes	ug/kg	132	164	--	54.0	--	--	NA	NA	NA	45.9	--
C3-Fluorenes	ug/kg	124	49.0	11.3	43.5	5.33	--	NA	NA	NA	51.4	--
C3-Naphthalenes	ug/kg	122	29.7	9.54	71.5	9.42	7.19	NA	NA	NA	53.3	9.31
C3-Phenanthrenes/Anthracenes	ug/kg	171	129	7.57	54.6	2.91	--	NA	NA	NA	80.9	2.90
C4-Chrysenes	ug/kg	76.8	79.5	--	35.3	--	--	NA	NA	NA	22.7	--
C4-Naphthalenes	ug/kg	103	36.3	12.9	40.5	8.10	--	NA	NA	NA	54.1	--
C4-Phenanthrenes/Anthracenes	ug/kg	163	122	9.19	46.7	2.68	--	NA	NA	NA	86.9	--
Perylene	ug/kg	305	562 EJ	337	120	297	19.3	NA	NA	NA	266	129
Phenanthrene, 2-methyl-	ug/kg	35.8	NA	NA	11.6 J	NA	NA	NA	NA	NA	13.9	NA
1,1-Biphenyl	ug/kg	7.54	NA	NA	8.68	NA	NA	NA	NA	NA	6.63	NA
18a-Oleanane	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	21.0	NA	NA	6.44	NA	NA	NA	NA	NA	8.39	NA
1-Methylfluorene	ug/kg	19.2	NA	NA	9.49	NA	NA	NA	NA	NA	9.46	NA
1-Methylphenanthrene	ug/kg	27.4	NA	NA	8.39	NA	NA	NA	NA	NA	9.38	NA
2,3,5-Trimethylnaphthalene	ug/kg	16.6	NA	NA	8.48	NA	NA	NA	NA	NA	5.92	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	33.2	NA	NA	10.5	NA	NA	NA	NA	NA	11.6	NA
2-Methylanthracene	ug/kg	10.8	NA	NA	5.51	NA	NA	NA	NA	NA	7.78	NA
2-Methylfluoranthene	ug/kg	7.20	NA	NA	4.84	NA	NA	NA	NA	NA	3.50	NA
3,6-Dimethylphenanthrene	ug/kg	14.5	NA	NA	5.74	NA	NA	NA	NA	NA	5.13	NA
3-Methylphenanthrene (3MP)	ug/kg	26.0	NA	NA	11.4	NA	NA	NA	NA	NA	11.4	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	42.2	NA	NA	13.5	NA	NA	NA	NA	NA	14.5	NA
9/4-Methylphenanthrene (9MP)	ug/kg	36.3	NA	NA	9.84	NA	NA	NA	NA	NA	12.6	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-020	SED-DA-020	SED-DA-020	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-022	SED-DA-022
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft	0-0.5 ft	0.5-1 ft
Sample Date		7/30/2013	7/30/2013	7/30/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/16/2013	8/16/2013
Sample ID		SED-DA-020(0.0-0.5)	SED-DA-020(0.5-1.0)	SED-DA-020(1.0-1.5)	SED-DA-021(0.0-0.5)	SED-DA-021(0.5-1.0)	SED-DA-021(1.0-1.5)	SED-DA-021(1.5-2.0)	SED-DA-021(2.0-3.0)	SED-DA-021(3.0-3.3)	SED-DA-022(0.0-0.5)	SED-DA-022(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	13.0	NA	NA	11.1	NA	NA	NA	NA	NA	15.8	NA
Benzo(b)fluorene	ug/kg	14.3	NA	NA	8.50	NA	NA	NA	NA	NA	6.61	NA
Benzothiophene	ug/kg	1.78	NA	NA	1.72	NA	NA	NA	NA	NA	0.91	NA
C1-Benzo(b)thiophenes	ug/kg	12.0	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C1-Decalins	ug/kg	28.4	NA	NA	5.64	NA	NA	NA	NA	NA	--	NA
C1-Dibenzothiophenes	ug/kg	84.7	26.3	2.86	25.5	2.21	--	NA	NA	NA	24.9	--
C1-Naphthalenes	ug/kg	29.8	11.2	4.45	41.0	6.34	2.35	NA	NA	NA	19.4	2.83
C1-Naphthobenzothiophenes	ug/kg	144	NA	NA	45.1	NA	NA	NA	NA	NA	57.7	NA
C20-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C21-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C26(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C27(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C28(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C28(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C29-Hopane	ug/kg	--	NA	NA	103	NA	NA	NA	NA	NA	--	NA
C2-Benzo(b)thiophenes	ug/kg	27.8	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C2-Decalins	ug/kg	53.2	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C2-Dibenzothiophenes	ug/kg	172	72.2	5.44	36.4	2.38	--	NA	NA	NA	--	--
C2-Fluoranthenes/Pyrenes	ug/kg	174	160	--	54.9	--	--	NA	NA	NA	--	--
C2-Naphthobenzothiophenes	ug/kg	236	NA	NA	77.7	NA	NA	NA	NA	NA	99.6	NA
C30-Hopane	ug/kg	--	NA	NA	157	NA	NA	NA	NA	NA	--	NA
C3-Benzo(b)thiophenes	ug/kg	47.3	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C3-Decalins	ug/kg	84.1	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C3-Dibenzothiophenes	ug/kg	236	145	7.50	55.8	2.43	--	NA	NA	NA	--	--
C3-Fluoranthenes/Pyrenes	ug/kg	139	171	--	34.8	--	--	NA	NA	NA	--	--
C3-Naphthobenzothiophenes	ug/kg	250	NA	NA	76.7	NA	NA	NA	NA	NA	87.0	NA
C4-Benzo(b)thiophenes	ug/kg	45.3	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C4-Decalins	ug/kg	106	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C4-Dibenzothiophenes	ug/kg	206	137	5.05	40.1	1.77	--	NA	NA	NA	--	2.41
C4-Fluoranthenes/Pyrenes	ug/kg	175	189	--	48.4	--	--	NA	NA	NA	--	--
C4-Naphthobenzothiophenes	ug/kg	114	NA	NA	32.8	NA	NA	NA	NA	NA	49.6	NA
Carbazole	ug/kg	9.94	NA	NA	6.84	NA	NA	NA	NA	NA	4.86	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	61.4	NA	NA	52.4	NA	NA	NA	NA	NA	--	NA
Dibenzofuran	ug/kg	15.4	NA	NA	13.0	NA	NA	NA	NA	NA	16.2	NA
Dibenzothiophene	ug/kg	37.2	11.8	2.75	14.0	1.57	0.276	NA	NA	NA	11.2	1.12
Naphthalene, 2,6-dimethyl-	ug/kg	42.3	NA	NA	33.5	NA	NA	NA	NA	NA	13.8	NA
Naphthobenzothiophene	ug/kg	48.3	NA	NA	17.9	NA	NA	NA	NA	NA	19.7	NA
Retene	ug/kg	23.0	NA	NA	7.20	NA	NA	NA	NA	NA	18.2	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	6062	NA	NA	4225	NA	NA	NA	NA	NA	2950	NA
i-C15	mg/kg	0.186	NA	NA	0.067	NA	NA	NA	NA	NA	0.033	NA
i-C16	mg/kg	0.644	NA	NA	0.223	NA	NA	NA	NA	NA	0.156	NA
i-C18	mg/kg	0.255	NA	NA	0.038	NA	NA	NA	NA	NA	0.089	NA
n-C10 (n-Decane)	mg/kg	0.032	NA	NA	0.033	NA	NA	NA	NA	NA	--	NA
n-C11 (n-Undecane)	mg/kg	0.108	NA	NA	0.114	NA	NA	NA	NA	NA	0.027	NA
n-C12 (n-Dodecane)	mg/kg	0.114	NA	NA	0.200	NA	NA	NA	NA	NA	0.095	NA
n-C13 (n-Tridecane)	mg/kg	0.228	NA	NA	0.098	NA	NA	NA	NA	NA	0.049	NA
n-C14 (n-Tetradecane)	mg/kg	0.248	NA	NA	0.274	NA	NA	NA	NA	NA	0.171	NA
n-C15 (Pentadecane)	mg/kg	1.27	NA	NA	0.203	NA	NA	NA	NA	NA	0.480	NA
n-C16 (n-Hexadecane)	mg/kg	0.353	NA	NA	0.199	NA	NA	NA	NA	NA	0.224	NA
n-C17 (Heptadecane)	mg/kg	1.90	NA	NA	1.349	NA	NA	NA	NA	NA	0.467	NA
n-C18 (Octadecane)	mg/kg	2.48	NA	NA	1.650	NA	NA	NA	NA	NA	1.088	NA
n-C19 (Nonadecane)	mg/kg	2.13	NA	NA	1.531	NA	NA	NA	NA	NA	0.693	NA
n-C20 (Eicosane)	mg/kg	0.325	NA	NA	0.143	NA	NA	NA	NA	NA	0.177	NA
n-C21 (Heneicosane)	mg/kg	5.58	NA	NA	5.639	NA	NA	NA	NA	NA	3.344	NA
n-C22 (Docosane)	mg/kg	0.760	NA	NA	0.450	NA	NA	NA	NA	NA	0.301	NA
n-C23 (Tricosane)	mg/kg	12.7	NA	NA	4.571	NA	NA	NA	NA	NA	3.579	NA
n-C24 (Tetracosane)	mg/kg	1.46	NA	NA	0.823	NA	NA	NA	NA	NA	0.493	NA
n-C25 (Pentacosane)	mg/kg	8.51	NA	NA	4.257	NA	NA	NA	NA	NA	3.148	NA
n-C26 (Hexacosane)	mg/kg	0.861	NA	NA	1.765	NA	NA	NA	NA	NA	0.460	NA
n-C27 (Heptacosane)	mg/kg	8.66	NA	NA	5.974	NA	NA	NA	NA	NA	4.474	NA
n-C28 (Octacosane)	mg/kg	1.07	NA	NA	1.328	NA	NA	NA	NA	NA	1.119	NA
n-C29 (Nonacosane)	mg/kg	11.5	NA	NA	8.618	NA	NA	NA	NA	NA	5.050	NA
n-C30 (n-Triacontane)	mg/kg	0.572	NA	NA	1.336	NA	NA	NA	NA	NA	0.895	NA
n-C31 (Hentriacontane)	mg/kg	9.29	NA	NA	15.071	NA	NA	NA	NA	NA	6.956	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-020	SED-DA-020	SED-DA-020	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-021	SED-DA-022	SED-DA-022
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.3 ft	0-0.5 ft	0.5-1 ft
Sample Date		7/30/2013	7/30/2013	7/30/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/9/2013	8/16/2013	8/16/2013
Sample ID		SED-DA-020(0.0-0.5)	SED-DA-020(0.5-1.0)	SED-DA-020(1.0-1.5)	SED-DA-021(0.0-0.5)	SED-DA-021(0.5-1.0)	SED-DA-021(1.0-1.5)	SED-DA-021(1.5-2.0)	SED-DA-021(2.0-3.0)	SED-DA-021(3.0-3.3)	SED-DA-022(0.0-0.5)	SED-DA-022(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	0.928	NA	NA	0.876	NA	NA	NA	NA	NA	2.271	NA
n-C33	mg/kg	7.49	NA	NA	17.344	NA	NA	NA	NA	NA	14.110	NA
n-C34 (Tetratriacontane)	mg/kg	0.712	NA	NA	0.717	NA	NA	NA	NA	NA	1.235	NA
n-C35	mg/kg	3.75	NA	NA	8.906	NA	NA	NA	NA	NA	20.656	NA
n-C36 (Hexatriacontane)	mg/kg	0.734	NA	NA	0.450	NA	NA	NA	NA	NA	0.780	NA
n-C37	mg/kg	3.73	NA	NA	2.818	NA	NA	NA	NA	NA	1.823	NA
n-C38 (Octatriacontane)	mg/kg	0.707	NA	NA	0.381	NA	NA	NA	NA	NA	0.289	NA
n-C39 (Nonatriacontane)	mg/kg	2.30	NA	NA	1.138	NA	NA	NA	NA	NA	0.730	NA
n-C40 (Tetracontane)	mg/kg	--	NA	NA	0.145	NA	NA	NA	NA	NA	0.191	NA
n-C9 (Nonane)	mg/kg	0.020	NA	NA	--	NA	NA	NA	NA	NA	--	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	1.49	NA	NA	0.765	NA	NA	NA	NA	NA	0.357	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	1.02	NA	NA	0.326	NA	NA	NA	NA	NA	0.244	NA
Total Alkanes	mg/kg	94.1	NA	NA	89.8	NA	NA	NA	NA	NA	76.3	NA
Total Petroleum Hydrocarbons	mg/kg	2225	NA	NA	1548	NA	NA	NA	NA	NA	959	NA
Total Resolveable Hydrocarbons	mg/kg	1091	NA	NA	857	NA	NA	NA	NA	NA	536	NA
Unresolved Complex Mixture	mg/kg	1133	NA	NA	691	NA	NA	NA	NA	NA	423	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	8 J	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	8 J	--
2-Butanone (MEK)	ug/kg	54 J	--	--	27 J	--	--	--	--	--	42 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	370	290	17 J	180	17 J	--	--	--	--	250	14 J
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	23 J	3 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-022	SED-DA-022	SED-DA-022	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-024	SED-DA-024
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.09 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-022(1.0-1.5)	SED-DA-022(1.5-2.0)	SED-DA-022(2.0-3.0)	SED-DA-023(0.0-0.5)	SED-DA-023(0.5-1.0)	SED-DA-023(1.0-1.5)	SED-DA-023(1.5-2.0)	SED-DA-023(2.0-3.0)	SED-DA-023(3.0-3.1)	SED-DA-024(0.0-0.5)	SED-DA-024(0.5-1.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	3.62	NA	NA	14.0	17.0	3.89	NA	NA	NA	3.81 J	5.24 J
Barium	mg/kg	74.4	NA	NA	177	263	96.5	NA	NA	NA	104	263
Cadmium	mg/kg	--	NA	NA	--	--	--	NA	NA	NA	--	--
Chromium	mg/kg	11.6	NA	NA	23.6	35.3	14.0	NA	NA	NA	13.3 J	34.8 J
Lead	mg/kg	11.8	NA	NA	32.8	51.2	13.7	NA	NA	NA	17.8	37.4
Mercury	mg/kg	0.0256 J	NA	NA	0.0839 J	0.123 J	0.0351 J	NA	NA	NA	0.0528 J	--
Nickel	mg/kg	7.83	NA	NA	26.4	34.2	9.86	NA	NA	NA	11.9	29.2
Selenium	mg/kg	--	NA	NA	--	--	--	NA	NA	NA	--	--
Silver	mg/kg	--	NA	NA	--	--	--	NA	NA	NA	--	--
Vanadium	mg/kg	20.5	NA	NA	36.3	55.6	22.9	NA	NA	NA	22.5	59.3
Other												
Black Carbon	%	NA	NA	NA	0.42 J	NA	NA	NA	NA	NA	--	NA
Percent Moisture	%	24.5	24.9	18.7	85.2	81.4	24.4	26.8	24.0	17.8	56.1	71.3
Total Organic Carbon	%	NA	NA	NA	13.3	NA	NA	NA	NA	NA	3.23	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	0.236 J	0.139 J	0.173 J	18.6	6.30	0.959	0.349 J	--	0.292 J	7.96	1.10
2-Methylnaphthalene	ug/kg	0.544 J	0.351 J	0.296 J	37.6	13.6	1.97	0.664 J	0.345 J	0.529 J	13.6	2.40
Acenaphthene	ug/kg	0.50	--	--	8.68	3.65	0.569	--	--	--	1.73	0.62
Acenaphthylene	ug/kg	0.04	--	--	20.0	3.42	0.350	--	--	--	4.75	0.40
Anthracene	ug/kg	--	--	--	34.8	5.10	0.325	--	--	--	8.09	1.03
Benzo(a)Anthracene	ug/kg	0.154 J	--	--	27.8	5.49	0.536	--	--	--	10.2	1.08
Benzo(a)Pyrene	ug/kg	0.167	--	--	32.3	5.00	0.512	--	--	--	9.25	1.02
Benzo(b)Fluoranthene	ug/kg	0.330	--	--	124	27.3	2.74	--	--	--	41.4	3.67
Benzo(g,h,i)Perylene	ug/kg	0.276	--	--	152	23.2	0.837	--	0.076 J	--	28.6	1.74
Benzo(j)+(k)Fluoranthene	ug/kg	0.126	--	--	39.8	6.06	0.765	--	--	--	11.0	0.818
Chrysene/Triphenylene	ug/kg	0.274	--	--	72.4	15.4	2.26	--	--	--	21.2	3.06
Dibenz(a,h)Anthracene	ug/kg	0.300	--	--	19.0	3.62	0.428	--	0.053 J	--	10.5	0.619
Fluoranthene	ug/kg	1.66	1.00	0.971	78.8	21.0	3.18	2.56	1.83	1.98	33.9	6.48
Fluorene	ug/kg	2.81	1.53	1.84	47.9	22.1	5.54	4.33	3.18	4.33	8.50	3.36
Indeno[1,2,3-cd]pyrene	ug/kg	0.345	--	--	106	15.0	1.07	--	0.063	--	23.1	1.54
Naphthalene	ug/kg	1.03	--	--	38.0	12.8	2.83	1.13	--	0.90	5.68	1.87
Phenanthrene	ug/kg	9.46	5.42	6.72	116	55.3	15.3	13.2	12.4	14.3	36.6	16.2
Pyrene	ug/kg	0.719	0.384	0.303	71.4	12.9	1.67	0.668	--	0.366	26.1	3.41
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	0.219	--	--	60.8	13.3	1.04	--	--	--	21.5	2.20
C1-Chrysenes	ug/kg	--	--	--	128	45.5	--	--	--	--	78.8	--
C1-Fluoranthenes/Pyrenes	ug/kg	0.361 J	0.312 J	--	100	18.4	1.61	--	--	--	40.8	4.31
C1-Fluorenes	ug/kg	1.41	0.952	0.974	40.9	11.4	2.56	2.18	1.52	2.23	17.9	2.94
C1-Phenanthrenes/Anthracenes	ug/kg	4.96	--	--	841	26.3	6.60	5.50	6.12	5.86	56.0	9.93
C2-Chrysenes	ug/kg	--	--	--	116	25.4	--	--	--	--	43.3	--
C2-Fluorenes	ug/kg	--	--	--	164	28.6	--	--	--	--	51.3	9.70
C2-Naphthalenes	ug/kg	1.61	1.69	1.06	104	33.0	4.94	2.47	1.08	1.99	43.0	5.57
C2-Phenanthrenes/Anthracenes	ug/kg	--	--	--	277	33.0	--	--	--	--	92.9	14.7
C3-Chrysenes	ug/kg	--	--	--	99.3	22.8	--	--	--	--	33.3	--
C3-Fluorenes	ug/kg	--	--	--	176	28.9	--	--	--	--	60.1	12.2
C3-Naphthalenes	ug/kg	3.19	--	--	144	43.5	6.21	--	--	--	61.1	7.83
C3-Phenanthrenes/Anthracenes	ug/kg	--	--	--	305	35.7	--	--	--	--	113	9.83
C4-Chrysenes	ug/kg	--	--	--	--	15.6	--	--	--	--	33.0	--
C4-Naphthalenes	ug/kg	--	--	--	177	28.2	6.27	--	--	--	60.3	--
C4-Phenanthrenes/Anthracenes	ug/kg	--	--	--	247	28.3	--	--	--	--	92.4	9.76
Perylene	ug/kg	25.4	14.7	0.263 J	230	640 EJ	116	14.7	0.690 J	0.17 J	365	49.1
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	223	NA	NA	NA	NA	NA	21.1	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	11.9	NA	NA	NA	NA	NA	4.86	NA
18a-Oleanane	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	41.0	NA	NA	NA	NA	NA	13.8	NA
1-Methylfluorene	ug/kg	NA	NA	NA	29.6	NA	NA	NA	NA	NA	11.0	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	216	NA	NA	NA	NA	NA	13.5	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	17.0	NA	NA	NA	NA	NA	6.19	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	44.5	NA	NA	NA	NA	NA	20.9	NA
2-Methylanthracene	ug/kg	NA	NA	NA	217	NA	NA	NA	NA	NA	7.07	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	9.71	NA	NA	NA	NA	NA	4.64	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	10.6	NA	NA	NA	NA	NA	7.10	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	242	NA	NA	NA	NA	NA	15.3	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	64.2	NA	NA	NA	NA	NA	27.2	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	240	NA	NA	NA	NA	NA	21.2	NA

Location		SED-DA-022	SED-DA-022	SED-DA-022	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-024	SED-DA-024
Depths (ft)		1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.09 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	7/30/2013	7/30/2013
Sample ID		SED-DA-022(1.0-1.5)	SED-DA-022(1.5-2.0)	SED-DA-022(2.0-3.0)	SED-DA-023(0.0-0.5)	SED-DA-023(0.5-1.0)	SED-DA-023(1.0-1.5)	SED-DA-023(1.5-2.0)	SED-DA-023(2.0-3.0)	SED-DA-023(3.0-3.1)	SED-DA-024(0.0-0.5)	SED-DA-024(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	6.65	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	19.4	NA	NA	NA	NA	NA	8.02	NA
Benzothiophene	ug/kg	NA	NA	NA	1.85	NA	NA	NA	NA	NA	0.864	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C1-Decalins	ug/kg	NA	NA	NA	22.4	NA	NA	NA	NA	NA	--	NA
C1-Dibenzothiophenes	ug/kg	--	--	--	108	11.9	--	--	--	--	54.5	4.47
C1-Naphthalenes	ug/kg	0.521 J	0.327 J	0.311 J	36.5	13.3	1.95	0.674 J	0.366 J	0.55 J	12.9	2.10
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	144	NA	NA	NA	NA	NA	47.1	NA
C20-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C21-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C29-Hopane	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C2-Decalins	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C2-Dibenzothiophenes	ug/kg	--	--	--	272	27.5	--	--	--	--	111	8.20
C2-Fluoranthenes/Pyrenes	ug/kg	--	--	--	146	28.3	--	--	--	--	62.3	--
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	223	NA	NA	NA	NA	NA	87.4	NA
C30-Hopane	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C3-Decalins	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C3-Dibenzothiophenes	ug/kg	--	--	--	282	39.6	--	--	--	--	121	11.7
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	--	107	21.3	--	--	--	--	39.6	--
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	213	NA	NA	NA	NA	NA	72.9	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C4-Decalins	ug/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
C4-Dibenzothiophenes	ug/kg	--	--	--	261	39.6	0.531	--	--	--	116	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	108	25.2	--	--	--	--	64.1	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	108	NA	NA	NA	NA	NA	33.9	NA
Carbazole	ug/kg	NA	NA	NA	13.0	NA	NA	NA	NA	NA	6.88	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	64.9	NA	NA	NA	NA	NA	15.1	NA
Dibenzofuran	ug/kg	NA	NA	NA	29.3	NA	NA	NA	NA	NA	5.29	NA
Dibenzothiophene	ug/kg	--	--	--	34.7	6.22	--	--	--	--	21.2	1.97
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	30.1	NA	NA	NA	NA	NA	19.1	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	55.6	NA	NA	NA	NA	NA	23.1	NA
Retene	ug/kg	NA	NA	NA	19.3	NA	NA	NA	NA	NA	11.1	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	NA	6329	NA	NA	NA	NA	NA	2244	NA
i-C15	mg/kg	NA	NA	NA	0.127	NA	NA	NA	NA	NA	0.051	NA
i-C16	mg/kg	NA	NA	NA	0.495	NA	NA	NA	NA	NA	0.243	NA
i-C18	mg/kg	NA	NA	NA	0.130	NA	NA	NA	NA	NA	0.087	NA
n-C10 (n-Decane)	mg/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	0.010 J	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	NA	0.055	NA	NA	NA	NA	NA	0.020	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	NA	0.168	NA	NA	NA	NA	NA	0.024	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	NA	0.101 J	NA	NA	NA	NA	NA	0.039 J	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	NA	0.293	NA	NA	NA	NA	NA	0.074	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	NA	0.949	NA	NA	NA	NA	NA	1.03	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	NA	0.390	NA	NA	NA	NA	NA	0.115	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	NA	1.258	NA	NA	NA	NA	NA	0.510	NA
n-C18 (Octadecane)	mg/kg	NA	NA	NA	2.142	NA	NA	NA	NA	NA	1.02	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	NA	1.768	NA	NA	NA	NA	NA	0.671	NA
n-C20 (Eicosane)	mg/kg	NA	NA	NA	0.447	NA	NA	NA	NA	NA	0.187	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	NA	4.919	NA	NA	NA	NA	NA	2.57	NA
n-C22 (Docosane)	mg/kg	NA	NA	NA	0.671	NA	NA	NA	NA	NA	0.252	NA
n-C23 (Tricosane)	mg/kg	NA	NA	NA	15.096	NA	NA	NA	NA	NA	2.45	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	NA	1.232	NA	NA	NA	NA	NA	0.374	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	NA	10.154	NA	NA	NA	NA	NA	1.89	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	NA	1.014	NA	NA	NA	NA	NA	0.253	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	NA	12.193	NA	NA	NA	NA	NA	2.54	NA
n-C28 (Octacosane)	mg/kg	NA	NA	NA	2.160	NA	NA	NA	NA	NA	0.638	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	NA	12.368	NA	NA	NA	NA	NA	4.57	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	NA	0.454	NA	NA	NA	NA	NA	0.313	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	NA	16.471	NA	NA	NA	NA	NA	4.22	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-022	SED-DA-022	SED-DA-022	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-023	SED-DA-024	SED-DA-024
Depths (ft)		1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.09 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	8/16/2013	7/30/2013	7/30/2013
Sample ID		SED-DA-022(1.0-1.5)	SED-DA-022(1.5-2.0)	SED-DA-022(2.0-3.0)	SED-DA-023(0.0-0.5)	SED-DA-023(0.5-1.0)	SED-DA-023(1.0-1.5)	SED-DA-023(1.5-2.0)	SED-DA-023(2.0-3.0)	SED-DA-023(3.0-3.1)	SED-DA-024(0.0-0.5)	SED-DA-024(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	NA	NA	NA	1.140	NA	NA	NA	NA	NA	0.511	NA
n-C33	mg/kg	NA	NA	NA	17.618	NA	NA	NA	NA	NA	3.81	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	NA	1.903	NA	NA	NA	NA	NA	0.587	NA
n-C35	mg/kg	NA	NA	NA	5.238	NA	NA	NA	NA	NA	1.68	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	NA	0.432	NA	NA	NA	NA	NA	0.288	NA
n-C37	mg/kg	NA	NA	NA	2.071	NA	NA	NA	NA	NA	1.15	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	NA	0.795	NA	NA	NA	NA	NA	0.200	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	NA	2.333	NA	NA	NA	NA	NA	0.369	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	NA	0.131	NA	NA	NA	NA	NA	--	NA
n-C9 (Nonane)	mg/kg	NA	NA	NA	--	NA	NA	NA	NA	NA	--	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	NA	0.991	NA	NA	NA	NA	NA	0.421	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	NA	0.632	NA	NA	NA	NA	NA	0.307	NA
Total Alkanes	mg/kg	NA	NA	NA	118	NA	NA	NA	NA	NA	33.5	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	2275	NA	NA	NA	NA	NA	770	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	NA	1140	NA	NA	NA	NA	NA	404	NA
Unresolved Complex Mixture	mg/kg	NA	NA	NA	1135	NA	NA	NA	NA	NA	366	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	9 J
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	10 J
2-Butanone (MEK)	ug/kg	--	--	--	39 J	--	--	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	--	--	--	270	150	13 J	9 J	--	--	41 J	120
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	5 J	4 J	6 J	19 J	15 J	3 J	3 J	2 J	2 J	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-024	SED-DA-024	SED-DA-024	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-026	SED-DA-026	SED-DA-026	SED-DA-026
	Depths (ft)	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft
	Sample Date	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
	Sample ID	SED-DA-024(1.0-1.5)	SED-DA-024(1.5-2.0)	SED-DA-024(2.0-3.0)	SED-DA-025(0.0-0.5)	SED-DA-DUP-02-073013FD	SED-DA-025(0.5-1.0)	SED-DA-025(1.0-1.5)	SED-DA-026(0.0-0.5)	SED-DA-026(0.5-1.0)	SED-DA-026(1.0-1.5)	SED-DA-026(1.5-2.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	7.66 J	NA	NA	16.3	17.6 J	3.82	2.24 J	17.1 J	20.2	7.25	NA
Barium	mg/kg	241	NA	NA	258	241	106	89.0	267	539	198	NA
Cadmium	mg/kg	--	NA	NA	1.99 J	--	--	--	--	0.790 J	0.211 J	NA
Chromium	mg/kg	33.0 J	NA	NA	36.5 J	33.5 J	16.1 J	12.5 J	38.9 J	84.4 J	33.7 J	NA
Lead	mg/kg	41.1	NA	NA	68.5	55.7	19.0	15.6	71.5	103	33.9	NA
Mercury	mg/kg	0.130 J	NA	NA	0.152 J	0.196 J	0.0395 J	0.0531 J	0.184 J	0.146 J	0.788	NA
Nickel	mg/kg	31.1	NA	NA	36.0	33.6	11.4	8.17	34.8	74.0	28.5	NA
Selenium	mg/kg	--	NA	NA	--	--	--	--	--	--	--	NA
Silver	mg/kg	--	NA	NA	--	--	--	--	--	--	--	NA
Vanadium	mg/kg	52.7	NA	NA	58.7	54.7	27.1	21.3	64.0	135	52.4	NA
Other												
Black Carbon	%	NA	NA	NA	0.32 J	0.36 J	NA	NA	0.3 J	NA	NA	NA
Percent Moisture	%	80.9	77.8	83.4	84.9	89.3	47.5	36.5	89.2	87.1	63.3	42.0
Total Organic Carbon	%	NA	NA	NA	8.11	13.4	NA	NA	12.5	NA	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	15.2	NA	NA	5.33	6.64	3.05	1.14	6.62	4.75	4.87	NA
2-Methylnaphthalene	ug/kg	27.2	NA	NA	13.1	16.6	6.33	2.40	18.4	12.1	12.4	NA
Acenaphthene	ug/kg	3.06	NA	NA	1.54	8.73	1.10	0.465	8.16	4.01	3.78	NA
Acenaphthylene	ug/kg	5.52	NA	NA	5.21	13.6	2.15	0.373	11.8	2.35	2.14	NA
Anthracene	ug/kg	11.4	NA	NA	12.4	32.9	5.13	0.634	26.1	5.67	5.29	NA
Benzo(a)Anthracene	ug/kg	11.0	NA	NA	12.2	20.6	4.22	1.04	24.9	6.98	7.60	NA
Benzo(a)Pyrene	ug/kg	15.5	NA	NA	16.1	28.0	4.76	--	30.9	7.63	6.35	NA
Benzo(b)Fluoranthene	ug/kg	49.4	NA	NA	57.7	97	17.2	4.23	114	32.6	31.0	NA
Benzo(g,h,i)Perylene	ug/kg	35.3	NA	NA	59.9	69.3 J	10.7	--	145 J	18.0	16.8	NA
Benzo(j)+(k)Fluoranthene	ug/kg	20.3	NA	NA	18.1	24.3	4.91	0.803	33.2	6.78	8.34	NA
Chrysene/Triphenylene	ug/kg	40.7	NA	NA	32.1	42.3	8.65	2.89	42.2	24.6	25.0	NA
Dibenz(a,h)Anthracene	ug/kg	5.71	NA	NA	8.41	8.17 J	2.67	--	14.5 J	4.81	4.34	NA
Fluoranthene	ug/kg	54.4	NA	NA	40.7	90.7	16.7	4.64	79.1	23.6	24.7	NA
Fluorene	ug/kg	22.1	NA	NA	15.9	28.0	10.9	3.32	22.3	12.0	11.2	NA
Indeno[1,2,3-cd]pyrene	ug/kg	22.9	NA	NA	39.5	30.3 J	10.9	--	60.3 J	11.3	10.9	NA
Naphthalene	ug/kg	11.7	NA	NA	10.5	15.1	6.21	2.99	18.5	10.0	8.18	NA
Phenanthrene	ug/kg	85.6	NA	NA	47.7	109	44.3	12.9	83.2	39.9	36.2	NA
Pyrene	ug/kg	39.1	NA	NA	35.6	49.8	12.4	3.19	72.2	20.7	21.2	NA
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	32.0	NA	NA	37.9	44.8	7.94	--	66.3	23.5	22.7	NA
C1-Chrysenes	ug/kg	87.3	NA	NA	119	80.6	31.4	--	130	99.2	88.7	NA
C1-Fluoranthenes/Pyrenes	ug/kg	69.9	NA	NA	52.8	55.5	10.8	3.03	58.5	39.0	43.6	NA
C1-Fluorenes	ug/kg	35.9	NA	NA	11.0	16.2	5.22	1.98	15.1	8.00	8.90	NA
C1-Phenanthrenes/Anthracenes	ug/kg	101	NA	NA	46.6	61.8	16.0	6.59	56.3	31.4	34.0	NA
C2-Chrysenes	ug/kg	68.7	NA	NA	104	52.3 J	16.8	--	110 J	99.1	104	NA
C2-Fluorenes	ug/kg	105	NA	NA	63.9	54.7	22.3	5.86	69.0	37.1	39.5	NA
C2-Naphthalenes	ug/kg	74.9	NA	NA	25.5	38.9	11.7	7.15	36.2	27.4	32.0	NA
C2-Phenanthrenes/Anthracenes	ug/kg	190	NA	NA	93.8	79.7	18.4	--	81.3	59.0	70.6	NA
C3-Chrysenes	ug/kg	60.2	NA	NA	90.9	34.7 J	17.1	--	92.5 J	80.4	87.0	NA
C3-Fluorenes	ug/kg	124	NA	NA	53.9	70.6	17.8	6.60	71.8	30.7	34.4	NA
C3-Naphthalenes	ug/kg	111	NA	NA	31.3	46.0	11.1	7.47	37.0	35.6	49.3	NA
C3-Phenanthrenes/Anthracenes	ug/kg	184	NA	NA	90.4	85.8	15.4	--	75.2	85.9	96.1	NA
C4-Chrysenes	ug/kg	53.4	NA	NA	72.8	--	13.4	--	109 J	49.8	46.7	NA
C4-Naphthalenes	ug/kg	116	NA	NA	17.6	37.3	10.9	--	26.0	28.3	30.8	NA
C4-Phenanthrenes/Anthracenes	ug/kg	175	NA	NA	96.1	61.4	14.4	--	80.7	71.9	87.6	NA
Perylene	ug/kg	212	NA	NA	297	567	396	625	790	375	314	NA
Phenanthrene, 2-methyl-	ug/kg	NA	NA	NA	13.9	16.5 J	NA	NA	16.7	NA	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	NA	4.17	7.33	NA	NA	7.44	NA	NA	NA
18a-Oleanane	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	NA	4.00	3.31	NA	NA	4.00	NA	NA	NA
1-Methylfluorene	ug/kg	NA	NA	NA	5.13	10.3	NA	NA	8.24	NA	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	NA	7.96	10.5	NA	NA	11.1	NA	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	NA	5.00	8.90	NA	NA	5.24 J	NA	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	NA	11.6	10.2	NA	NA	11.5	NA	NA	NA
2-Methylanthracene	ug/kg	NA	NA	NA	19.8	13.2	NA	NA	20.1	NA	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	NA	6.57	6.26	NA	NA	8.72	NA	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	NA	7.01	5.94	NA	NA	5.84	NA	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	NA	14.5	16.9	NA	NA	16.4	NA	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	NA	11.9	12.1	NA	NA	13.3	NA	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	NA	8.76	14.8	NA	NA	14.1	NA	NA	NA

Location		SED-DA-024	SED-DA-024	SED-DA-024	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-026	SED-DA-026	SED-DA-026	SED-DA-026
Depths (ft)		1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft
Sample Date		7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
Sample ID		SED-DA-024(1.0-1.5)	SED-DA-024(1.5-2.0)	SED-DA-024(2.0-3.0)	SED-DA-025(0.0-0.5)	SED-DA-DUP-02-073013FD	SED-DA-025(0.5-1.0)	SED-DA-025(1.0-1.5)	SED-DA-026(0.0-0.5)	SED-DA-026(0.5-1.0)	SED-DA-026(1.0-1.5)	SED-DA-026(1.5-2.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	NA	NA	NA	27.7	27.9	NA	NA	--	NA	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	NA	10.6	12.1	NA	NA	16.4	NA	NA	NA
Benzothiophene	ug/kg	NA	NA	NA	--	--	NA	NA	2.11 J	NA	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C1-Decalins	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C1-Dibenzothiophenes	ug/kg	98.1	NA	NA	24.2	20.2	4.63	1.86	25.2	20.1	22.2	NA
C1-Naphthalenes	ug/kg	25.3	NA	NA	11.1	14.7	5.62	2.12	15.0	10.1	10.4	NA
C1-Naphthobenzothiophenes	ug/kg	NA	NA	NA	107	60.9	NA	NA	73.4	NA	NA	NA
C20-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C21-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C29-Hopane	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C2-Decalins	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C2-Dibenzothiophenes	ug/kg	200	NA	NA	62.0	41.7	8.97	2.09	49.5	48.4	52.7	NA
C2-Fluoranthenes/Pyrenes	ug/kg	134	NA	NA	140	122	22.8	--	107	93.7	90.5	NA
C2-Naphthobenzothiophenes	ug/kg	NA	NA	NA	213	92.1	NA	NA	152	NA	NA	NA
C30-Hopane	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C3-Decalins	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C3-Dibenzothiophenes	ug/kg	243	NA	NA	129	49.9	14.1	2.20	63.1	83.5	95.1	NA
C3-Fluoranthenes/Pyrenes	ug/kg	93.7	NA	NA	79.6	59.8	11.7	--	56.3	82.7	75.7	NA
C3-Naphthobenzothiophenes	ug/kg	NA	NA	NA	209	91.6	NA	NA	147	NA	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C4-Decalins	ug/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
C4-Dibenzothiophenes	ug/kg	202	NA	NA	112	62.2	15.5	1.97	71.6	96.1	114	NA
C4-Fluoranthenes/Pyrenes	ug/kg	95.8	NA	NA	106	54.2 J	24.5	--	105 J	92.4	82.6	NA
C4-Naphthobenzothiophenes	ug/kg	NA	NA	NA	110	35.4 J	NA	NA	72.2 J	NA	NA	NA
Carbazole	ug/kg	NA	NA	NA	4.32	7.18	NA	NA	11.4	NA	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	NA	57.2	87.5	NA	NA	82.3	NA	NA	NA
Dibenzofuran	ug/kg	NA	NA	NA	7.35	15.8	NA	NA	14.2	NA	NA	NA
Dibenzothiophene	ug/kg	39.5	NA	NA	12.3	15.6	4.40	1.51	17.9	9.39	9.98	NA
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	NA	12.8	21.0	NA	NA	19.3	NA	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	NA	26.2	21.9	NA	NA	26.5	NA	NA	NA
Retene	ug/kg	NA	NA	NA	8.65	13.1	NA	NA	15.3	NA	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	NA	4821	6627	NA	NA	6573	NA	NA	NA
i-C15	mg/kg	NA	NA	NA	0.043 J	0.041	NA	NA	0.053	NA	NA	NA
i-C16	mg/kg	NA	NA	NA	0.209	0.138	NA	NA	0.179	NA	NA	NA
i-C18	mg/kg	NA	NA	NA	0.038	0.087	NA	NA	0.055	NA	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	NA	0.009 J	0.015 J	NA	NA	0.104 J	NA	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	NA	0.024 J	0.030	NA	NA	0.030 J	NA	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	NA	0.017 J	0.066	NA	NA	0.027 J	NA	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	NA	0.037 J	0.060	NA	NA	0.051 J	NA	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	NA	0.060	0.128 J	NA	NA	0.055 J	NA	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	NA	0.523	0.860	NA	NA	0.902	NA	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	NA	0.076	0.206 J	NA	NA	0.097 J	NA	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	NA	0.219	0.442	NA	NA	0.384	NA	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	NA	1.37	1.985	NA	NA	1.65	NA	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	NA	1.45	1.811	NA	NA	1.80	NA	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	NA	0.241	0.466	NA	NA	0.410	NA	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	NA	5.65	5.189	NA	NA	6.17	NA	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	NA	0.430	0.643	NA	NA	0.594	NA	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	NA	8.69	6.179	NA	NA	9.16	NA	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	NA	0.958	1.226	NA	NA	1.19	NA	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	NA	5.79	6.543	NA	NA	6.57	NA	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	NA	0.608	0.631	NA	NA	0.624	NA	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	NA	6.90	7.425	NA	NA	7.37	NA	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	NA	0.596	0.725	NA	NA	0.719	NA	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	NA	7.48	8.765	NA	NA	9.52	NA	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	NA	0.252	0.417	NA	NA	0.446	NA	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	NA	4.70	11.120	NA	NA	9.18	NA	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-024	SED-DA-024	SED-DA-024	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-025	SED-DA-026	SED-DA-026	SED-DA-026	SED-DA-026
Depths (ft)		1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft
Sample Date		7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013	7/30/2013
Sample ID		SED-DA-024(1.0-1.5)	SED-DA-024(1.5-2.0)	SED-DA-024(2.0-3.0)	SED-DA-025(0.0-0.5)	SED-DA-DUP-02-073013FD	SED-DA-025(0.5-1.0)	SED-DA-025(1.0-1.5)	SED-DA-026(0.0-0.5)	SED-DA-026(0.5-1.0)	SED-DA-026(1.0-1.5)	SED-DA-026(1.5-2.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	NA	NA	NA	0.591	1.141 J	NA	NA	0.316 J	NA	NA	NA
n-C33	mg/kg	NA	NA	NA	3.62	8.700	NA	NA	7.99	NA	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	NA	0.868	1.184 J	NA	NA	0.480 J	NA	NA	NA
n-C35	mg/kg	NA	NA	NA	2.89	9.146 J	NA	NA	4.07 J	NA	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	NA	0.293	0.806 J	NA	NA	0.379 J	NA	NA	NA
n-C37	mg/kg	NA	NA	NA	2.16	2.642	NA	NA	3.00	NA	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	NA	0.323	0.655	NA	NA	0.547	NA	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	NA	1.24	1.641	NA	NA	1.49	NA	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	NA	--	--	NA	NA	--	NA	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	NA	0.492	0.849	NA	NA	0.804	NA	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	NA	0.226	0.570	NA	NA	0.492	NA	NA	NA
Total Alkanes	mg/kg	NA	NA	NA	59.1	82.5	NA	NA	76.9	NA	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	NA	1578	1774	NA	NA	2173	NA	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	NA	834	940	NA	NA	1000	NA	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	NA	744	834	NA	NA	1173	NA	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	18 J	7 J	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	20 J	7 J	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	26 J	60 J	--	--	--	--	160	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	190	150	340	230	320	25 J	19 J	920	230	52 J	36 J
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	14 J	--	--	--	20 J	4 J	2 J
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-026	SED-DA-026	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-028	SED-DA-028	SED-DA-028
Depths (ft)		2-3 ft	3-3.4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		7/30/2013	7/30/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013
Sample ID		SED-DA-026(2.0-3.0)	SED-DA-026(3.0-3.4)	SED-DA-027(0.0-0.5)	SED-DA-027(0.5-1.0)	SED-DA-027(1.0-1.5)	SED-DA-027(1.5-2.0)	SED-DA-027(2.0-3.0)	SED-DA-027(3.0-3.6)	SED-DA-028(0.0-0.5)	SED-DA-028(0.5-1.0)	SED-DA-028(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	NA	NA	6.17	7.60	3.27	NA	NA	NA	5.20 J	4.05	2.65 J
Barium	mg/kg	NA	NA	127	148	115	NA	NA	NA	84.2	97.6	82.0
Cadmium	mg/kg	NA	NA	--	--	--	NA	NA	NA	--	0.174 J	--
Chromium	mg/kg	NA	NA	19.6	22.8	18.9	NA	NA	NA	11.4	13.8	15.8
Lead	mg/kg	NA	NA	20.1	27.2	17.5	NA	NA	NA	19.1	23.3	14.9
Mercury	mg/kg	NA	NA	0.0535 J	0.0481 J	0.0344 J	NA	NA	NA	--	0.0431 J	0.0300 J
Nickel	mg/kg	NA	NA	14.6	17.8	12.0	NA	NA	NA	10.6	11.1	9.59
Selenium	mg/kg	NA	NA	--	--	--	NA	NA	NA	--	--	--
Silver	mg/kg	NA	NA	--	--	--	NA	NA	NA	--	--	--
Vanadium	mg/kg	NA	NA	32.0	36.7	32.3	NA	NA	NA	18.2	23.9	26.6
Other												
Black Carbon	%	NA	NA	--	NA	NA	NA	NA	NA	0.21 J	NA	NA
Percent Moisture	%	29.9	21.4	67.7	71.6	33.6	24.0	26.2	23.7	65.9	43.6	29.4
Total Organic Carbon	%	NA	NA	5.35	NA	NA	NA	NA	NA	8.65 J	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	NA	NA	1.68	3.97	1.60	NA	NA	NA	5.93	2.34	0.838
2-Methylnaphthalene	ug/kg	NA	NA	3.89	9.21	3.62	NA	NA	NA	12.2	5.29	1.80
Acenaphthene	ug/kg	NA	NA	1.57	1.85	0.655	NA	NA	NA	7.58	2.51	0.63
Acenaphthylene	ug/kg	NA	NA	3.48	5.02	1.07	NA	NA	NA	65.22	9.19	0.79
Anthracene	ug/kg	NA	NA	6.65 J	12.39 J	2.03	NA	NA	NA	115.96 J	12.27 J	1.23 J
Benzo(a)Anthracene	ug/kg	NA	NA	12.90	19.71	3.35	NA	NA	NA	171.95	44.98	2.65
Benzo(a)Pyrene	ug/kg	NA	NA	7.12	13.44	3.12	NA	NA	NA	123.60	16.71	--
Benzo(b)Fluoranthene	ug/kg	NA	NA	25.15	66.37	10.1	NA	NA	NA	385.97	62.78	4.36
Benzo(g,h,i)Perylene	ug/kg	NA	NA	16.86	36.40	4.44	NA	NA	NA	87.72	14.04	--
Benzo(j)+(k)Fluoranthene	ug/kg	NA	NA	6.07	18.39	2.13	NA	NA	NA	142.21	12.35	1.28
Chrysene/Triphenylene	ug/kg	NA	NA	14.82	28.05	7.89	NA	NA	NA	191.05	41.44	3.66
Dibenz(a,h)Anthracene	ug/kg	NA	NA	28.39	48.84	13.4	NA	NA	NA	29.02	6.81	--
Fluoranthene	ug/kg	NA	NA	20.72	42.44	12.1	NA	NA	NA	252.66	50.82	3.84
Fluorene	ug/kg	NA	NA	5.69	16.93	4.95	NA	NA	NA	20.86	9.22	3.06
Indeno[1,2,3-cd]pyrene	ug/kg	NA	NA	10.33	13.51	4.29	NA	NA	NA	93.73	14.65	--
Naphthalene	ug/kg	NA	NA	4.11	8.16	3.97	NA	NA	NA	11.12	5.94	2.43
Phenanthrene	ug/kg	NA	NA	20.68	47.19	16.5	NA	NA	NA	103.97	28.98	7.59
Pyrene	ug/kg	NA	NA	21.69	36.81	7.86	NA	NA	NA	199.19	53.46	3.73
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	NA	NA	9.31	27.90	5.55	NA	NA	NA	151.56	24.27	--
C1-Chrysenes	ug/kg	NA	NA	42.17	101.16	24.7	NA	NA	NA	164.46	--	--
C1-Fluoranthenes/Pyrenes	ug/kg	NA	NA	15.54	39.13	9.67	NA	NA	NA	145.56	37.90	2.68
C1-Fluorenes	ug/kg	NA	NA	5.05	10.49	3.47	NA	NA	NA	10.69	4.75	1.40
C1-Phenanthrenes/Anthracenes	ug/kg	NA	NA	20.06	46.64	11.9	NA	NA	NA	80.24	26.44	5.95
C2-Chrysenes	ug/kg	NA	NA	24.93	77.43	18.4	NA	NA	NA	88.01	--	--
C2-Fluorenes	ug/kg	NA	NA	14.57	27.92	15.0	NA	NA	NA	48.20	11.25	2.04
C2-Naphthalenes	ug/kg	NA	NA	9.11	20.76	7.54	NA	NA	NA	29.42	10.79	3.51
C2-Phenanthrenes/Anthracenes	ug/kg	NA	NA	24.56	70.25	20.8	NA	NA	NA	84.71	28.37	6.40
C3-Chrysenes	ug/kg	NA	NA	15.08	53.31	14.9	NA	NA	NA	34.67	--	--
C3-Fluorenes	ug/kg	NA	NA	14.81	40.28	10.8	NA	NA	NA	26.49	14.34	--
C3-Naphthalenes	ug/kg	NA	NA	16.36	25.64	18.9	NA	NA	NA	--	15.63	7.14
C3-Phenanthrenes/Anthracenes	ug/kg	NA	NA	31.30	92.92	19.2	NA	NA	NA	83.36	18.66	2.01
C4-Chrysenes	ug/kg	NA	NA	12.88	28.82	10.4	NA	NA	NA	24.21	--	--
C4-Naphthalenes	ug/kg	NA	NA	10.79	22.78	10.8	NA	NA	NA	--	20.46	--
C4-Phenanthrenes/Anthracenes	ug/kg	NA	NA	33.85	72.06	15.1	NA	NA	NA	57.33	18.24	2.77
Perylene	ug/kg	NA	NA	291.88	373.54	164	NA	NA	NA	439.59	549.39	344.83
Phenanthrene, 2-methyl-	ug/kg	NA	NA	5.31	NA	NA	NA	NA	NA	22.4	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	2.24	NA	NA	NA	NA	NA	6.21	NA	NA
18a-Oleanane	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	1.23	NA	NA	NA	NA	NA	6.26	NA	NA
1-Methylfluorene	ug/kg	NA	NA	2.28	NA	NA	NA	NA	NA	6.64	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	3.75	NA	NA	NA	NA	NA	15.4	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	2.23	NA	NA	NA	NA	NA	3.87	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	4.10	NA	NA	NA	NA	NA	12.4	NA	NA
2-Methylanthracene	ug/kg	NA	NA	7.74	NA	NA	NA	NA	NA	25.8	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	2.78	NA	NA	NA	NA	NA	36.1	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	1.61	NA	NA	NA	NA	NA	6.04	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	6.27	NA	NA	NA	NA	NA	17.9	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	4.45	NA	NA	NA	NA	NA	14.7	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	3.86	NA	NA	NA	NA	NA	26.3	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-026	SED-DA-026	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-028	SED-DA-028	SED-DA-028
Depths (ft)		2-3 ft	3-3.4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		7/30/2013	7/30/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013
Sample ID		SED-DA-026(2.0-3.0)	SED-DA-026(3.0-3.4)	SED-DA-027(0.0-0.5)	SED-DA-027(0.5-1.0)	SED-DA-027(1.0-1.5)	SED-DA-027(1.5-2.0)	SED-DA-027(2.0-3.0)	SED-DA-027(3.0-3.6)	SED-DA-028(0.0-0.5)	SED-DA-028(0.5-1.0)	SED-DA-028(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	47.22	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	4.92	NA	NA	NA	NA	NA	35.9	NA	NA
Benzothiophene	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	1.23	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	2.00	NA	NA
C1-Decalins	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C1-Dibenzothiophenes	ug/kg	NA	NA	5.75	16.81	5.71	NA	NA	NA	19.64	5.18	0.78
C1-Naphthalenes	ug/kg	NA	NA	3.45	8.16	3.13	NA	NA	NA	11.19	4.72	1.63
C1-Naphthobenzothiophenes	ug/kg	NA	NA	24.33	NA	NA	NA	NA	NA	57.95	NA	NA
C20-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C21-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C29-Hopane	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	21.87	NA	NA
C2-Decalins	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	NA	NA	11.01	39.12	12.3	NA	NA	NA	34.52	7.96	0.78
C2-Fluoranthenes/Pyrenes	ug/kg	NA	NA	28.37	97.97	18.6	NA	NA	NA	119.03	30.77	--
C2-Naphthobenzothiophenes	ug/kg	NA	NA	38.50	NA	NA	NA	NA	NA	63.11	NA	NA
C30-Hopane	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	17.40	NA	NA
C3-Decalins	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	NA	NA	14.42	66.25	21.5	NA	NA	NA	43.16	11.72	1.21
C3-Fluoranthenes/Pyrenes	ug/kg	NA	NA	15.66	45.60	16.8	NA	NA	NA	79.04	18.39	--
C3-Naphthobenzothiophenes	ug/kg	NA	NA	37.05	NA	NA	NA	NA	NA	45.98	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	7.57	NA	NA
C4-Decalins	ug/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	NA	NA	19.42	76.44	15.1	NA	NA	NA	38.17	10.12	1.46
C4-Fluoranthenes/Pyrenes	ug/kg	NA	NA	17.37	57.67	19.6	NA	NA	NA	57.46	18.38	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	21.24	NA	NA	NA	NA	NA	30.08	NA	NA
Carbazole	ug/kg	NA	NA	2.48	NA	NA	NA	NA	NA	14.18	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	23.56	NA	NA	NA	NA	NA	46.61	NA	NA
Dibenzofuran	ug/kg	NA	NA	3.53	NA	NA	NA	NA	NA	14.77	NA	NA
Dibenzothiophene	ug/kg	NA	NA	3.57	8.01	2.87	NA	NA	NA	13.09	3.60	0.97
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	4.28	NA	NA	NA	NA	NA	15.2	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	11.61	NA	NA	NA	NA	NA	64.46	NA	NA
Retene	ug/kg	NA	NA	60.9	NA	NA	NA	NA	NA	35.4	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	1384	NA	NA	NA	NA	NA	4220	NA	NA
i-C15	mg/kg	NA	NA	0.008 J	NA	NA	NA	NA	NA	0.030 J	NA	NA
i-C16	mg/kg	NA	NA	0.042	NA	NA	NA	NA	NA	0.241	NA	NA
i-C18	mg/kg	NA	NA	0.015	NA	NA	NA	NA	NA	0.079	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.004 J	NA	NA	NA	NA	NA	0.005 J	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.010 J	NA	NA	NA	NA	NA	0.017 J	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.010 J	NA	NA	NA	NA	NA	0.015 J	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.015 J	NA	NA	NA	NA	NA	0.036 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.026	NA	NA	NA	NA	NA	0.051	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.210	NA	NA	NA	NA	NA	0.514	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.020	NA	NA	NA	NA	NA	0.054	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	0.059	NA	NA	NA	NA	NA	0.894	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	0.674	NA	NA	NA	NA	NA	1.30	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	0.430	NA	NA	NA	NA	NA	0.881	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.092	NA	NA	NA	NA	NA	0.246	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	1.65	NA	NA	NA	NA	NA	2.91	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.149	NA	NA	NA	NA	NA	0.363	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	1.96	NA	NA	NA	NA	NA	3.38	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.239	NA	NA	NA	NA	NA	0.336	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	1.67	NA	NA	NA	NA	NA	2.77	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	0.190	NA	NA	NA	NA	NA	0.361	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	3.15	NA	NA	NA	NA	NA	4.17	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.371	NA	NA	NA	NA	NA	0.852	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	3.66	NA	NA	NA	NA	NA	8.23	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.425	NA	NA	NA	NA	NA	1.13	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	4.19	NA	NA	NA	NA	NA	14.7	NA	NA

Location		SED-DA-026	SED-DA-026	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-027	SED-DA-028	SED-DA-028	SED-DA-028
Depths (ft)		2-3 ft	3-3.4 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	3-3.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		7/30/2013	7/30/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013
Sample ID		SED-DA-026(2.0-3.0)	SED-DA-026(3.0-3.4)	SED-DA-027(0.0-0.5)	SED-DA-027(0.5-1.0)	SED-DA-027(1.0-1.5)	SED-DA-027(1.5-2.0)	SED-DA-027(2.0-3.0)	SED-DA-027(3.0-3.6)	SED-DA-028(0.0-0.5)	SED-DA-028(0.5-1.0)	SED-DA-028(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	NA	NA	0.247	NA	NA	NA	NA	NA	1.59	NA	NA
n-C33	mg/kg	NA	NA	4.59	NA	NA	NA	NA	NA	19.9	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	0.588	NA	NA	NA	NA	NA	1.33	NA	NA
n-C35	mg/kg	NA	NA	3.44	NA	NA	NA	NA	NA	9.65	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.231	NA	NA	NA	NA	NA	0.665	NA	NA
n-C37	mg/kg	NA	NA	1.07	NA	NA	NA	NA	NA	2.14	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.121	NA	NA	NA	NA	NA	0.472	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.330	NA	NA	NA	NA	NA	0.721	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	--	NA	NA	NA	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	0.175	NA	NA	NA	NA	NA	0.840	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	0.086	NA	NA	NA	NA	NA	0.398	NA	NA
Total Alkanes	mg/kg	NA	NA	30.2	NA	NA	NA	NA	NA	81.2	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	393	NA	NA	NA	NA	NA	1296	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	309	NA	NA	NA	NA	NA	717	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	83	NA	NA	NA	NA	NA	579	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	--	--	--	--	--	--	13 J	7 J
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	17 J	10 J	69 J	44 J	14 J	9 J	--	--	65 J	63	36
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	2 J	--	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-030	SED-DA-030	SED-DA-030	SED-DA-031	SED-DA-031	SED-DA-031
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-029(0.0-0.5)	SED-DA-029(0.5-1.0)	SED-DA-029(1.0-1.5)	SED-DA-029(1.5-2.0)	SED-DA-029(2.0-3.0)	SED-DA-030(0.0-0.5)	SED-DA-030(0.5-1.0)	SED-DA-030(1.0-1.5)	SED-DA-031(0.0-0.5)	SED-DA-031(0.5-1.0)	SED-DA-031(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	20.8 J	4.15 J	2.35 J	NA	NA	6.87	1.92 J	1.92 J	5.21	12.2	5.99
Barium	mg/kg	511	143	109	NA	NA	125	89.5	71.0	132 J	305 J	179 J
Cadmium	mg/kg	--	--	--	NA	NA	--	--	--	--	0.275 J	0.170 J
Chromium	mg/kg	81.8	27.4	17.2	NA	NA	18.4	15.5	11.7	25.0 J	50.2 J	20.9 J
Lead	mg/kg	97.7	24.7	13.2	NA	NA	25.1	12.7	10.4	21.5 J	42.6 J	24.1 J
Mercury	mg/kg	0.155 J	0.0613 J	0.0243 J	NA	NA	0.0353 J	0.0209 J	0.0154 J	0.0278 J	0.0725 J	0.0648 J
Nickel	mg/kg	61.8	17.6	10.7	NA	NA	15.1	8.71	6.42	18.9 J	43.5 J	16.8 J
Selenium	mg/kg	--	--	--	NA	NA	--	--	--	--	--	--
Silver	mg/kg	--	--	--	NA	NA	--	--	--	--	--	--
Vanadium	mg/kg	137	44.6	28.9	NA	NA	32.6	25.7	19.8	37.2 J	79.3 J	40.7 J
Other												
Black Carbon	%	--	NA	NA	NA	NA	0.29 J	NA	NA	0.250 J	NA	NA
Percent Moisture	%	90.6	63.1	33.4	29.5	66.0	69.6	21.6	19.4	50.4	70.1	37.9
Total Organic Carbon	%	3.26	NA	NA	NA	NA	8.99	NA	NA	3.23	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	4.48	1.49	0.982	NA	NA	4.10	0.445 J	0.261 J	7.61	8.43	2.67
2-Methylnaphthalene	ug/kg	8.86	3.47	2.00	NA	NA	10.3	0.922 J	0.502 J	19.4	20.2	5.72
Acenaphthene	ug/kg	2.67	0.685	0.580	NA	NA	3.47	0.31	0.11	1.67	4.67	1.79
Acenaphthylene	ug/kg	3.02	0.797	0.449	NA	NA	8.77	0.17	0.07	4.44	4.18	1.82
Anthracene	ug/kg	5.33 J	1.28 J	0.828 J	NA	NA	19.56 J	0.32 J	--	10.2 J	5.71 J	2.61 J
Benzo(a)Anthracene	ug/kg	11.6	2.41	2.15	NA	NA	24.24	0.61	--	35.6	12.2	5.39
Benzo(a)Pyrene	ug/kg	5.87	1.47	--	NA	NA	16.31	--	--	24.1	5.84	4.06
Benzo(b)Fluoranthene	ug/kg	24.0	6.16	3.40	NA	NA	64.98	1.25	--	49.8	29.0	19.1
Benzo(g,h,i)Perylene	ug/kg	12.2	3.40	1.64	NA	NA	36.67	--	--	27.0	13.8	6.25
Benzo(j)+(k)Fluoranthene	ug/kg	5.43	1.58	0.944	NA	NA	18.28	0.35	--	14.3	6.55	2.14
Chrysene/Triphenylene	ug/kg	22.2	6.69	3.95	NA	NA	34.37	1.22	--	35.2	22.5	15.7
Dibenz(a,h)Anthracene	ug/kg	3.53	1.00	0.793	NA	NA	5.48	--	--	5.99	4.04	2.58
Fluoranthene	ug/kg	18.6	5.05	4.88	NA	NA	57.06	2.05	0.70	42.4	22.9	12.1
Fluorene	ug/kg	8.67	3.71	4.27	NA	NA	18.65	1.97	1.52	11.2	16.9	8.13
Indeno[1,2,3-cd]pyrene	ug/kg	11.4	2.65	1.57	NA	NA	20.32	--	--	20.1	10.3	6.40
Naphthalene	ug/kg	5.21	3.20	2.74	NA	NA	9.16	1.39	--	8.38	14.1	7.43
Phenanthrene	ug/kg	24.0	8.96	11.9	NA	NA	56.02	4.92	3.65	37.9	43.2	20.4
Pyrene	ug/kg	21.1	4.98	4.02	NA	NA	56.41	1.66	0.56	48.4	23.0	9.73
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	12.3	3.72	--	NA	NA	26.47	--	--	26.8	12.6	6.25
C1-Chrysenes	ug/kg	55.8	20.3	13.0	NA	NA	145.83	--	--	85.6	66.5	30.7
C1-Fluoranthenes/Pyrenes	ug/kg	21.8	6.05	2.81	NA	NA	41.70	1.11	0.30 J	36.8	23.0	8.94
C1-Fluorenes	ug/kg	8.59	2.05	1.94	NA	NA	8.63	1.02	0.80	12.0	14.3	4.53
C1-Phenanthrenes/Anthracenes	ug/kg	29.5	9.14	7.44	NA	NA	41.97	4.61	--	43.9	47.6	14.1
C2-Chrysenes	ug/kg	42.3	17.7	3.06	NA	NA	56.69	--	--	71.6	34.7	11.7
C2-Fluorenes	ug/kg	22.57	10.7	3.59	NA	NA	36.34	1.75	--	44.6	55.9	10.3
C2-Naphthalenes	ug/kg	21.3	7.73	4.41	NA	NA	20.73	1.73	0.95	61.9	84.2	17.9
C2-Phenanthrenes/Anthracenes	ug/kg	64.5	16.3	7.84	NA	NA	51.22	6.69	--	66.9	80.0	16.9
C3-Chrysenes	ug/kg	31.5	15.7	1.75	NA	NA	44.75	--	--	52.7	36.7	10.4
C3-Fluorenes	ug/kg	30.88	10.8	6.02	NA	NA	31.05	--	--	32.6	39.8	13.3
C3-Naphthalenes	ug/kg	--	13.3	5.68	NA	NA	27.21	5.68	1.49	87.2	158	37.1
C3-Phenanthrenes/Anthracenes	ug/kg	56.2	16.5	3.72	NA	NA	75.08	1.33	--	69.7	87.6	13.2
C4-Chrysenes	ug/kg	17.4	7.18	--	NA	NA	35.60	--	--	25.9	17.5	4.12
C4-Naphthalenes	ug/kg	22.8	6.58	6.96	NA	NA	16.06	2.09	--	50.8	96.3	11.6
C4-Phenanthrenes/Anthracenes	ug/kg	46.1	14.0	3.40	NA	NA	71.93	1.97	--	71.0	81.7	12.5
Perylene	ug/kg	1905 EJ	153	567 EJ	NA	NA	818.38 EJ	303.95	65.69	197	518 EJ	567 EJ
Phenanthrene, 2-methyl-	ug/kg	9.72	NA	NA	NA	NA	12.9	NA	NA	16.6	NA	NA
1,1-Biphenyl	ug/kg	5.12	NA	NA	NA	NA	5.73	NA	NA	4.95	NA	NA
18a-Oleanane	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	4.12	NA	NA	NA	NA	2.37	NA	NA	4.16	NA	NA
1-Methylfluorene	ug/kg	4.75	NA	NA	NA	NA	5.00	NA	NA	7.14	NA	NA
1-Methylphenanthrene	ug/kg	6.51	NA	NA	NA	NA	8.76	NA	NA	8.19	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	4.41	NA	NA	NA	NA	2.91	NA	NA	13.0	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	8.38	NA	NA	NA	NA	8.23	NA	NA	11.8	NA	NA
2-Methylanthracene	ug/kg	7.67	NA	NA	NA	NA	13.6	NA	NA	9.03	NA	NA
2-Methylfluoranthene	ug/kg	3.39	NA	NA	NA	NA	7.58	NA	NA	6.17	NA	NA
3,6-Dimethylphenanthrene	ug/kg	18.7	NA	NA	NA	NA	3.24	NA	NA	4.54	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	9.09	NA	NA	NA	NA	12.0	NA	NA	15.1	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	10.4	NA	NA	NA	NA	8.43	NA	NA	14.7	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	6.66	NA	NA	NA	NA	9.15	NA	NA	9.94	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-030	SED-DA-030	SED-DA-030	SED-DA-031	SED-DA-031	SED-DA-031
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/28/2013	7/28/2013	7/28/2013
Sample ID		SED-DA-029(0.0-0.5)	SED-DA-029(0.5-1.0)	SED-DA-029(1.0-1.5)	SED-DA-029(1.5-2.0)	SED-DA-029(2.0-3.0)	SED-DA-030(0.0-0.5)	SED-DA-030(0.5-1.0)	SED-DA-030(1.0-1.5)	SED-DA-031(0.0-0.5)	SED-DA-031(0.5-1.0)	SED-DA-031(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	--	NA	NA	NA	NA	--	NA	NA	7.20	NA	NA
Benzo(b)fluorene	ug/kg	6.09	NA	NA	NA	NA	12.2	NA	NA	12.1	NA	NA
Benzothiophene	ug/kg	0.855	NA	NA	NA	NA	1.33	NA	NA	1.25	NA	NA
C1-Benzo(b)thiophenes	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C1-Decalins	ug/kg	49.0	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C1-Dibenzothiophenes	ug/kg	13.5	2.98	1.09	NA	NA	11.20	0.37	--	18.0	21.1	3.72
C1-Naphthalenes	ug/kg	8.24	3.07	1.84	NA	NA	8.90	0.84 J	0.47 J	16.8	17.7	5.18
C1-Naphthobenzothiophenes	ug/kg	56.2	NA	NA	NA	NA	89.05	NA	NA	84.7	NA	NA
C20-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C21-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C29-Hopane	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C2-Benzo(b)thiophenes	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C2-Decalins	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	28.4	6.94	1.55	NA	NA	23.54	0.64	--	34.7	44.7	6.27
C2-Fluoranthenes/Pyrenes	ug/kg	46.9	13.6	3.06	NA	NA	97.15	--	--	65.7	36.5	15.5
C2-Naphthobenzothiophenes	ug/kg	120	NA	NA	NA	NA	142.97	NA	NA	181	NA	NA
C30-Hopane	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C3-Benzo(b)thiophenes	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C3-Decalins	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	48.9	16.2	2.18	NA	NA	41.71	1.36	--	63.9	89.7	12.2
C3-Fluoranthenes/Pyrenes	ug/kg	37.3	13.2	2.25	NA	NA	55.80	--	--	51.8	31.7	10.6
C3-Naphthobenzothiophenes	ug/kg	118	NA	NA	NA	NA	142.89	NA	NA	156	NA	NA
C4-Benzo(b)thiophenes	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C4-Decalins	ug/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	49.0	16.9	1.69	NA	NA	43.70	1.24	--	56.1	71.2	9.30
C4-Fluoranthenes/Pyrenes	ug/kg	38.5	13.1	3.74	NA	NA	45.25	--	--	54.3	46.3	14.3
C4-Naphthobenzothiophenes	ug/kg	48.2	NA	NA	NA	NA	56.06	NA	NA	95.0	NA	NA
Carbazole	ug/kg	2.79	NA	NA	NA	NA	5.10	NA	NA	4.07	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	20.2	NA	NA	NA	NA	39.83	NA	NA	35.9	NA	NA
Dibenzofuran	ug/kg	4.64	NA	NA	NA	NA	9.96	NA	NA	7.14	NA	NA
Dibenzothiophene	ug/kg	7.05	1.70	1.18	NA	NA	8.76	0.49	0.17	8.94	9.30	3.13
Naphthalene, 2,6-dimethyl-	ug/kg	11.6	NA	NA	NA	NA	10.5	NA	NA	35.5	NA	NA
Naphthobenzothiophene	ug/kg	19.5	NA	NA	NA	NA	35.02	NA	NA	29.7	NA	NA
Retene	ug/kg	4.69	NA	NA	NA	NA	32.1	NA	NA	6.11	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	1753	NA	NA	NA	NA	2875	NA	NA	1462	NA	NA
i-C15	mg/kg	0.019	NA	NA	NA	NA	0.012 J	NA	NA	0.084	NA	NA
i-C16	mg/kg	0.053	NA	NA	NA	NA	0.096	NA	NA	0.131	NA	NA
i-C18	mg/kg	0.025	NA	NA	NA	NA	0.047	NA	NA	0.096	NA	NA
n-C10 (n-Decane)	mg/kg	0.004 J	NA	NA	NA	NA	--	NA	NA	0.015 J	NA	NA
n-C11 (n-Undecane)	mg/kg	0.012 J	NA	NA	NA	NA	0.025	NA	NA	0.025	NA	NA
n-C12 (n-Dodecane)	mg/kg	0.014 J	NA	NA	NA	NA	0.023	NA	NA	0.035	NA	NA
n-C13 (n-Tridecane)	mg/kg	0.016 J	NA	NA	NA	NA	0.034 J	NA	NA	0.050	NA	NA
n-C14 (n-Tetradecane)	mg/kg	0.024	NA	NA	NA	NA	0.043	NA	NA	0.088	NA	NA
n-C15 (Pentadecane)	mg/kg	0.195	NA	NA	NA	NA	0.475	NA	NA	0.362	NA	NA
n-C16 (n-Hexadecane)	mg/kg	0.013	NA	NA	NA	NA	0.034	NA	NA	0.046	NA	NA
n-C17 (Heptadecane)	mg/kg	0.111	NA	NA	NA	NA	0.136	NA	NA	0.147	NA	NA
n-C18 (Octadecane)	mg/kg	0.498	NA	NA	NA	NA	1.18	NA	NA	0.733	NA	NA
n-C19 (Nonadecane)	mg/kg	0.433	NA	NA	NA	NA	0.910	NA	NA	0.711	NA	NA
n-C20 (Eicosane)	mg/kg	0.176	NA	NA	NA	NA	0.209	NA	NA	0.126	NA	NA
n-C21 (Heneicosane)	mg/kg	1.85	NA	NA	NA	NA	3.46	NA	NA	1.24	NA	NA
n-C22 (Docosane)	mg/kg	0.218	NA	NA	NA	NA	0.383	NA	NA	0.163	NA	NA
n-C23 (Tricosane)	mg/kg	1.86	NA	NA	NA	NA	5.45	NA	NA	1.86	NA	NA
n-C24 (Tetracosane)	mg/kg	0.273	NA	NA	NA	NA	0.620	NA	NA	0.182	NA	NA
n-C25 (Pentacosane)	mg/kg	1.37	NA	NA	NA	NA	3.79	NA	NA	1.45	NA	NA
n-C26 (Hexacosane)	mg/kg	0.179	NA	NA	NA	NA	0.414	NA	NA	0.190	NA	NA
n-C27 (Heptacosane)	mg/kg	1.55	NA	NA	NA	NA	4.45	NA	NA	1.56	NA	NA
n-C28 (Octacosane)	mg/kg	0.448	NA	NA	NA	NA	0.697	NA	NA	0.219	NA	NA
n-C29 (Nonacosane)	mg/kg	3.77	NA	NA	NA	NA	7.36	NA	NA	1.91	NA	NA
n-C30 (n-Triacontane)	mg/kg	0.584	NA	NA	NA	NA	1.04	NA	NA	0.285	NA	NA
n-C31 (Hentriacontane)	mg/kg	5.45	NA	NA	NA	NA	6.66	NA	NA	1.62	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-029	SED-DA-030	SED-DA-030	SED-DA-030	SED-DA-031	SED-DA-031	SED-DA-031
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-3 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/29/2013	7/28/2013	7/28/2013	7/28/2013
Sample ID		SED-DA-029(0.0-0.5)	SED-DA-029(0.5-1.0)	SED-DA-029(1.0-1.5)	SED-DA-029(1.5-2.0)	SED-DA-029(2.0-3.0)	SED-DA-030(0.0-0.5)	SED-DA-030(0.5-1.0)	SED-DA-030(1.0-1.5)	SED-DA-031(0.0-0.5)	SED-DA-031(0.5-1.0)	SED-DA-031(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	0.367	NA	NA	NA	NA	0.940	NA	NA	0.433	NA	NA
n-C33	mg/kg	9.40	NA	NA	NA	NA	5.38	NA	NA	1.50	NA	NA
n-C34 (Tetratriacontane)	mg/kg	0.523	NA	NA	NA	NA	0.914	NA	NA	0.193	NA	NA
n-C35	mg/kg	2.74	NA	NA	NA	NA	3.19	NA	NA	0.898	NA	NA
n-C36 (Hexatriacontane)	mg/kg	0.238	NA	NA	NA	NA	0.583	NA	NA	0.122	NA	NA
n-C37	mg/kg	1.17	NA	NA	NA	NA	2.05	NA	NA	0.523	NA	NA
n-C38 (Octatriacontane)	mg/kg	0.143	NA	NA	NA	NA	0.259	NA	NA	0.139	NA	NA
n-C39 (Nonatriacontane)	mg/kg	0.231	NA	NA	NA	NA	0.698	NA	NA	0.285	NA	NA
n-C40 (Tetracontane)	mg/kg	--	NA	NA	NA	NA	--	NA	NA	0.133	NA	NA
n-C9 (Nonane)	mg/kg	--	NA	NA	NA	NA	--	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.201	NA	NA	NA	NA	0.316	NA	NA	0.337	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.105	NA	NA	NA	NA	0.174	NA	NA	0.195	NA	NA
Total Alkanes	mg/kg	34.3	NA	NA	NA	NA	52.1	NA	NA	18.1	NA	NA
Total Petroleum Hydrocarbons	mg/kg	510	NA	NA	NA	NA	1125	NA	NA	467	NA	NA
Total Resolveable Hydrocarbons	mg/kg	248	NA	NA	NA	NA	584	NA	NA	220	NA	NA
Unresolved Complex Mixture	mg/kg	262	NA	NA	NA	NA	541	NA	NA	247	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	90 J	--	--	--	--	--	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	420	66 J	18 J	11 J	60 J	96 J	13 J	8 J	--	73 J	23 J
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	3 J	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-032	SED-DA-032	SED-DA-032	SED-DA-039	SED-DA-039	SED-DA-039	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-041
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/14/2013
	Sample ID	SED-DA-032(0.0-0.5)	SED-DA-032(0.5-1.0)	SED-DA-032(1.0-1.5)	SED-DA-039(0.0-0.5)	SED-DA-039(0.5-1.0)	SED-DA-039(1.0-1.5)	SED-DA-040(0.0-0.5)	SED-DA-DUP-05-080613FD	SED-DA-040(0.5-1.0)	SED-DA-040(1.0-1.5)	SED-DA-041(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	6.30	2.37 J	1.83 J	3.23	4.20	4.40	2.42 J	3.56	2.31 J	2.44	9.84 J
Barium	mg/kg	130 J	112 J	76.6 J	86.6	123	125	66.9	64.8	66.1	60.4	171
Cadmium	mg/kg	0.207 J	--	--	0.196 J	0.282 J	0.370 J	0.115 J	0.154 J	0.131 J	0.0907 J	0.742 J
Chromium	mg/kg	26.7 J	17.3 J	14.6 J	13.2 J	17.1 J	18.9 J	11.3 J	11.4 J	12.0 J	10.0 J	25.6 J
Lead	mg/kg	25.8 J	15.3 J	11.0 J	18.2	19.7	22.0	10.7	11.8	10.3	9.16	28.2
Mercury	mg/kg	0.0418 J	0.0425 J	0.0417 J	0.0253 J	0.0322 J	0.0330 J	0.0177 J	0.0155 J	0.0186 J	--	0.0703 J
Nickel	mg/kg	20.9 J	9.81 J	7.41 J	10.2	13.9	15.9	7.75	7.19	7.60	5.73	22.8
Selenium	mg/kg	--	--	--	--	1.08 J	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	43.5 J	31.0 J	25.8 J	22.1	27.9	29.4	19.0	18.9	20.2	14.6	39.4
Other												
Black Carbon	%	0.190 J	NA	NA	--	NA	NA	--	--	NA	NA	0.35 J
Percent Moisture	%	61.0	25.2	23.9	27.9	24.9	35.6	20.2	19.2	20.2	17.0	85.2
Total Organic Carbon	%	4.91	NA	NA	1.93	NA	NA	0.9 J	0.4 J	NA	NA	8.55
Priority PAHs												
1-Methylnaphthalene	ug/kg	6.70	1.63	0.376 J	30.0	255	45.3	4.36	4.09	0.461 J	0.521 J	20.9
2-Methylnaphthalene	ug/kg	16.4	3.73	0.860 J	52.5	314	69.6	6.98	7.41	0.967 J	1.05 J	33.9
Acenaphthene	ug/kg	3.79	1.01	--	5.34	18.0	6.0	0.580 J	--	0.106	0.150	3.44
Acenaphthylene	ug/kg	4.31	0.569	--	6.37	15.3	5.5	0.541	0.383	0.105	0.043	11.6
Anthracene	ug/kg	8.58 J	0.661 J	--	3.14	--	--	--	--	--	--	15.6
Benzo(a)Anthracene	ug/kg	20.0	1.31	0.181 J	18.2 J	28.4	11.4	1.3	1.17	--	--	16.1
Benzo(a)Pyrene	ug/kg	11.9	--	--	60.4	29.8	21.5	1.81	1.55	--	--	25.5
Benzo(b)Fluoranthene	ug/kg	43.9	5.51	0.419	110	48.4	54.6	4.10	3.48	--	--	72.9
Benzo(g,h,i)Perylene	ug/kg	14.2	1.44	--	89.2	38.2	24.3	3.37	3.29	--	--	66.2
Benzo(j)+(k)Fluoranthene	ug/kg	10.7	1.01	0.099	66.2	28.3	14.4	1.77	1.41	--	--	35.1
Chrysene/Triphenylene	ug/kg	32.3	3.90	0.324	107	101	62.8	7.4	6.62	--	--	36.1
Dibenz(a,h)Anthracene	ug/kg	4.74	1.84	--	22.5 J	10.3	6.21	0.797	0.819	--	--	11.7
Fluoranthene	ug/kg	31.8	4.05	1.35	65.2	64.1	50.2	4.15	4.10	0.956	0.719	45.9
Fluorene	ug/kg	16.0	5.63	2.56	37.4	74.0	30.0	2.75	3.92	1.69	1.65	18.4
Indeno[1,2,3-cd]pyrene	ug/kg	12.6	1.48	--	36.8	16.6	16.7	1.15	1.20	--	--	48.9
Naphthalene	ug/kg	12.7	4.51	1.17	6.72	28.9	11.0	2.69	3.75	--	1.26	17.0
Phenanthrene	ug/kg	34.2	13.7	6.23	119	250	91.2	11.5	13.4	4.52	4.47	42.6
Pyrene	ug/kg	35.2	2.83	0.621	127	82.5	43.4	6.94	5.97	0.282	0.570	44.5
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	21.2	--	--	149	56.3	37.0	4.69	4.63	--	--	48.0
C1-Chrysenes	ug/kg	71.5	--	--	320	338	112	23.5	19.4	--	--	119
C1-Fluoranthenes/Pyrenes	ug/kg	33.4	2.52	0.403 J	390	347	141	24.4	21.0	0.378 J	0.737	71.5
C1-Fluorenes	ug/kg	10.9	2.25	0.854	167	242	102	10.5	10.5	0.695	0.634	38.1
C1-Phenanthrenes/Anthracenes	ug/kg	37.6	7.11	3.98	643	745	248	33.2	30.2	--	--	92.3
C2-Chrysenes	ug/kg	59.7	--	--	417	372	123	33.4	29.5	--	--	95.9
C2-Fluorenes	ug/kg	41.8	3.36	--	906	594	244	41.8	35.2	--	--	111
C2-Naphthalenes	ug/kg	34.2	9.55	3.17	330	1164	275	29.7	24.3	1.97	1.72	127
C2-Phenanthrenes/Anthracenes	ug/kg	69.0	6.42	--	1529	1288	378	83.8	72.7	--	--	198
C3-Chrysenes	ug/kg	41.4	--	--	351	278	102	27.1	22.1	--	--	62.1
C3-Fluorenes	ug/kg	41.3	--	--	1456	675	295	54.8	48.5	--	--	172
C3-Naphthalenes	ug/kg	50.8	6.48	4.69	784	1181	376	45.8	44.3	3.09	4.28	196
C3-Phenanthrenes/Anthracenes	ug/kg	78.9	1.33	--	1814	1457	472	109	98.7	--	--	258
C4-Chrysenes	ug/kg	23.4	--	--	182	143	56.2	11.3	12.0	--	--	49.4
C4-Naphthalenes	ug/kg	30.6	28.2	5.65	1196	1053	362	59.7	54.5	1.77	--	190
C4-Phenanthrenes/Anthracenes	ug/kg	70.8	1.65	--	1253	879	309	79.7	69.5	--	--	195
Perylene	ug/kg	303	892 EJ	264	38.4	37.5	35.2	1.09 J	1.38 J	1.58 J	2.58 J	197
Phenanthrene, 2-methyl-	ug/kg	13.3	NA	NA	237 J	NA	NA	11.95 J	10.5 J	NA	NA	35.5
1,1-Biphenyl	ug/kg	6.77	NA	NA	11.0	NA	NA	2.21	2.20	NA	NA	8.41
18a-Oleanane	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	--
1-Methyldibenzothiophene(1MDT)	ug/kg	4.41	NA	NA	227	NA	NA	11.1	9.71	NA	NA	31.4
1-Methylfluorene	ug/kg	6.50	NA	NA	125	NA	NA	7.19	6.41	NA	NA	25.0
1-Methylphenanthrene	ug/kg	7.99	NA	NA	211	NA	NA	9.48	8.57	NA	NA	26.8
2,3,5-Trimethylnaphthalene	ug/kg	4.12	NA	NA	130	NA	NA	6.20	8.63	NA	NA	21.5
2/3-Methyldibenzothiophene(2MDT)	ug/kg	11.0	NA	NA	264	NA	NA	16.0	13.0	NA	NA	38.6
2-Methylanthracene	ug/kg	9.39	NA	NA	18.2	NA	NA	3.36	3.30	NA	NA	9.80
2-Methylfluoranthene	ug/kg	4.98	NA	NA	39	NA	NA	2.23	1.72	NA	NA	6.11
3,6-Dimethylphenanthrene	ug/kg	4.27	NA	NA	112	NA	NA	5.90	4.14	NA	NA	11.2
3-Methylphenanthrene (3MP)	ug/kg	11.6	NA	NA	184	NA	NA	10.2	9.74	NA	NA	26.9
4-Methyldibenzothiophene(4MDT)	ug/kg	11.9	NA	NA	396	NA	NA	19.8	17.3	NA	NA	50.4
9/4-Methylphenanthrene (9MP)	ug/kg	8.21	NA	NA	280	NA	NA	13.1	11.6	NA	NA	42.5

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-032	SED-DA-032	SED-DA-032	SED-DA-039	SED-DA-039	SED-DA-039	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-041
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1-1.5 ft	0-0.5 ft
Sample Date		7/28/2013	7/28/2013	7/28/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/14/2013
Sample ID		SED-DA-032(0.0-0.5)	SED-DA-032(0.5-1.0)	SED-DA-032(1.0-1.5)	SED-DA-039(0.0-0.5)	SED-DA-039(0.5-1.0)	SED-DA-039(1.0-1.5)	SED-DA-040(0.0-0.5)	SED-DA-DUP-05-080613FD	SED-DA-040(0.5-1.0)	SED-DA-040(1.0-1.5)	SED-DA-040(1.0-1.5)	SED-DA-041(0.0-0.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**												
Benzo(a)Fluoranthene	ug/kg	10.3	NA	NA	--	NA	NA	--	--	NA	NA	NA	16.9
Benzo(b)fluorene	ug/kg	9.60	NA	NA	22.3 J	NA	NA	1.45	1.38	NA	NA	NA	11.8
Benzothiophene	ug/kg	1.61	NA	NA	1.98	NA	NA	0.164	0.299	NA	NA	NA	--
C1-Benzo(b)thiophenes	ug/kg	--	NA	NA	36.6	NA	NA	1.41	1.66	NA	NA	NA	--
C1-Decalins	ug/kg	--	NA	NA	72.8	NA	NA	0.632 J	1.16 J	NA	NA	NA	--
C1-Dibenzothiophenes	ug/kg	16.0	1.21	--	772.6	939	273	40.8	34.8	0.447	0.269	0.269	94.7
C1-Naphthalenes	ug/kg	14.3	3.31	0.764 J	44.4	305	61.8	6.10	6.20	0.771 J	0.85 J	0.85 J	36.9
C1-Naphthobenzothiophenes	ug/kg	106	NA	NA	515	NA	NA	43.7	34.9	NA	NA	NA	114
C20-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	NA	--
C21-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	NA	--
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	NA	--
C26(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	NA	--
C27(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	NA	--
C28(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	NA	--
C28(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	--	--	NA	NA	NA	--
C29-Hopane	ug/kg	--	NA	NA	2156	NA	NA	89.8	85.8	NA	NA	NA	--
C2-Benzo(b)thiophenes	ug/kg	--	NA	NA	88.2	NA	NA	7.08	5.90	NA	NA	NA	--
C2-Decalins	ug/kg	--	NA	NA	293	NA	NA	1.74 J	4.51 J	NA	NA	NA	--
C2-Dibenzothiophenes	ug/kg	36.5	0.923	--	1812	1613	509	94.4	85.5	0.643	0.435	0.435	213
C2-Fluoranthenes/Pyrenes	ug/kg	77.2	--	--	465	521	179	35.8	28.8	--	--	--	108
C2-Naphthobenzothiophenes	ug/kg	184	NA	NA	818	NA	NA	69.7	58.3	NA	NA	NA	197
C30-Hopane	ug/kg	--	NA	NA	3003	NA	NA	120	114	NA	NA	NA	--
C3-Benzo(b)thiophenes	ug/kg	--	NA	NA	288	NA	NA	15.0	19.4	NA	NA	NA	--
C3-Decalins	ug/kg	--	NA	NA	1005	NA	NA	12.8	21.0	NA	NA	NA	--
C3-Dibenzothiophenes	ug/kg	79.9	0.470	--	2675	1803	615	155	132	0.775	0.351	0.351	323
C3-Fluoranthenes/Pyrenes	ug/kg	49.7	--	--	441	334	158	34.5	27.2	--	--	--	80.9
C3-Naphthobenzothiophenes	ug/kg	148	NA	NA	593	NA	NA	59.0	42.3	NA	NA	NA	155
C4-Benzo(b)thiophenes	ug/kg	--	NA	NA	557	NA	NA	21.1	19.2	NA	NA	NA	--
C4-Decalins	ug/kg	--	NA	NA	1064	NA	NA	34.6	39.7	NA	NA	NA	--
C4-Dibenzothiophenes	ug/kg	69.9	0.850	--	1881	1223	433	108	93.6	--	--	--	246
C4-Fluoranthenes/Pyrenes	ug/kg	59.4	--	--	494	409	161	36.1	28.8	--	--	--	89.3
C4-Naphthobenzothiophenes	ug/kg	69.1	NA	NA	338	NA	NA	32.3	22.4	NA	NA	NA	76.6
Carbazole	ug/kg	4.04	NA	NA	8.54	NA	NA	0.706	0.469	NA	NA	NA	8.36
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	28.5	NA	NA	18.3 J	NA	NA	1.10	1.77	NA	NA	NA	38.1
Dibenzofuran	ug/kg	9.36	NA	NA	14.9 J	NA	NA	1.66	2.44	NA	NA	NA	10.7
Dibenzothiophene	ug/kg	8.64	1.37	0.214	142.3	221	84.2	9.5	8.18	0.500	0.336	0.336	31.2
Naphthalene, 2,6-dimethyl-	ug/kg	20.0	NA	NA	174	NA	NA	16.8	13.7	NA	NA	NA	50.9
Naphthobenzothiophene	ug/kg	35.0	NA	NA	172	NA	NA	15.6	12.4	NA	NA	NA	37.0
Retene	ug/kg	8.14	NA	NA	120	NA	NA	7.33 J	14.9 J	NA	NA	NA	27.3
TPH													
EOM (Extracted Organic Material)	mg/kg	2101	NA	76 J	5024	NA	NA	332	277	NA	NA	NA	5132
i-C15	mg/kg	0.033	NA	0.006 J	1.092	NA	NA	0.004 J	0.037	NA	NA	NA	0.141
i-C16	mg/kg	0.084	NA	0.008	1.658	NA	NA	0.014 J	0.033 J	NA	NA	NA	0.612
i-C18	mg/kg	0.043	NA	0.008	1.387	NA	NA	0.066	0.061	NA	NA	NA	0.201
n-C10 (n-Decane)	mg/kg	0.016 J	NA	0.006 J	0.016 J	NA	NA	--	--	NA	NA	NA	0.010 J
n-C11 (n-Undecane)	mg/kg	0.025	NA	0.007 J	0.020	NA	NA	0.003 J	0.003 J	NA	NA	NA	0.042
n-C12 (n-Dodecane)	mg/kg	0.029	NA	0.015 J	0.148	NA	NA	0.010 J	0.025	NA	NA	NA	0.065
n-C13 (n-Tridecane)	mg/kg	0.036 J	NA	0.014 J	0.201	NA	NA	0.006 J	0.020 J	NA	NA	NA	0.091
n-C14 (n-Tetradecane)	mg/kg	0.049	NA	0.026	0.393	NA	NA	0.028	0.052	NA	NA	NA	0.153
n-C15 (Pentadecane)	mg/kg	0.272	NA	0.071	0.593	NA	NA	0.035	0.032	NA	NA	NA	0.267
n-C16 (n-Hexadecane)	mg/kg	0.035	NA	0.040	0.373	NA	NA	0.042	0.069	NA	NA	NA	0.172
n-C17 (Heptadecane)	mg/kg	0.236	NA	0.014	0.990	NA	NA	0.044	0.060	NA	NA	NA	0.711
n-C18 (Octadecane)	mg/kg	0.753	NA	0.049	0.740	NA	NA	0.064	0.082	NA	NA	NA	1.402
n-C19 (Nonadecane)	mg/kg	0.742	NA	0.029	0.638	NA	NA	0.046	0.056	NA	NA	NA	1.100
n-C20 (Eicosane)	mg/kg	0.144	NA	0.008 J	0.452	NA	NA	0.032	0.040	NA	NA	NA	0.179
n-C21 (Heneicosane)	mg/kg	1.59	NA	0.012	0.442	NA	NA	0.041	0.046	NA	NA	NA	3.347
n-C22 (Docosane)	mg/kg	0.257	NA	0.011	0.246	NA	NA	0.028	0.038	NA	NA	NA	0.392
n-C23 (Tricosane)	mg/kg	3.03	NA	0.034	0.262	NA	NA	0.043	0.048	NA	NA	NA	3.971
n-C24 (Tetracosane)	mg/kg	0.319	NA	0.015	0.548	NA	NA	0.061	0.068	NA	NA	NA	0.766
n-C25 (Pentacosane)	mg/kg	1.88	NA	0.045	0.666	NA	NA	0.095	0.110	NA	NA	NA	4.088
n-C26 (Hexacosane)	mg/kg	0.251	NA	0.009	0.486	NA	NA	0.075	0.097	NA	NA	NA	0.525
n-C27 (Heptacosane)	mg/kg	2.50	NA	0.046	0.895	NA	NA	0.162	0.179	NA	NA	NA	5.039
n-C28 (Octacosane)	mg/kg	0.664	NA	0.009 J	0.484	NA	NA	0.133	0.143	NA	NA	NA	1.088
n-C29 (Nonacosane)	mg/kg	6.567	NA	0.088	2.401 J	NA	NA	0.340	0.355	NA	NA	NA	7.876
n-C30 (n-Triacontane)	mg/kg	0.682	NA	0.016	0.521	NA	NA	0.110	0.106	NA	NA	NA	0.463
n-C31 (Hentriacontane)	mg/kg	9.38	NA	0.108	3.104	NA	NA	0.376	0.350	NA	NA	NA	12.187

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-032	SED-DA-032	SED-DA-032	SED-DA-039	SED-DA-039	SED-DA-039	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-040	SED-DA-041
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft		0-0.5 ft
Sample Date		7/28/2013	7/28/2013	7/28/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013	8/6/2013		8/14/2013
Sample ID		SED-DA-032(0.0-0.5)	SED-DA-032(0.5-1.0)	SED-DA-032(1.0-1.5)	SED-DA-039(0.0-0.5)	SED-DA-039(0.5-1.0)	SED-DA-039(1.0-1.5)	SED-DA-040(0.0-0.5)	SED-DA-DUP-05-080613FD	SED-DA-040(0.5-1.0)	SED-DA-040(1.0-1.5)		SED-DA-041(0.0-0.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II		Tier II
Chemical	**Units**												
n-C32 (Dotriacontane)	mg/kg	0.298	NA	0.035	0.429	NA	NA	0.035	0.039	NA	NA		1.187
n-C33	mg/kg	15.2	NA	0.116	0.960	NA	NA	0.144	0.184	NA	NA		17.630
n-C34 (Tetratriacontane)	mg/kg	1.36	NA	0.013 J	0.098	NA	NA	0.026	0.032	NA	NA		1.039
n-C35	mg/kg	8.62	NA	0.068	0.799	NA	NA	0.073	0.060	NA	NA		12.806
n-C36 (Hexatriacontane)	mg/kg	0.409	NA	--	0.053	NA	NA	0.011 J	0.029	NA	NA		0.523
n-C37	mg/kg	1.81	NA	--	0.691	NA	NA	0.043	0.044	NA	NA		0.833
n-C38 (Octatriacontane)	mg/kg	0.171	NA	--	0.037	NA	NA	0.010 J	0.011 J	NA	NA		0.392
n-C39 (Nonatriacontane)	mg/kg	0.362	NA	--	--	NA	NA	0.005 J	0.002 J	NA	NA		0.726
n-C40 (Tetracontane)	mg/kg	0.147	NA	--	--	NA	NA	0.005 J	0.009 J	NA	NA		0.059
n-C9 (Nonane)	mg/kg	--	NA	--	0.014	NA	NA	--	--	NA	NA		--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.291	NA	0.010	3.175	NA	NA	0.177	0.159	NA	NA		0.794
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.161	NA	0.014	2.535 J	NA	NA	0.137	0.126	NA	NA		0.534
Total Alkanes	mg/kg	58.5	NA	1.0	27.5	NA	NA	2.5	2.8	NA	NA		81.4
Total Petroleum Hydrocarbons	mg/kg	692	NA	67	2832	NA	NA	322	243	NA	NA		1469
Total Resolveable Hydrocarbons	mg/kg	343	NA	17	259	NA	NA	23	17	NA	NA		636
Unresolved Complex Mixture	mg/kg	349	NA	50	2573	NA	NA	299	226	NA	NA		833
VOCs													
1,2,4-Trimethylbenzene	ug/kg	--	--	--	5 J	2 J	16	--	--	--	--		--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	3 J	2 J	10	--	--	--	--		--
2-Butanone (MEK)	ug/kg	--	--	--	--	--	--	--	--	--	--		--
2-Phenylbutane	ug/kg	--	--	--	1 J	--	2 J	--	--	--	--		--
Acetone	ug/kg	65 J	12 J	--	18 J	26	31	8 J	12 J	--	--		230
Benzene	ug/kg	--	--	--	--	--	4 J	--	--	--	--		--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--		--
Ethylbenzene	ug/kg	--	--	--	--	--	4 J	--	--	--	--		--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	2 J	--	--	--	--		--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--		--
n-Butylbenzene	ug/kg	--	--	--	2 J	--	2 J	--	--	--	--		--
n-Propylbenzene	ug/kg	--	--	--	--	--	4 J	--	--	--	--		--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	2 J	--	3 J	--	--	--	--		--
Toluene	ug/kg	--	--	--	--	--	3 J	--	--	--	--		--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	--		19 J
Xylene (Total)	ug/kg	--	--	--	2 J	3 J	26	--	--	--	--		--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-041	SED-DA-041	SED-DA-042	SED-DA-042	SED-DA-042	SED-DA-043	SED-DA-043	SED-DA-043	SED-DA-044	SED-DA-044	SED-DA-044
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/14/2013	8/14/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
Sample ID		SED-DA-041(0.5-1.0)	SED-DA-041(1.0-1.5)	SED-DA-042(0.0-0.5)	SED-DA-042(0.5-1.0)	SED-DA-042(1.0-1.5)	SED-DA-043(0.0-0.5)	SED-DA-043(0.5-1.0)	SED-DA-043(1.0-1.5)	SED-DA-044(0.0-0.5)	SED-DA-044(0.5-1.0)	SED-DA-044(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	6.68 J	5.14	6.99	4.72	3.47	8.33	4.38	5.65	8.11	6.40	4.62
Barium	mg/kg	143	119	135	112	105	167	93.8	209	168	139	112
Cadmium	mg/kg	0.523 J	0.408 J	--	--	--	--	--	--	--	--	--
Chromium	mg/kg	19.4 J	16.4 J	21.9 J	17.7 J	19.2 J	21.1 J	16.0 J	14.5 J	18.7 J	12.9 J	16.7 J
Lead	mg/kg	24.6	19.4	24.6	19.7	15.3	36.0	18.9	14.6	35.2	18.7	13.1
Mercury	mg/kg	0.0457 J	0.0462 J	0.0552 J	0.0413 J	0.0240 J	0.0618 J	0.0507 J	0.0262 J	0.0766 J	0.0357 J	0.0158 J
Nickel	mg/kg	16.7	13.7	17.4	11.1	9.39	18.5	14.9	10.3	17.2	10.8	7.04
Selenium	mg/kg	--	--	--	1.19 J	1.29 J	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	32.2	26.5	38.1	37.1	39.1	36.4	26.4	25.6	33.3	27.1	32.6
Other												
Black Carbon	%	NA	NA	--	NA	NA	0.2 J	NA	NA	0.24 J	NA	NA
Percent Moisture	%	73.1	61.8	67.7	29.4	23.2	43.8	22.6	20.1	45.9	21.2	20.7
Total Organic Carbon	%	NA	NA	4.27	NA	NA	3.66	NA	NA	6.03	NA	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	3.85	2.44	6.74 J	2.69	1.51	58.8	13.6	1.86	29.6	3.04	3.12
2-Methylnaphthalene	ug/kg	9.03	5.35	13.2 J	5.57	3.16	89.3	22.5	3.76	42.8	5.88	5.84
Acenaphthene	ug/kg	2.46	1.08	1.55	0.578	0.319	7.61	1.26	0.089	3.47	0.297	0.238
Acenaphthylene	ug/kg	6.30	2.66	1.43	0.554	0.155	9.75	1.13	0.131	6.45	0.385	0.092
Anthracene	ug/kg	13.6	5.00	2.09	0.760	0.154	6.31	--	--	--	0.264	--
Benzo(a)Anthracene	ug/kg	10.5	5.47	2.62	1.19	0.227	22.0	1.31	0.307	15.5	--	--
Benzo(a)Pyrene	ug/kg	9.81	4.58	3.27	1.16	--	21.3	2.69	0.136	17.7	0.802	--
Benzo(b)Fluoranthene	ug/kg	41.5	25.2	10.9 J	5.82	2.08	53.9	9.77	0.799	46.7	3.23	0.377
Benzo(g,h,i)Perylene	ug/kg	--	7.77	5.96	2.13	0.402	44.9	4.76	0.390	32.8	0.954	0.188
Benzo(j)+(k)Fluoranthene	ug/kg	11.8	6.01	2.29	1.03	0.196	15.9	2.44	0.179	14.8	0.685	0.064 J
Chrysene/Triphenylene	ug/kg	22.8	14.1	9.00	4.55	1.74	153	15.6	0.968	113	--	--
Dibenz(a,h)Anthracene	ug/kg	6.89	3.58	2.54	1.37	0.166	9.83	1.20	0.113	7.25	0.351	0.277
Fluoranthene	ug/kg	24.0	12.0	9.81 J	4.98	1.62	51.4	11.3	1.70	47.1	3.37	1.54
Fluorene	ug/kg	12.2	7.45	9.75 J	4.41	3.85	46.1	8.59	3.37	16.5	4.13	5.02
Indeno[1,2,3-cd]pyrene	ug/kg	--	8.25	5.30	2.16	0.488	17.4	2.65	0.249	14.0	0.914	--
Naphthalene	ug/kg	9.78	5.65	11.9 J	6.95	4.92	15.3	12.2	3.72	14.6	7.42	6.23
Phenanthrene	ug/kg	24.4	14.1	23.1 J	10.9	8.89	225	39.6	10.2	161	11.7	12.1
Pyrene	ug/kg	19.8	9.74	8.05 J	3.55	1.20	101	12.5	1.36	65.4	2.66	1.16
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	16.0	10.1	5.64 J	2.90	--	53.4	6.82	0.614	43.8	1.52	--
C1-Chrysenes	ug/kg	42.0	49.7	48.1	28.2	--	335	34.9	2.60	236	8.20	4.89
C1-Fluoranthenes/Pyrenes	ug/kg	18.8	12.6	9.47	4.17	0.928	355	31.4	1.72	201	3.44	0.819
C1-Fluorenes	ug/kg	3.50	2.47	7.35	2.55	1.69	215	20.7	2.16	89.7	2.56	2.29
C1-Phenanthrenes/Anthracenes	ug/kg	26.4	16.8	14.4	6.15	3.99	831	77.4	6.83	516	9.28	4.34
C2-Chrysenes	ug/kg	36.7	28.1	20.7	7.14	--	484	38.9	3.07	324	4.96	--
C2-Fluorenes	ug/kg	13.6	8.74	20.4	7.32	4.79	628	64.2	6.62	314	7.91	2.88
C2-Naphthalenes	ug/kg	18.9	13.2	23.7	8.24	4.10	614	63.7	6.30	252	9.50	8.84
C2-Phenanthrenes/Anthracenes	ug/kg	26.0	23.9	22.5	8.84	--	1570	138	10.6	1008	14.7	4.31
C3-Chrysenes	ug/kg	19.5	18.9	18.1	9.10	--	407	28.5	2.58	254	4.08	--
C3-Fluorenes	ug/kg	9.80	6.80	16.5	6.16	--	920	71.7	6.63	501	12.5	--
C3-Naphthalenes	ug/kg	18.8	11.9	26.1	13.3	8.87	1196	101	8.54	590	13.0	7.79
C3-Phenanthrenes/Anthracenes	ug/kg	26.8	18.4	21.1	6.09	--	1736	145	10.3	1088	16.7	0.940
C4-Chrysenes	ug/kg	13.8	13.8	7.08	--	--	164	16.9	--	125	--	--
C4-Naphthalenes	ug/kg	13.4	6.88	17.3	5.76	2.94	1474	97.3	8.10	697	10.6	4.88
C4-Phenanthrenes/Anthracenes	ug/kg	17.3	16.2	17.1	6.39	--	1194	107	6.67	758	11.0	--
Perylene	ug/kg	397	324	145	94.4 J	226	15.6	29.8	R	24.9	111 J	212.1 J
Phenanthrene, 2-methyl-	ug/kg	NA	NA	4.61 J	NA	NA	288 J	NA	NA	182 J	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	3.62	NA	NA	16.5	NA	NA	9.97	NA	NA
18a-Oleanane	ug/kg	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	2.47	NA	NA	274	NA	NA	158	NA	NA
1-Methylfluorene	ug/kg	NA	NA	4.01	NA	NA	152	NA	NA	61.6	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	3.17	NA	NA	187	NA	NA	123	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	3.19	NA	NA	184	NA	NA	82.6	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	3.60	NA	NA	369	NA	NA	234	NA	NA
2-Methylanthracene	ug/kg	NA	NA	3.11	NA	NA	16.8	NA	NA	9.05	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	1.11 J	NA	NA	35.4	NA	NA	25.8	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	1.15	NA	NA	100	NA	NA	76.4	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	4.08	NA	NA	208	NA	NA	131	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	4.79 J	NA	NA	446	NA	NA	287	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	3.79	NA	NA	386	NA	NA	228	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-041	SED-DA-041	SED-DA-042	SED-DA-042	SED-DA-042	SED-DA-043	SED-DA-043	SED-DA-043	SED-DA-044	SED-DA-044	SED-DA-044
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/14/2013	8/14/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
Sample ID		SED-DA-041(0.5-1.0)	SED-DA-041(1.0-1.5)	SED-DA-042(0.0-0.5)	SED-DA-042(0.5-1.0)	SED-DA-042(1.0-1.5)	SED-DA-043(0.0-0.5)	SED-DA-043(0.5-1.0)	SED-DA-043(1.0-1.5)	SED-DA-044(0.0-0.5)	SED-DA-044(0.5-1.0)	SED-DA-044(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	NA	NA	2.44	NA	NA	12.2	NA	NA	--	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	2.19 J	NA	NA	27.8	NA	NA	17.3	NA	NA
Benzothiophene	ug/kg	NA	NA	0.789	NA	NA	3.31	NA	NA	2.06	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	44.3	NA	NA	17.9	NA	NA
C1-Decalins	ug/kg	NA	NA	36.4	NA	NA	14.7	NA	NA	13.8	NA	NA
C1-Dibenzothiophenes	ug/kg	7.52	4.82	9.11	2.18	0.443	914	79.1	4.84	570	6.23	0.858
C1-Naphthalenes	ug/kg	8.29	5.02	13.0	5.38	3.04	96.0	23.4	3.66	46.9	5.81	5.83
C1-Naphthobenzothiophenes	ug/kg	NA	NA	15.9	NA	NA	681	NA	NA	468	NA	NA
C20-TAS	ug/kg	NA	NA	--	NA	NA	51.0	NA	NA	36.9	NA	NA
C21-TAS	ug/kg	NA	NA	--	NA	NA	55.5	NA	NA	39.8	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	--	NA	NA	170	NA	NA	129	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	--	NA	NA	54.7	NA	NA	46.6	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	--	NA	NA	120	NA	NA	52.2	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	--	NA	NA	120	NA	NA	87.9	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	--	NA	NA	140	NA	NA	106	NA	NA
C29-Hopane	ug/kg	NA	NA	32.8	NA	NA	908	NA	NA	729	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	128	NA	NA	16.1	NA	NA
C2-Decalins	ug/kg	NA	NA	3.90	NA	NA	89.4	NA	NA	48.3	NA	NA
C2-Dibenzothiophenes	ug/kg	14.4	10.0	15.9	3.99	--	1803	147	8.74	1257	13.4	1.22
C2-Fluoranthenes/Pyrenes	ug/kg	30.6	21.2	18.4	5.59	--	476	50.4	3.06	339	5.23	--
C2-Naphthobenzothiophenes	ug/kg	NA	NA	32.6	NA	NA	1008	NA	NA	715	NA	NA
C30-Hopane	ug/kg	NA	NA	28.5	NA	NA	1223	NA	NA	1035	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	363	NA	NA	119	NA	NA
C3-Decalins	ug/kg	NA	NA	8.57	NA	NA	402	NA	NA	226	NA	NA
C3-Dibenzothiophenes	ug/kg	21.5	15.7	23.0	6.26	--	2264	173	10.8	1553	15.6	1.12
C3-Fluoranthenes/Pyrenes	ug/kg	19.9	15.4	14.0	4.42	--	475	40.0	2.25	347	3.30	--
C3-Naphthobenzothiophenes	ug/kg	NA	NA	29.7	NA	NA	783	NA	NA	565	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	564	NA	NA	249	NA	NA
C4-Decalins	ug/kg	NA	NA	12.7	NA	NA	595	NA	NA	380	NA	NA
C4-Dibenzothiophenes	ug/kg	25.0	17.0	18.8	5.85	--	1537	117	7.33	1191	11.9	0.651
C4-Fluoranthenes/Pyrenes	ug/kg	16.3	14.0	19.5	11.5	--	368	37.2	3.45	364	6.28	--
C4-Naphthobenzothiophenes	ug/kg	NA	NA	11.4	NA	NA	423	NA	NA	324	NA	NA
Carbazole	ug/kg	NA	NA	1.10	NA	NA	8.68	NA	NA	8.27	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	13.6 J	NA	NA	7.19	NA	NA	7.46	NA	NA
Dibenzofuran	ug/kg	NA	NA	6.84	NA	NA	24.7	NA	NA	12.6	NA	NA
Dibenzothiophene	ug/kg	5.38	3.03	3.87 J	1.30	0.519	263	23.3	1.58	144	1.86	0.828
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	10.7 J	NA	NA	267	NA	NA	108	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	5.68	NA	NA	256	NA	NA	183	NA	NA
Retene	ug/kg	NA	NA	4.23 J	NA	NA	132	NA	NA	101	NA	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	933	NA	NA	6440	NA	NA	5575	NA	NA
i-C15	mg/kg	NA	NA	0.023	NA	NA	0.936	NA	NA	0.487	NA	NA
i-C16	mg/kg	NA	NA	0.042	NA	NA	1.732	NA	NA	0.863	NA	NA
i-C18	mg/kg	NA	NA	0.016	NA	NA	1.611	NA	NA	0.916	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.011 J	NA	NA	0.020 J	NA	NA	0.023	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.024	NA	NA	0.033	NA	NA	0.045	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.062	NA	NA	0.126	NA	NA	0.099	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.047	NA	NA	0.317	NA	NA	0.181	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.106	NA	NA	0.670	NA	NA	0.354	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.061	NA	NA	1.006	NA	NA	1.285	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.071	NA	NA	1.030	NA	NA	0.498	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	0.091	NA	NA	0.691	NA	NA	0.374	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	0.319	NA	NA	1.230	NA	NA	0.879	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	0.401	NA	NA	1.243	NA	NA	0.687	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.055	NA	NA	0.655	NA	NA	0.348	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	0.601	NA	NA	1.276	NA	NA	1.765	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.104	NA	NA	1.269	NA	NA	1.106	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	0.988	NA	NA	1.341	NA	NA	1.291	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.170	NA	NA	0.624	NA	NA	0.530	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	0.804	NA	NA	1.025	NA	NA	1.798	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	1.160	NA	NA	0.602	NA	NA	0.678	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	1.355 J	NA	NA	2.889	NA	NA	5.400	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.410	NA	NA	1.119	NA	NA	1.245	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	4.489	NA	NA	3.775	NA	NA	9.887	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.387	NA	NA	1.137	NA	NA	1.498	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	5.046	NA	NA	6.704	NA	NA	10.512	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-041	SED-DA-041	SED-DA-042	SED-DA-042	SED-DA-042	SED-DA-043	SED-DA-043	SED-DA-043	SED-DA-044	SED-DA-044	SED-DA-044
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		8/14/2013	8/14/2013	8/9/2013	8/9/2013	8/9/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
Sample ID		SED-DA-041(0.5-1.0)	SED-DA-041(1.0-1.5)	SED-DA-042(0.0-0.5)	SED-DA-042(0.5-1.0)	SED-DA-042(1.0-1.5)	SED-DA-043(0.0-0.5)	SED-DA-043(0.5-1.0)	SED-DA-043(1.0-1.5)	SED-DA-044(0.0-0.5)	SED-DA-044(0.5-1.0)	SED-DA-044(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	NA	NA	0.429	NA	NA	1.721	NA	NA	4.199	NA	NA
n-C33	mg/kg	NA	NA	6.953	NA	NA	15.660	NA	NA	24.357	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	0.596	NA	NA	0.760	NA	NA	3.041	NA	NA
n-C35	mg/kg	NA	NA	2.277 J	NA	NA	5.847	NA	NA	10.723	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.558	NA	NA	0.246	NA	NA	0.893	NA	NA
n-C37	mg/kg	NA	NA	1.045	NA	NA	1.194	NA	NA	6.603	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.165	NA	NA	0.115	NA	NA	0.638	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.239	NA	NA	0.279	NA	NA	0.294	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	0.040	NA	NA	0.173	NA	NA	0.155	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	--	NA	NA	--	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	0.106	NA	NA	2.246	NA	NA	1.591	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	0.083	NA	NA	2.177	NA	NA	1.412	NA	NA
Total Alkanes	mg/kg	NA	NA	29.3	NA	NA	63.5	NA	NA	96.7	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	415	NA	NA	2604	NA	NA	2542	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	178	NA	NA	354	NA	NA	448	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	237	NA	NA	2249	NA	NA	2093	NA	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	4 J	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	10 J	--	--	3 J	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	22 J	--	--	--	--	--	8 J	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	120	110	130	22 J	12 J	41	15 J	--	46	--	--
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	3 J	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	4 J	--	--
Trichloroethene	ug/kg	11 J	15 J	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	12 J	--	--	3 J	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-045	SED-DA-045	SED-DA-045	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-047	SED-DA-047	SED-DA-047	SED-DA-048
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/10/2013	8/10/2013	8/14/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-045(0.0-0.5)	SED-DA-045(0.5-1.0)	SED-DA-045(1.0-1.5)	SED-DA-046(0.0-0.5)	SED-DA-DUP-07-081213FD	SED-DA-046(0.5-1.0)	SED-DA-046(1.0-1.5)	SED-DA-047(0.0-0.5)	SED-DA-047(0.5-1.0)	SED-DA-047(1.0-1.5)	SED-DA-048(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	3.79 J	6.55	2.07 J	5.26	5.64	8.12	5.27	5.37	6.31	4.75	11.5
Barium	mg/kg	69.4	132	86.3	98.4	99.6	175	102	110	140	78.6	202
Cadmium	mg/kg	--	--	0.168 J	--	--	--	--	--	--	--	--
Chromium	mg/kg	8.92	16.1	12.2 J	14.5 J	14.7 J	20.6 J	16.3 J	16.3 J	14.4 J	14.2 J	25.7 J
Lead	mg/kg	14.0	22.5	10.4	19.4	21.2	260	13.2	22.0	16.2	12.3	38.8
Mercury	mg/kg	--	0.0470 J	0.0533 J	0.0386 J	0.0383 J	0.0619 J	0.0233 J	0.0417 J	0.0264 J	0.0190 J	0.0979 J
Nickel	mg/kg	7.82	14.0	9.37	11.5	11.8	17.3	11.1	12.9	15.3	11.6	24.9
Selenium	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	15.5	27.9	21.4	24.4	25.2	35.8	27.2	27.1	26.0	24.4	41.2
Other												
Black Carbon	%	0.24 J	NA	NA	--	0.17 J	NA	NA	0.16 J	NA	NA	0.28 J
Percent Moisture	%	53.2	40.7	23.1	35.8	38.7	40.3	21.2	24.9	23.9	23.4	59.3
Total Organic Carbon	%	4.64	NA	NA	3.36	3.3	NA	NA	3.17	NA	NA	6.41
Priority PAHs												
1-Methylnaphthalene	ug/kg	371	64.2	0.73	105	131	69.1	1.83	19.8	4.13	1.48	127
2-Methylnaphthalene	ug/kg	492	87.5	1.41	141	184	101	3.56	26.1	7.97	2.91	171
Acenaphthene	ug/kg	26.8	7.83	--	10.5	14.4	8.29	0.160	--	0.545	--	14.9 J
Acenaphthylene	ug/kg	30.7	5.49	--	9.09	12.0	4.18	0.111	4.18	0.244	0.093	14.6 J
Anthracene	ug/kg	38.0	6.97	4.25	11.6	16.7	--	0.158	3.72	0.178	0.140	11.4
Benzo(a)Anthracene	ug/kg	60.0	12.4	0.133 J	14.0 J	29.8 J	9.73	--	23.6	--	0.119 J	34.1
Benzo(a)Pyrene	ug/kg	90.9	16.0	--	24.5	26.0	11.2	--	17.4	--	--	28.9
Benzo(b)Fluoranthene	ug/kg	142	33.5	--	42.2	48.2	22.6	0.342	42.0	1.31	--	59.0
Benzo(g,h,i)Perylene	ug/kg	189	35.4	--	47.0	44.9	19.5	0.149	36.4	0.278	--	54.9
Benzo(j)+(k)Fluoranthene	ug/kg	41.4	10.8	--	13.7	17.3	6.95	0.106	13.2	0.273	--	14.6 J
Chrysene/Triphenylene	ug/kg	275	57.6	0.253	113	103	45.7	--	116	--	0.319	108
Dibenz(a,h)Anthracene	ug/kg	32.6	6.77	--	9.13	10.1	5.04	--	8.17	0.437	0.985	10.8
Fluoranthene	ug/kg	126 J	35.2 J	0.642	47.4	53.3	24.6	2.06	50.3	1.78	0.663	64.1
Fluorene	ug/kg	179	33.4	1.91	57.1	82.5	46.6	2.57	13.4	6.67	2.22	83.2
Indeno[1,2,3-cd]pyrene	ug/kg	50.8	13.4	--	14.0	18.3	8.13	--	14.5	0.488	--	23.2
Naphthalene	ug/kg	44.6	10.4	--	12.9	20.4	17.0	3.80	5.56	8.88	3.46	23.6 J
Phenanthrene	ug/kg	669	147	3.49	278	236	124	5.70	152	16.6	4.50	238
Pyrene	ug/kg	193	46.0	--	76.8	73.9 J	42.7	0.810	77.5 J	1.02	--	81.3 J
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	171	34.0	0.139 J	45.7	55.5	24.5	--	50.9	--	0.178	58.5
C1-Chrysenes	ug/kg	922	205	0.559	302	296	154	--	251	--	15.9	294
C1-Fluoranthenes/Pyrenes	ug/kg	1032	211	0.593	298	394	142	1.09	315	1.04	0.580	343
C1-Fluorenes	ug/kg	714	127	0.722	223	319	156	1.43	69.0	2.68	0.913	312
C1-Phenanthrenes/Anthracenes	ug/kg	2302	533	--	841	799	373	3.82	628	5.68	--	800
C2-Chrysenes	ug/kg	1336	245	0.568	451	375	185	--	346	--	2.59	445
C2-Fluorenes	ug/kg	2021	326	1.92	587	632	398	--	299	4.68	1.61	795
C2-Naphthalenes	ug/kg	2538	426	2.99	745	960	465	5.80	226	12.7	3.94	--
C2-Phenanthrenes/Anthracenes	ug/kg	4461	971	--	1304	1282	640	6.96	1105	6.77	--	1245
C3-Chrysenes	ug/kg	1095	209	0.429	306	307	138	--	224	--	0.811	303
C3-Fluorenes	ug/kg	2244	304	1.05	667	690	413	--	439	--	0.962	800
C3-Naphthalenes	ug/kg	4265	704	4.87	1124	1463	776	7.73	504	15.0	5.77	1541
C3-Phenanthrenes/Anthracenes	ug/kg	4853	1079	--	1411	1432	640	3.36	1454	2.62	--	1271
C4-Chrysenes	ug/kg	753	146	--	168	138	68.3	--	139	--	0.722	176
C4-Naphthalenes	ug/kg	4045	631	2.77	1140	1530	672	4.15	671	13.6	1.68	1393
C4-Phenanthrenes/Anthracenes	ug/kg	3212	841	--	1072	997	462	--	853	2.17	--	961
Perylene	ug/kg	133	371	1.23 J	37.1	34.8	64.8	7.39 J	59.7	192	7.01	114
Phenanthrene, 2-methyl-	ug/kg	728 J	NA	NA	286 J	335	NA	NA	247	NA	NA	339
1,1-Biphenyl	ug/kg	80.5	NA	NA	25.0	33.6	NA	NA	7.73	NA	NA	33.5
18a-Oleanane	ug/kg	--	NA	NA	--	--	NA	NA	--	NA	NA	--
1-Methyldibenzothiophene(1MDT)	ug/kg	638	NA	NA	251	270	NA	NA	216	NA	NA	270
1-Methylfluorene	ug/kg	489	NA	NA	186	216	NA	NA	44.3	NA	NA	212
1-Methylphenanthrene	ug/kg	519	NA	NA	196	219	NA	NA	181	NA	NA	225
2,3,5-Trimethylnaphthalene	ug/kg	496	NA	NA	169	219	NA	NA	78.8	NA	NA	208
2/3-Methyldibenzothiophene(2MDT)	ug/kg	982	NA	NA	388	361	NA	NA	317	NA	NA	351
2-Methylanthracene	ug/kg	68.6	NA	NA	30.1	27.2	NA	NA	13.3	NA	NA	28.6
2-Methylfluoranthene	ug/kg	68.6	NA	NA	27.7	25.3	NA	NA	25.1	NA	NA	24.1 J
3,6-Dimethylphenanthrene	ug/kg	217	NA	NA	93.0	124	NA	NA	96.8	NA	NA	127
3-Methylphenanthrene (3MP)	ug/kg	677 J	NA	NA	228	239	NA	NA	202	NA	NA	232
4-Methyldibenzothiophene(4MDT)	ug/kg	1236	NA	NA	473	445	NA	NA	417	NA	NA	434
9/4-Methylphenanthrene (9MP)	ug/kg	1012	NA	NA	358	423	NA	NA	335	NA	NA	420

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-045	SED-DA-045	SED-DA-045	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-047	SED-DA-047	SED-DA-047	SED-DA-048
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
	Sample Date	8/10/2013	8/10/2013	8/14/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
	Sample ID	SED-DA-045(0.0-0.5)	SED-DA-045(0.5-1.0)	SED-DA-045(1.0-1.5)	SED-DA-046(0.0-0.5)	SED-DA-DUP-07-081213FD	SED-DA-046(0.5-1.0)	SED-DA-046(1.0-1.5)	SED-DA-047(0.0-0.5)	SED-DA-047(0.5-1.0)	SED-DA-047(1.0-1.5)	SED-DA-048(0.0-0.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	20.1	NA	NA	--	--	NA	NA	--	NA	NA	--
Benzo(b)fluorene	ug/kg	90.9	NA	NA	33.1	37.4	NA	NA	12.1	NA	NA	39.5
Benzothiophene	ug/kg	14.1	NA	NA	1.81 J	3.06 J	NA	NA	1.04	NA	NA	3.26
C1-Benzo(b)thiophenes	ug/kg	128	NA	NA	25.2	35.8	NA	NA	9.24	NA	NA	43.5
C1-Decalins	ug/kg	--	NA	NA	5.62 J	10.8 J	NA	NA	2.58	NA	NA	7.16
C1-Dibenzothiophenes	ug/kg	2554	626	1.03	933	886	443	1.41	783	1.83	0.547	869
C1-Naphthalenes	ug/kg	549	96.5	1.38	159	207	110	3.51	30.1	7.87	2.82	196
C1-Naphthobenzothiophenes	ug/kg	1615	NA	NA	581	648	NA	NA	691	NA	NA	659
C20-TAS	ug/kg	96.9	NA	NA	--	--	NA	NA	--	NA	NA	42.8
C21-TAS	ug/kg	130	NA	NA	--	--	NA	NA	--	NA	NA	60.5
C26(20R)/C27(20S)-TAS	ug/kg	458	NA	NA	--	--	NA	NA	--	NA	NA	166
C26(20S)-TAS	ug/kg	153	NA	NA	--	--	NA	NA	--	NA	NA	50.4
C27(20R)-TAS	ug/kg	354	NA	NA	--	--	NA	NA	--	NA	NA	106
C28(20R)-TAS	ug/kg	365	NA	NA	--	--	NA	NA	--	NA	NA	128
C28(20S)-TAS	ug/kg	455	NA	NA	--	--	NA	NA	--	NA	NA	138
C29-Hopane	ug/kg	2538	NA	NA	745	966	NA	NA	810	NA	NA	910
C2-Benzo(b)thiophenes	ug/kg	519	NA	NA	138	188	NA	NA	44.6	NA	NA	169
C2-Decalins	ug/kg	--	NA	NA	39.0	45.3	NA	NA	11.2	NA	NA	32.0
C2-Dibenzothiophenes	ug/kg	5099	1152	1.79	1693	1649	700	2.39	1491	2.27	0.752	1598
C2-Fluoranthenes/Pyrenes	ug/kg	1704	419	0.612	463	462	--	--	421	--	0.436 J	530
C2-Naphthobenzothiophenes	ug/kg	2633	NA	NA	842	916	NA	NA	1002	NA	NA	1052
C30-Hopane	ug/kg	3607	NA	NA	1022	1177	NA	NA	1098	NA	NA	1135
C3-Benzo(b)thiophenes	ug/kg	1257	NA	NA	370	494	NA	NA	110	NA	NA	450
C3-Decalins	ug/kg	--	NA	NA	246	253	NA	NA	60.8	NA	NA	216
C3-Dibenzothiophenes	ug/kg	6541	1393	1.89	1985	1674	906	3.39	1144	2.54	0.631	1924
C3-Fluoranthenes/Pyrenes	ug/kg	1924	313	0.557	451	502	--	--	417	--	0.388 J	526
C3-Naphthobenzothiophenes	ug/kg	2202	NA	NA	734	719	NA	NA	681	NA	NA	871
C4-Benzo(b)thiophenes	ug/kg	1732	NA	NA	505	704	NA	NA	253	NA	NA	647
C4-Decalins	ug/kg	--	NA	NA	450	382	NA	NA	172	NA	NA	366
C4-Dibenzothiophenes	ug/kg	4873	1067	1.84	1376	1362	569	2.77	1156	1.55	0.502	1349
C4-Fluoranthenes/Pyrenes	ug/kg	2082	368	0.369 J	409	367	--	--	368	--	0.356 J	499
C4-Naphthobenzothiophenes	ug/kg	977	NA	NA	361	261	NA	NA	339	NA	NA	442
Carbazole	ug/kg	--	NA	NA	11.4 J	--	NA	NA	--	NA	NA	10.8
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	--	NA	NA	3.99	5.13	NA	NA	3.10	NA	NA	4.15
Dibenzofuran	ug/kg	72.7	NA	NA	22.5	32.2	NA	NA	11.4	NA	NA	33.3
Dibenzothiophene	ug/kg	562	165	0.435	272	260	140	0.608	170	1.34	0.427	291
Naphthalene, 2,6-dimethyl-	ug/kg	1042	NA	NA	325	409	NA	NA	93.5	NA	NA	369
Naphthobenzothiophene	ug/kg	499	NA	NA	210	272	NA	NA	257	NA	NA	277
Retene	ug/kg	241	NA	NA	116	97.3	NA	NA	103	NA	NA	94.2
TPH												
EOM (Extracted Organic Material)	mg/kg	15754	NA	NA	5469	7876	NA	NA	4196	NA	NA	7418
i-C15	mg/kg	4.689	NA	NA	1.209	1.089	NA	NA	0.118	NA	NA	0.909
i-C16	mg/kg	5.886	NA	NA	1.888	1.594	NA	NA	0.173	NA	NA	1.547
i-C18	mg/kg	4.463	NA	NA	1.795	1.572	NA	NA	0.270	NA	NA	1.755
n-C10 (n-Decane)	mg/kg	0.203	NA	NA	0.023	0.033	NA	NA	--	NA	NA	0.023
n-C11 (n-Undecane)	mg/kg	1.276	NA	NA	0.031	0.046	NA	NA	0.013 J	NA	NA	0.061
n-C12 (n-Dodecane)	mg/kg	3.489	NA	NA	0.044 J	0.152 J	NA	NA	0.016 J	NA	NA	0.179
n-C13 (n-Tridecane)	mg/kg	4.658	NA	NA	0.153 J	0.631 J	NA	NA	0.019 J	NA	NA	0.503
n-C14 (n-Tetradecane)	mg/kg	5.589	NA	NA	0.393 J	1.178 J	NA	NA	0.071	NA	NA	1.101
n-C15 (Pentadecane)	mg/kg	6.625	NA	NA	0.743 J	1.877 J	NA	NA	0.133	NA	NA	1.900 J
n-C16 (n-Hexadecane)	mg/kg	6.172	NA	NA	0.845 J	1.790 J	NA	NA	0.126	NA	NA	2.024 J
n-C17 (Heptadecane)	mg/kg	4.189	NA	NA	0.540 J	1.248 J	NA	NA	0.058	NA	NA	1.610 J
n-C18 (Octadecane)	mg/kg	4.405	NA	NA	0.896	1.468	NA	NA	0.578	NA	NA	2.181 J
n-C19 (Nonadecane)	mg/kg	4.856	NA	NA	1.043	1.558	NA	NA	0.342	NA	NA	2.356 J
n-C20 (Eicosane)	mg/kg	3.643	NA	NA	0.650 J	1.165 J	NA	NA	0.208	NA	NA	1.502 J
n-C21 (Heneicosane)	mg/kg	3.799	NA	NA	1.147	1.353	NA	NA	0.421	NA	NA	3.198
n-C22 (Docosane)	mg/kg	3.225	NA	NA	1.279	1.022	NA	NA	0.278	NA	NA	1.480 J
n-C23 (Tricosane)	mg/kg	3.717	NA	NA	1.344	1.492	NA	NA	0.773	NA	NA	3.770
n-C24 (Tetracosane)	mg/kg	2.773	NA	NA	0.501	0.774	NA	NA	0.237	NA	NA	1.176
n-C25 (Pentacosane)	mg/kg	2.784	NA	NA	1.021	1.210	NA	NA	0.810	NA	NA	2.950
n-C26 (Hexacosane)	mg/kg	1.978	NA	NA	0.510	0.614	NA	NA	0.252	NA	NA	0.791
n-C27 (Heptacosane)	mg/kg	3.533	NA	NA	2.635	2.450	NA	NA	2.832	NA	NA	4.027
n-C28 (Octacosane)	mg/kg	1.610	NA	NA	0.816	0.815	NA	NA	0.732	NA	NA	1.206
n-C29 (Nonacosane)	mg/kg	7.644	NA	NA	3.125 J	5.476 J	NA	NA	6.666	NA	NA	7.555
n-C30 (n-Triacontane)	mg/kg	1.367	NA	NA	0.946 J	0.394 J	NA	NA	0.797	NA	NA	1.038
n-C31 (Hentriacontane)	mg/kg	8.269	NA	NA	5.499	5.221	NA	NA	5.552	NA	NA	9.252

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-045	SED-DA-045	SED-DA-045	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-046	SED-DA-047	SED-DA-047	SED-DA-047	SED-DA-048
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft
Sample Date		8/10/2013	8/10/2013	8/14/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013
Sample ID		SED-DA-045(0.0-0.5)	SED-DA-045(0.5-1.0)	SED-DA-045(1.0-1.5)	SED-DA-046(0.0-0.5)	SED-DA-DUP-07-081213FD	SED-DA-046(0.5-1.0)	SED-DA-046(1.0-1.5)	SED-DA-047(0.0-0.5)	SED-DA-047(0.5-1.0)	SED-DA-047(1.0-1.5)	SED-DA-048(0.0-0.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	1.810	NA	NA	1.963 J	0.628 J	NA	NA	0.943	NA	NA	1.300
n-C33	mg/kg	12.828	NA	NA	6.753	4.878	NA	NA	9.624	NA	NA	7.724
n-C34 (Tetratriacontane)	mg/kg	1.073	NA	NA	1.160 J	0.458 J	NA	NA	0.824	NA	NA	0.756
n-C35	mg/kg	6.429	NA	NA	5.161 J	1.979 J	NA	NA	5.724	NA	NA	3.293
n-C36 (Hexatriacontane)	mg/kg	0.541	NA	NA	0.612	0.385	NA	NA	0.335	NA	NA	0.426
n-C37	mg/kg	1.322	NA	NA	1.194	1.137	NA	NA	1.159	NA	NA	1.788
n-C38 (Octatriacontane)	mg/kg	0.212	NA	NA	0.557 J	0.119 J	NA	NA	0.122	NA	NA	0.279
n-C39 (Nonatriacontane)	mg/kg	0.489	NA	NA	0.282	0.240	NA	NA	0.193	NA	NA	0.539
n-C40 (Tetracontane)	mg/kg	0.300	NA	NA	0.156 J	--	NA	NA	--	NA	NA	0.075
n-C9 (Nonane)	mg/kg	--	NA	NA	--	--	NA	NA	--	NA	NA	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	6.873	NA	NA	2.265	2.449	NA	NA	0.802	NA	NA	2.827
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	6.707	NA	NA	2.217	2.143	NA	NA	0.652	NA	NA	2.508 J
Total Alkanes	mg/kg	139	NA	NA	51.4	50.6	NA	NA	41.9	NA	NA	75.6
Total Petroleum Hydrocarbons	mg/kg	6717	NA	NA	2385	2723	NA	NA	1807	NA	NA	2714
Total Resolveable Hydrocarbons	mg/kg	712	NA	NA	292	375	NA	NA	325	NA	NA	590
Unresolved Complex Mixture	mg/kg	6005	NA	NA	2093	2348	NA	NA	1482	NA	NA	2124
VOCs												
1,2,4-Trimethylbenzene	ug/kg	170	100	--	27	16	--	--	--	--	--	93 J
1,3,5-Trimethylbenzene	ug/kg	100	64	--	16	10	--	--	--	--	--	66 J
2-Butanone (MEK)	ug/kg	29	25	--	--	--	--	--	--	--	--	25 J
2-Phenylbutane	ug/kg	32	19	--	5 J	3 J	--	--	--	--	--	15 J
Acetone	ug/kg	110	120	15 J	26 J	26 J	11 J	--	15 J	9 J	--	100 J
Benzene	ug/kg	2 J	1 J	--	1 J	--	--	--	--	--	--	3 J
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	17	12	--	25	15	--	--	--	--	--	16 J
Isopropylbenzene (Cumene)	ug/kg	14	9 J	--	3 J	--	--	--	--	--	--	8 J
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	44	25	--	6 J	4 J	--	--	--	--	--	17 J
n-Propylbenzene	ug/kg	33	20	--	6 J	4 J	--	--	--	--	--	18 J
p-Isopropyltoluene (Cymene)	ug/kg	41	24	--	6 J	4 J	--	--	--	--	--	26 J
Toluene	ug/kg	5 J	3 J	--	4 J	4 J	3 J	--	--	--	--	120 J
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	110	61	--	23	13	--	--	--	--	--	81 J

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-048	SED-DA-048	SED-DA-049	SED-DA-049	SED-DA-049	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-051	SED-DA-051
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-048(0.5-1.0)	SED-DA-048(1.0-1.5)	SED-DA-049(0.0-0.5)	SED-DA-049(0.5-1.0)	SED-DA-049(1.0-1.5)	SED-DA-050(0.0-0.5)	SED-DA-DUP-08-081413	SED-DA-050(0.5-1.0)	SED-DA-050(1.0-1.5)	SED-DA-051(0.0-0.5)	SED-DA-051(0.5-1.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	8.38	4.23	9.40	13.0	4.31	4.60	5.90	2.67	4.41	13.9	7.47
Barium	mg/kg	241	96.9	214	186	134	132	164	69.8	61.8	236	259
Cadmium	mg/kg	--	--	--	--	--	0.345 J	0.370 J	0.207 J	0.263 J	0.804 J	0.485 J
Chromium	mg/kg	25.8 J	14.6 J	28.2 J	27.5 J	18.9 J	20.7 J	23.1 J	11.4 J	13.4 J	33.7 J	30.4 J
Lead	mg/kg	30.6	13.4	36.0	45.7	17.2	20.8	25.3	10.2	14.0	46.1	36.2
Mercury	mg/kg	0.0911 J	0.0311 J	0.0598 J	0.0693 J	0.0442 J	0.0304 J	0.0525 J	0.0276 J	0.0210 J	0.112 J	0.0861 J
Nickel	mg/kg	19.4	8.13	24.8	24.9	13.0	15.7	18.8	8.19	8.67	32.5	20.9
Selenium	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	45.4	27.1	42.8	42.6	32.6	33.5	40.0	20.1	25.0	52.7	61.2
Other												
Black Carbon	%	NA	NA	0.29 J	NA	NA	0.22 J	0.25 J	NA	NA	0.42 J	NA
Percent Moisture	%	53.0	24.0	58.3	48.9	27.4	36.9	56.1	20.8	20.7	68.4	64.3
Total Organic Carbon	%	NA	NA	8.23	NA	NA	4.8	5.3	NA	NA	13.03	NA
Priority PAHs												
1-Methylnaphthalene	ug/kg	7.87	2.05	91.2	16.8	3.21	8.51	13.3	0.391 J	--	75.8	4.34
2-Methylnaphthalene	ug/kg	12.7	4.00	129	29.4	6.26	13.6	20.0	0.799 J	--	102	7.50
Acenaphthene	ug/kg	1.36	0.35	8.96	2.04	0.636	2.06	1.88	0.165	--	11.5 J	1.21
Acenaphthylene	ug/kg	0.96	0.12	12.7	2.83	0.252	3.16	3.15	0.106	--	13.8 J	1.44
Anthracene	ug/kg	1.48	--	12.2	4.56	17.6	3.89	3.89	0.214	--	19.0	2.37
Benzo(a)Anthracene	ug/kg	2.71	--	18.0	6.52	0.397	3.93	3.14	0.228	0.079 J	13.8 J	3.63
Benzo(a)Pyrene	ug/kg	1.59	--	29.0	4.69	--	5.05	3.91	0.120	--	20.1	2.62
Benzo(b)Fluoranthene	ug/kg	7.55	0.37	83.2	32.0	1.46	23.7	22.5	0.747	--	64.5	14.0
Benzo(g,h,i)Perylene	ug/kg	3.14	0.22	34.2	17.0	0.388	13.1	13.4	--	--	54.6	3.74
Benzo(j)+(k)Fluoranthene	ug/kg	1.64	0.06 J	26.7	9.09	0.293	7.04 J	4.18 J	--	--	28.0	3.78
Chrysene/Triphenylene	ug/kg	9.21	--	68.0	26.7	1.14	11.7	11.2	0.494	0.121	35.9	10.4
Dibenz(a,h)Anthracene	ug/kg	1.26	--	8.27	3.43	0.169	3.22	2.84	--	--	8.44	2.60
Fluoranthene	ug/kg	7.17	0.93	59.2	19.0	2.56	12.6	12.5	1.14	0.631	47.6	8.81
Fluorene	ug/kg	7.65	4.07	41.6	12.0	6.27	6.87	8.71	1.55	1.81	40.8 J	6.46
Indeno[1,2,3-cd]pyrene	ug/kg	3.09	--	25.3	13.5	0.645	12.2	11.6	--	--	36.9	4.91
Naphthalene	ug/kg	13.1	4.75	28.0	19.9	7.04	5.52	8.59	--	--	26.7	6.00
Phenanthrene	ug/kg	21.9	--	114	31.7	16.7	15.6	17.5	3.19	4.70	88.1	12.9
Pyrene	ug/kg	5.24	0.47 J	72.2	15.7	1.82	8.87	9.74	--	--	41.5	6.17
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	3.34	--	46.4	18.2	--	12.9	12.0	0.282	--	39.8	5.45
C1-Chrysenes	ug/kg	33.1	--	176	105	--	32.9	28.9	0.181 J	0.094 J	111	35.6
C1-Fluoranthenes/Pyrenes	ug/kg	8.62	0.37 J	161	25.6	1.18	11.6	13.0	0.533	0.161 J	70.7	7.09
C1-Fluorenes	ug/kg	4.17	1.64	133	13.2	2.49	13.1	13.0	0.644	0.704	84.0	3.60
C1-Phenanthrenes/Anthracenes	ug/kg	20.5	--	323	38.2	5.59	22.9	22.7	--	--	141	13.9
C2-Chrysenes	ug/kg	15.8	--	215	63.6	--	22.8	19.2	0.663	0.283	86.2	17.2
C2-Fluorenes	ug/kg	14.5	--	381	48.1	4.68	22.4	28.7	1.03	2.044	156	11.4
C2-Naphthalenes	ug/kg	20.5	6.25	468	55.0	9.04	46.3	53.8	1.48	--	367	13.7
C2-Phenanthrenes/Anthracenes	ug/kg	26.7	--	556	65.7	--	32.9	33.9	--	--	208	14.6
C3-Chrysenes	ug/kg	12.2	--	161	56.3	--	17.8	13.9	0.499	0.850	55.0	7.63
C3-Fluorenes	ug/kg	21.4	--	444	32.5	--	31.2	31.8	0.675	0.913	199	9.34
C3-Naphthalenes	ug/kg	26.0	9.10	728	57.0	9.46	56.5	59.3	3.94	--	357	13.4
C3-Phenanthrenes/Anthracenes	ug/kg	18.0	--	737	74.1	--	27.4	29.9	--	--	250	14.2
C4-Chrysenes	ug/kg	8.00	--	121	31.2	--	8.56	9.39	--	--	55.5	5.87
C4-Naphthalenes	ug/kg	10.5	3.22	684	37.5	9.01	40.0	36.2	2.07	1.30	284	4.63
C4-Phenanthrenes/Anthracenes	ug/kg	8.80	--	497	61.8	--	17.2	21.2	--	--	170	9.63
Perylene	ug/kg	--	238	36.5	83.0 J	141	140	157	61.7	5.27	103	378
Phenanthrene, 2-methyl-	ug/kg	NA	NA	101 J	NA	NA	9.41	8.63	NA	NA	57.6	NA
1,1-Biphenyl	ug/kg	NA	NA	23.5	NA	NA	3.82	4.48	NA	NA	21.1 J	NA
18a-Oleanane	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	128	NA	NA	6.29	6.20	NA	NA	51.1	NA
1-Methylfluorene	ug/kg	NA	NA	91.4	NA	NA	7.56	7.48	NA	NA	55.0	NA
1-Methylphenanthrene	ug/kg	NA	NA	99.0	NA	NA	5.03	6.26	NA	NA	39.8	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	97.1	NA	NA	6.53	6.49	NA	NA	46.7	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	148	NA	NA	9.32	8.18	NA	NA	66.4	NA
2-Methylanthracene	ug/kg	NA	NA	8.15	NA	NA	4.64	5.19	NA	NA	8.23	NA
2-Methylfluoranthene	ug/kg	NA	NA	15.5	NA	NA	1.49	1.41	NA	NA	5.89	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	69.1	NA	NA	2.71 J	1.48 J	NA	NA	19.9 J	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	92.0	NA	NA	6.48	6.78	NA	NA	44.1	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	215	NA	NA	10.9	10.5	NA	NA	79.6	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	122	NA	NA	9.53	7.99	NA	NA	66.1	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-048	SED-DA-048	SED-DA-049	SED-DA-049	SED-DA-049	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-051	SED-DA-051
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
	Sample Date	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-048(0.5-1.0)	SED-DA-048(1.0-1.5)	SED-DA-049(0.0-0.5)	SED-DA-049(0.5-1.0)	SED-DA-049(1.0-1.5)	SED-DA-050(0.0-0.5)	SED-DA-DUP-08-081413	SED-DA-050(0.5-1.0)	SED-DA-050(1.0-1.5)	SED-DA-051(0.0-0.5)	SED-DA-051(0.5-1.0)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	NA	NA	9.81	NA	NA	4.80	4.33	NA	NA	21.0	NA
Benzo(b)fluorene	ug/kg	NA	NA	15.6	NA	NA	1.87	1.77	NA	NA	9.89	NA
Benzothiophene	ug/kg	NA	NA	3.11	NA	NA	0.54	0.634	NA	NA	2.94	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	35.5	NA	NA	2.55 J	--	NA	NA	48.2	NA
C1-Decalins	ug/kg	NA	NA	11.8	NA	NA	--	--	NA	NA	11.9	NA
C1-Dibenzothiophenes	ug/kg	7.70	--	413	31.6	1.15	20.8	19.6	0.259	0.139	155	4.91
C1-Naphthalenes	ug/kg	13.3	3.99	143	30.0	6.17	14.9	22.3	0.766 J	--	119	7.62
C1-Naphthobenzothiophenes	ug/kg	NA	NA	241	NA	NA	29.8	26.4	NA	NA	86.4	NA
C20-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C21-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C26(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C27(20R)-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C28(20R)-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C28(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
C29-Hopane	ug/kg	NA	NA	541	NA	NA	--	--	NA	NA	--	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	94.6	NA	NA	9.89 J	--	NA	NA	80.0	NA
C2-Decalins	ug/kg	NA	NA	38.6	NA	NA	--	--	NA	NA	--	NA
C2-Dibenzothiophenes	ug/kg	15.6	0.67	672	60.1	1.30	34.0	31.3	0.458	0.181 J	240	9.40
C2-Fluoranthenes/Pyrenes	ug/kg	11.5	--	222	41.6	--	18.1	16.9	0.343 J	0.216 J	125	10.7
C2-Naphthobenzothiophenes	ug/kg	NA	NA	415	NA	NA	47.5	32.7	NA	NA	155	NA
C30-Hopane	ug/kg	NA	NA	636	NA	NA	--	--	NA	NA	--	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	212	NA	NA	16.4 J	--	NA	NA	129	NA
C3-Decalins	ug/kg	NA	NA	228	NA	NA	--	--	NA	NA	--	NA
C3-Dibenzothiophenes	ug/kg	14.1	0.72	1010	97	1.28	39.7	38.5	0.480	0.185 J	260	13.9
C3-Fluoranthenes/Pyrenes	ug/kg	10.7	--	165	42.0	--	17.1 J	7.83 J	0.319 J	0.087 J	84.9	8.49
C3-Naphthobenzothiophenes	ug/kg	NA	NA	352	NA	NA	37.6	26.3	NA	NA	136	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	290	NA	NA	15.5 J	--	NA	NA	125	NA
C4-Decalins	ug/kg	NA	NA	337	NA	NA	--	--	NA	NA	--	NA
C4-Dibenzothiophenes	ug/kg	10.3	--	623	91.2	--	30.5	26.4	0.370	0.130 J	201	14.8
C4-Fluoranthenes/Pyrenes	ug/kg	7.37	--	215	58.1	--	19.7	21.4	0.203 J	--	92.0	9.83
C4-Naphthobenzothiophenes	ug/kg	NA	NA	187	NA	NA	17.3 J	7.49 J	NA	NA	50.2	NA
Carbazole	ug/kg	NA	NA	13.8	NA	NA	2.90	3.40	NA	NA	11.6 J	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	12.1	NA	NA	--	--	NA	NA	17.1 J	NA
Dibenzofuran	ug/kg	NA	NA	22.2	NA	NA	4.24	5.73	NA	NA	23.2 J	NA
Dibenzothiophene	ug/kg	3.05	--	127	14.1	1.09	10.1	10.0	0.276	0.165	71.3	3.08
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	206	NA	NA	18.4	21.2	NA	NA	141	NA
Naphthobenzothiophene	ug/kg	NA	NA	105	NA	NA	8.23	6.81	NA	NA	37.6	NA
Retene	ug/kg	NA	NA	110	NA	NA	2.55	2.89	NA	NA	17.3 J	NA
TPH												
EOM (Extracted Organic Material)	mg/kg	NA	NA	4111	NA	NA	1045	1128	NA	NA	5645	NA
i-C15	mg/kg	NA	NA	0.485	NA	NA	--	0.008 J	NA	NA	0.088	NA
i-C16	mg/kg	NA	NA	0.702	NA	NA	--	0.053 J	NA	NA	0.303	NA
i-C18	mg/kg	NA	NA	0.811	NA	NA	--	0.014	NA	NA	0.345	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.028	NA	NA	0.007 J	0.008 J	NA	NA	0.038	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.051	NA	NA	0.023	0.019	NA	NA	0.257	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.074	NA	NA	0.017 J	0.026	NA	NA	0.126	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.094	NA	NA	0.013 J	0.018 J	NA	NA	0.127	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.209	NA	NA	0.026	0.040	NA	NA	0.250	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.303	NA	NA	0.035	0.110	NA	NA	0.275	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.292	NA	NA	0.030	0.054	NA	NA	0.385	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	0.338	NA	NA	0.060	0.068	NA	NA	0.620	NA
n-C18 (Octadecane)	mg/kg	NA	NA	1.004	NA	NA	0.282	0.369	NA	NA	1.963	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	0.700	NA	NA	0.180	0.276	NA	NA	1.459 J	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.360	NA	NA	0.037 J	0.075 J	NA	NA	0.308	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	2.433	NA	NA	0.498	0.304	NA	NA	5.955	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.683	NA	NA	0.091	0.079	NA	NA	0.676	NA
n-C23 (Tricosane)	mg/kg	NA	NA	1.615	NA	NA	0.530	0.438	NA	NA	6.898	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.457	NA	NA	0.155	0.135	NA	NA	1.127	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	2.267	NA	NA	0.915	0.832	NA	NA	7.331	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	0.615	NA	NA	0.222	0.185	NA	NA	0.931	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	1.988	NA	NA	1.435	1.112	NA	NA	7.887	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.764	NA	NA	0.397	0.307	NA	NA	1.424	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	5.602	NA	NA	4.753	3.023	NA	NA	13.425	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.791	NA	NA	0.370	0.450	NA	NA	1.132	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	8.375	NA	NA	3.388	2.504	NA	NA	14.529	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-048	SED-DA-048	SED-DA-049	SED-DA-049	SED-DA-049	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-050	SED-DA-051	SED-DA-051
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft
Sample Date		8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/12/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
Sample ID		SED-DA-048(0.5-1.0)	SED-DA-048(1.0-1.5)	SED-DA-049(0.0-0.5)	SED-DA-049(0.5-1.0)	SED-DA-049(1.0-1.5)	SED-DA-050(0.0-0.5)	SED-DA-DUP-08-081413	SED-DA-050(0.5-1.0)	SED-DA-050(1.0-1.5)	SED-DA-051(0.0-0.5)	SED-DA-051(0.5-1.0)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	NA	NA	0.699	NA	NA	0.153 J	0.284 J	NA	NA	0.637	NA
n-C33	mg/kg	NA	NA	18.682	NA	NA	1.507	1.765	NA	NA	28.571	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	1.852	NA	NA	0.259	0.117	NA	NA	1.381 J	NA
n-C35	mg/kg	NA	NA	10.475	NA	NA	1.076	1.057	NA	NA	18.048	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.392	NA	NA	0.025 J	0.166 J	NA	NA	0.431	NA
n-C37	mg/kg	NA	NA	1.085	NA	NA	0.142	0.157	NA	NA	1.274	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.322	NA	NA	0.071	0.102	NA	NA	0.348	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.354	NA	NA	0.070	0.081	NA	NA	0.727	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	0.128	NA	NA	0.053	0.081	NA	NA	0.189	NA
n-C9 (Nonane)	mg/kg	NA	NA	--	NA	NA	--	--	NA	NA	--	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	1.248	NA	NA	0.083	0.077	NA	NA	0.889	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	1.038	NA	NA	0.033	0.039	NA	NA	0.499	NA
Total Alkanes	mg/kg	NA	NA	67.3	NA	NA	16.9	14.4	NA	NA	120.9	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	1480	NA	NA	300	360	NA	NA	1983	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	461	NA	NA	166	161	NA	NA	974	NA
Unresolved Complex Mixture	mg/kg	NA	NA	1019	NA	NA	134	200	NA	NA	1008	NA
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	5 J	7 J	--	4 J	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	4 J	5 J	--	3 J	--	--	--	6 J	--
2-Butanone (MEK)	ug/kg	15 J	--	20 J	--	--	8 J	--	--	--	40 J	32 J
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	75	--	110	39 J	--	41	27 J	--	--	200 J	200
Benzene	ug/kg	1 J	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	16	--	--	--	--	--	--	6 J	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	5 J	--	16	8 J	--	5 J	--	--	--	22 J	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-051	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-053	SED-DA-053	SED-DA-053
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-2.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-051(1.0-1.5)	SED-DA-052(0.0-0.5)	SED-DA-052(0.5-1.0)	SED-DA-052(1.0-1.5)	SED-DA-052(1.5-2.0)	SED-DA-052(2.0-2.6)	SED-DA-053(0.0-0.5)	SED-DA-053(0.5-1.0)	SED-DA-053(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
Metals										
Arsenic	mg/kg	3.95	13.9	5.27	4.68	3.85	3.10	6.42	4.34 J	2.90
Barium	mg/kg	178	197	135	114	83.7	75.9	193	197	83.1
Cadmium	mg/kg	0.331 J	--	--	--	0.218 J	0.205 J	0.527 J	0.397 J	0.214 J
Chromium	mg/kg	23.9 J	27.1	17.8	14.1	14.5 J	17.5 J	26.0 J	22.4 J	12.0 J
Lead	mg/kg	23.0	38.1	17.7	14.0	13.0	11.8	36.9	26.1	11.3
Mercury	mg/kg	0.0418 J	0.0679 J	0.0401 J	0.0503 J	0.0533 J	0.0311 J	0.0709 J	0.0680 J	0.0386 J
Nickel	mg/kg	13.0	25.5	12.3	10.0	9.86	12.3	21.1	19.5	9.65
Selenium	mg/kg	1.33 J	--	--	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	49.2	42.3	29.7	25.4	25.6	28.7	41.9	38.2	20.5
Other										
Black Carbon	%	NA	0.35 J	NA	NA	NA	NA	0.23 J	NA	NA
Percent Moisture	%	33.2	65.3	27.0	25.1	23.3	26.5	58.0	55.7	22.1
Total Organic Carbon	%	NA	8.54	NA	NA	NA	NA	5.18	NA	NA
Priority PAHs										
1-Methylnaphthalene	ug/kg	0.758	65.7	3.84	2.23	NA	NA	5.41	2.78	0.692
2-Methylnaphthalene	ug/kg	1.45	90.8	7.78	4.00	NA	NA	10.4	5.49	1.45
Acenaphthene	ug/kg	0.451	7.31	1.07	0.12	NA	NA	1.48	1.01	0.275
Acenaphthylene	ug/kg	0.235	14.4	0.798	0.61	NA	NA	2.35	0.939	--
Anthracene	ug/kg	0.351	19.2	0.959	0.583	NA	NA	3.05	1.40	--
Benzo(a)Anthracene	ug/kg	0.652	19.2	1.48	0.569	NA	NA	3.44	2.49	0.136 J
Benzo(a)Pyrene	ug/kg	0.453	24.8	1.94	--	NA	NA	3.97	1.49	--
Benzo(b)Fluoranthene	ug/kg	2.52	90.3	7.65	--	NA	NA	20.0	11.3	--
Benzo(g,h,i)Perylene	ug/kg	--	81.1	5.33	--	NA	NA	13.4	2.30	--
Benzo(j)+(k)Fluoranthene	ug/kg	0.448	23.0	1.44	--	NA	NA	4.04	1.53	--
Chrysene/Triphenylene	ug/kg	2.03	61.8	3.71	1.07	NA	NA	14.3	8.94	0.119
Dibenz(a,h)Anthracene	ug/kg	--	12.5	2.33	--	NA	NA	3.32	1.46	--
Fluoranthene	ug/kg	1.99	57.8 J	6.38 J	3.32 J	NA	NA	12.3	8.46	0.787
Fluorene	ug/kg	2.72	31.6	8.93	7.41	NA	NA	8.54	8.06	3.36
Indeno[1,2,3-cd]pyrene	ug/kg	0.621	45.3	3.35	--	NA	NA	11.0	3.14	--
Naphthalene	ug/kg	2.06	20.6	7.53	4.13	NA	NA	9.76	6.41	1.79
Phenanthrene	ug/kg	5.16	79.7	18.0	14.0	NA	NA	19.2	17.4	6.56
Pyrene	ug/kg	1.52	58.2	3.75	1.41	NA	NA	9.10	4.63	--
Forensic PAHs										
Benzo(e)Pyrene	ug/kg	0.847	57.3	3.39	--	NA	NA	12.3	3.33	0.160 J
C1-Chrysenes	ug/kg	11.5	141	--	--	NA	NA	72.1	2.73	--
C1-Fluoranthenes/Pyrenes	ug/kg	2.92	113	5.79	2.67	NA	NA	17.1	5.26	--
C1-Fluorenes	ug/kg	1.22	76.2	4.89	3.43	NA	NA	7.58	4.56	--
C1-Phenanthrenes/Anthracenes	ug/kg	--	199	10.8	7.18	NA	NA	19.1	11.8	--
C2-Chrysenes	ug/kg	2.23	153	--	--	NA	NA	46.2	6.79	--
C2-Fluorenes	ug/kg	1.73	222	11.6	--	NA	NA	27.1	7.44	--
C2-Naphthalenes	ug/kg	2.49	290	15.1	11.7	NA	NA	20.5	9.66	2.97
C2-Phenanthrenes/Anthracenes	ug/kg	--	376	15.0	8.25	NA	NA	32.4	8.19	--
C3-Chrysenes	ug/kg	1.56	136	--	--	NA	NA	37.1	2.81	--
C3-Fluorenes	ug/kg	0.921	283	--	--	NA	NA	17.9	4.09	--
C3-Naphthalenes	ug/kg	6.07	398	20.5	21.1	NA	NA	24.3	12.3	8.53
C3-Phenanthrenes/Anthracenes	ug/kg	--	425	13.4	5.31	NA	NA	37.8	4.14	--
C4-Chrysenes	ug/kg	1.12	99.9	--	--	NA	NA	15.4	2.22	--
C4-Naphthalenes	ug/kg	1.03	345	25.9	54.1	NA	NA	16.6	10.3	4.29
C4-Phenanthrenes/Anthracenes	ug/kg	--	352	13.8	5.15	NA	NA	34.7	--	--
Perylene	ug/kg	348	112	157	52.8	NA	NA	378	310	15.8
Phenanthrene, 2-methyl-	ug/kg	NA	61.2 J	NA	NA	NA	NA	8.41	NA	NA
1,1-Biphenyl	ug/kg	NA	16.0	NA	NA	NA	NA	6.46	NA	NA
18a-Oleanane	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	67.1	NA	NA	NA	NA	2.92	NA	NA
1-Methylfluorene	ug/kg	NA	56.6	NA	NA	NA	NA	3.42	NA	NA
1-Methylphenanthrene	ug/kg	NA	57.0	NA	NA	NA	NA	4.03	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	49.2	NA	NA	NA	NA	2.43	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	81.5	NA	NA	NA	NA	5.70	NA	NA
2-Methylanthracene	ug/kg	NA	12.7	NA	NA	NA	NA	5.38	NA	NA
2-Methylfluoranthene	ug/kg	NA	10.6	NA	NA	NA	NA	1.92	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	26.0	NA	NA	NA	NA	2.60	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	58.5 J	NA	NA	NA	NA	5.74	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	113	NA	NA	NA	NA	5.98	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	70.4	NA	NA	NA	NA	5.80	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-051	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-053	SED-DA-053	SED-DA-053
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-2.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-051(1.0-1.5)	SED-DA-052(0.0-0.5)	SED-DA-052(0.5-1.0)	SED-DA-052(1.0-1.5)	SED-DA-052(1.5-2.0)	SED-DA-052(2.0-2.6)	SED-DA-053(0.0-0.5)	SED-DA-053(0.5-1.0)	SED-DA-053(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
Benzo(a)Fluoranthene	ug/kg	NA	15.9	NA	NA	NA	NA	--	NA	NA
Benzo(b)fluorene	ug/kg	NA	12.4	NA	NA	NA	NA	2.16	NA	NA
Benzothiophene	ug/kg	NA	2.14	NA	NA	NA	NA	1.19	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	47.6	NA	NA	NA	NA	--	NA	NA
C1-Decalins	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C1-Dibenzothiophenes	ug/kg	0.536	234	4.31	1.29	NA	NA	11.5	2.30	0.231
C1-Naphthalenes	ug/kg	1.42	99.6	7.45	3.99	NA	NA	10.7	5.33	1.38
C1-Naphthobenzothiophenes	ug/kg	NA	187	NA	NA	NA	NA	43.4	NA	NA
C20-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C21-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C29-Hopane	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	53.2	NA	NA	NA	NA	--	NA	NA
C2-Decalins	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	0.410	399	7.05	3.20	NA	NA	25.2	3.13	0.315
C2-Fluoranthenes/Pyrenes	ug/kg	1.25	210	--	--	NA	NA	30.8	4.39	--
C2-Naphthobenzothiophenes	ug/kg	NA	326	NA	NA	NA	NA	87.9	NA	NA
C30-Hopane	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	136	NA	NA	NA	NA	--	NA	NA
C3-Decalins	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	0.330	512	12.6	5.16	NA	NA	51.8	3.29	0.179 J
C3-Fluoranthenes/Pyrenes	ug/kg	1.05	161	--	--	NA	NA	28.9	2.70	--
C3-Naphthobenzothiophenes	ug/kg	NA	281	NA	NA	NA	NA	95.3	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	148	NA	NA	NA	NA	--	NA	NA
C4-Decalins	ug/kg	NA	--	NA	NA	NA	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	0.264	418	10.6	5.20	NA	NA	46.8	3.57	--
C4-Fluoranthenes/Pyrenes	ug/kg	--	224	--	--	NA	NA	42.1	1.20	--
C4-Naphthobenzothiophenes	ug/kg	NA	136	NA	NA	NA	NA	29.7	NA	NA
Carbazole	ug/kg	NA	11.7	NA	NA	NA	NA	2.82	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	15.9	NA	NA	NA	NA	5.57	NA	NA
Dibenzofuran	ug/kg	NA	16.8	NA	NA	NA	NA	6.20	NA	NA
Dibenzothiophene	ug/kg	0.627	68.8	2.46	2.14	NA	NA	5.92	1.98	0.313
Naphthalene, 2,6-dimethyl-	ug/kg	NA	120	NA	NA	NA	NA	8.75	NA	NA
Naphthobenzothiophene	ug/kg	NA	62.7	NA	NA	NA	NA	12.7	NA	NA
Retene	ug/kg	NA	28.5	NA	NA	NA	NA	1.75	NA	NA
TPH										
EOM (Extracted Organic Material)	mg/kg	NA	4661	NA	NA	NA	NA	1403	NA	NA
i-C15	mg/kg	NA	0.223	NA	NA	NA	NA	0.012 J	NA	NA
i-C16	mg/kg	NA	0.346	NA	NA	NA	NA	0.055	NA	NA
i-C18	mg/kg	NA	0.264	NA	NA	NA	NA	0.019	NA	NA
n-C10 (n-Decane)	mg/kg	NA	0.013 J	NA	NA	NA	NA	0.008 J	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	0.042	NA	NA	NA	NA	0.012 J	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	0.108	NA	NA	NA	NA	0.029	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	0.128	NA	NA	NA	NA	0.020 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	0.192	NA	NA	NA	NA	0.042	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	0.533	NA	NA	NA	NA	0.054	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	0.245	NA	NA	NA	NA	0.053	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	0.661	NA	NA	NA	NA	0.067	NA	NA
n-C18 (Octadecane)	mg/kg	NA	1.078	NA	NA	NA	NA	1.544	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	0.905	NA	NA	NA	NA	0.368	NA	NA
n-C20 (Eicosane)	mg/kg	NA	0.308	NA	NA	NA	NA	0.054	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	3.676	NA	NA	NA	NA	0.812	NA	NA
n-C22 (Docosane)	mg/kg	NA	0.496	NA	NA	NA	NA	0.128	NA	NA
n-C23 (Tricosane)	mg/kg	NA	3.413	NA	NA	NA	NA	0.805	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	0.551	NA	NA	NA	NA	0.178	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	2.847	NA	NA	NA	NA	0.792	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	0.386	NA	NA	NA	NA	0.213	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	3.715	NA	NA	NA	NA	1.303	NA	NA
n-C28 (Octacosane)	mg/kg	NA	0.893	NA	NA	NA	NA	0.446	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	6.984	NA	NA	NA	NA	4.621	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	1.124	NA	NA	NA	NA	0.448	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	10.266	NA	NA	NA	NA	6.039	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-051	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-052	SED-DA-053	SED-DA-053	SED-DA-053
	Depths (ft)	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	1.5-2 ft	2-2.6 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	8/14/2013	8/10/2013	8/10/2013	8/10/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013	8/14/2013
	Sample ID	SED-DA-051(1.0-1.5)	SED-DA-052(0.0-0.5)	SED-DA-052(0.5-1.0)	SED-DA-052(1.0-1.5)	SED-DA-052(1.5-2.0)	SED-DA-052(2.0-2.6)	SED-DA-053(0.0-0.5)	SED-DA-053(0.5-1.0)	SED-DA-053(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**									
n-C32 (Dotriacontane)	mg/kg	NA	2.354	NA	NA	NA	NA	0.295	NA	NA
n-C33	mg/kg	NA	23.020	NA	NA	NA	NA	2.348	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	0.695	NA	NA	NA	NA	0.417	NA	NA
n-C35	mg/kg	NA	11.573	NA	NA	NA	NA	2.038	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	0.425	NA	NA	NA	NA	0.260	NA	NA
n-C37	mg/kg	NA	0.972	NA	NA	NA	NA	0.255	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	0.314	NA	NA	NA	NA	0.085	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	0.633	NA	NA	NA	NA	0.232	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	0.034	NA	NA	NA	NA	0.026	NA	NA
n-C9 (Nonane)	mg/kg	NA	--	NA	NA	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	0.992	NA	NA	NA	NA	0.086	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	0.573	NA	NA	NA	NA	0.040	NA	NA
Total Alkanes	mg/kg	NA	81.0	NA	NA	NA	NA	24.2	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	1612	NA	NA	NA	NA	479	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	576	NA	NA	NA	NA	197	NA	NA
Unresolved Complex Mixture	mg/kg	NA	1037	NA	NA	NA	NA	282	NA	NA
VOCs										
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	13 J	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	33	--	--	--	--	12 J	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	12 J	200	13 J	11 J	--	--	67	18 J	--
Benzene	ug/kg	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	6 J	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	3 J	4 J	2 J
Xylene (Total)	ug/kg	--	20	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Dawson Cove Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:

% = percent

-- = Compound was not detected

B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)

E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)

ft = feet

J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.

mg/kg = milligrams per kilogram

NA = not analyzed

PAH = polycyclic aromatic hydrocarbons

R = The sample results are rejected

TPH = total petroleum hydrocarbon

ug/kg = micrograms per kilogram

VOCs = volatile organic compounds

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-033	SED-DA-033	SED-DA-033	SED-DA-034	SED-DA-034	SED-DA-034	SED-DA-035	SED-DA-035	SED-DA-035	SED-DA-036	SED-DA-036
	Depths (ft)	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
	Sample Date	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-033(0.0-0.5)	SED-DA-033(0.5-1.0)	SED-DA-033(1.0-1.5)	SED-DA-034(0.0-0.5)	SED-DA-034(0.5-1.0)	SED-DA-034(1.0-1.5)	SED-DA-035(0.0-0.5)	SED-DA-035(0.5-1.0)	SED-DA-035(1.0-1.5)	SED-DA-036(0.0-0.5)	SED-DA-DUP-01-072813FD
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Metals												
Arsenic	mg/kg	2.73 J	2.07 J	1.59 J	5.78	2.43 J	1.65 J	7.62	2.37 J	1.81 J	7.42	3.66
Barium	mg/kg	158	105	75.5	187	122	86.9	259	140	96.2	142 J	83.6 J
Cadmium	mg/kg	--	--	--	0.245 J	--	--	--	--	--	0.404 J	--
Chromium	mg/kg	21.4 J	18.5 J	14.1 J	28.4 J	20.0 J	12.6 J	41.4 J	21.9 J	16.6 J	21.1 J	12.3 J
Lead	mg/kg	24.5	12.9	11.2	40.8	17.3	9.94	46.7	18.8	12.7	27.8 J	14.8 J
Mercury	mg/kg	0.0598 J	0.0133 J	0.0461 J	0.0759 J	0.0799 J	0.0215 J	0.0903 J	0.0451 J	0.0353 J	0.0593 J	0.0265 J
Nickel	mg/kg	17.3	9.69	7.41	24.0	11.6	6.74	31.0	14.1	8.83	19.4 J	9.76 J
Selenium	mg/kg	--	--	--	--	--	--	2.89 J	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	36.4	31.3	25.1	46.7	33.5	23.8	67.2	35.3	27.6	34.7 J	20.1 J
Other												
Black Carbon	%	--	NA	NA	0.230 J	NA	NA	0.220 J	NA	NA	0.270 J	0.240 J
Percent Moisture	%	37.1	21.9	20.7	58.7	26.4	19.5	70.4	29.4	22.6	64.4	37.1
Total Organic Carbon	%	2.20	NA	NA	5.91	NA	NA	3.03	NA	NA	5.48	4.58
Priority PAHs												
1-Methylnaphthalene	ug/kg	6.02	0.262 J	--	3.05	0.905	--	3.21	1.59	0.333 J	3.30	2.52
2-Methylnaphthalene	ug/kg	9.90	0.649 J	--	6.81	2.03	0.475 J	7.55	3.59	0.713 J	7.53	5.88
Acenaphthene	ug/kg	1.71	0.127	--	1.57	0.291	0.082 J	1.59	0.929	0.190	2.63	1.85
Acenaphthylene	ug/kg	3.36	0.085	--	6.47	0.212	0.059	4.29	0.798	0.110	8.28	5.59
Anthracene	ug/kg	5.24	0.111 J	--	9.73	0.366	--	7.77	1.69	0.214	15.3	9.94
Benzo(a)Anthracene	ug/kg	9.56	0.182 J	--	17.0	0.522	--	13.3	1.85	0.226	18.7	13.8
Benzo(a)Pyrene	ug/kg	7.39	--	--	14.4	--	--	11.7	1.92	--	16.3	13.2
Benzo(b)Fluoranthene	ug/kg	22.6	0.391	--	43.9	1.55	--	31.3	7.60	0.463	60.7	43.7
Benzo(g,h,i)Perylene	ug/kg	9.21	0.215	--	20.4	0.758	0.099	13.2	2.89	0.26	24.0	18.7
Benzo(j)+(k)Fluoranthene	ug/kg	5.44	0.075 J	--	14.2	0.258	--	8.18	1.76	0.088 J	20.4	15.2
Chrysene/Triphenylene	ug/kg	16.4	0.308	--	28.3	1.37	--	25.2	4.94	0.289	31.8	23.2
Dibenz(a,h)Anthracene	ug/kg	--	--	--	9.14	0.378	--	5.39	10.1	--	10.1 J	--
Fluoranthene	ug/kg	21.5	1.56	1.15	39.6	2.77	1.09	25.1	6.11	1.41	44.1	30.3
Fluorene	ug/kg	12.5	2.12	1.12	10.4	3.87	1.78	13.7	7.67	--	12.5	9.29
Indeno[1,2,3-cd]pyrene	ug/kg	7.41	--	--	16.5	0.621	--	10.8	2.48	--	21.9	15.2
Naphthalene	ug/kg	8.98	--	--	7.38	2.87	--	7.49	4.04	--	8.65	5.87
Phenanthrene	ug/kg	28.6	6.54	3.53	21.8	11.1	5.20	38.6	20.5	6.79	23.1	19.2
Pyrene	ug/kg	18.0	0.914	0.465	33.6	1.78	0.496	25.3	5.52	1.04	43.0	29.5
Forensic PAHs												
Benzo(e)Pyrene	ug/kg	11.2	--	--	24.3	--	--	27.3	3.48	--	30.8	21.4
C1-Chrysenes	ug/kg	3.92	--	--	24.7	--	--	73.5	--	--	6.56	5.58
C1-Fluoranthenes/Pyrenes	ug/kg	17.5	0.538	0.258 J	27.7	1.96	--	29.5	4.98	0.475	37.9	28.7
C1-Fluorenes	ug/kg	6.97	0.903	0.565	6.05	1.62	--	6.64	3.03	0.831	7.19	5.66
C1-Phenanthrenes/Anthracenes	ug/kg	15.8	3.14	--	15.2	4.46	--	16.6	7.16	3.17	17.8	14.6
C2-Chrysenes	ug/kg	7.33	--	--	9.36	--	--	110	--	--	10.2	11.2
C2-Fluorenes	ug/kg	20.1	1.19	--	23.8	--	--	22.6	6.98	--	17.4	12.9
C2-Naphthalenes	ug/kg	22.4	1.19	--	11.8	3.14	1.01	13.4	6.08	1.10	14.9	11.7
C2-Phenanthrenes/Anthracenes	ug/kg	21.2	--	--	23.4	--	--	40.8	8.38	--	25.8	19.0
C3-Chrysenes	ug/kg	9.14	--	--	14.5	--	--	86.6	--	--	19.4	16.6
C3-Fluorenes	ug/kg	16.3	--	--	20.7	--	--	25.4	7.09	--	18.5	20.3
C3-Naphthalenes	ug/kg	32.0	1.32	--	17.1	3.17	--	29.8	19.7	2.78	14.7	11.4
C3-Phenanthrenes/Anthracenes	ug/kg	16.2	--	--	19.4	--	--	63.9	5.07	--	30.2	20.4
C4-Chrysenes	ug/kg	6.69	--	--	9.04	--	--	49.2	--	--	10.3	12.2
C4-Naphthalenes	ug/kg	18.1	2.41	--	21.0	2.77	--	11.8	5.61	2.10	18.1	12.2
C4-Phenanthrenes/Anthracenes	ug/kg	20.1	--	--	17.6	--	--	52.8	4.50	--	22.5	17.9
Perylene	ug/kg	655 EJ	148	75.7	917 EJ	746 EJ	126	935 EJ	968 EJ	461 EJ	1018 EJ	736 EJ
Phenanthrene, 2-methyl-	ug/kg	6.15	NA	NA	4.82	NA	NA	5.63	NA	NA	5.90	5.11
1,1-Biphenyl	ug/kg	4.94	NA	NA	3.66	NA	NA	3.84	NA	NA	4.06	3.77
18a-Oleanane	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
1-Methyldibenzothiophene(1MDT)	ug/kg	0.80	NA	NA	1.21	NA	NA	0.97	NA	NA	1.14	0.74
1-Methylfluorene	ug/kg	3.52	NA	NA	3.10	NA	NA	3.39	NA	NA	3.63	2.93
1-Methylphenanthrene	ug/kg	4.03	NA	NA	2.99	NA	NA	3.42	NA	NA	3.20	2.84
2,3,5-Trimethylnaphthalene	ug/kg	3.83	NA	NA	2.16	NA	NA	1.63	NA	NA	2.39	1.60
2/3-Methyldibenzothiophene(2MDT)	ug/kg	2.55	NA	NA	2.83	NA	NA	2.25	NA	NA	3.14	2.45
2-Methylanthracene	ug/kg	4.69	NA	NA	5.55	NA	NA	5.33	NA	NA	6.30	5.31
2-Methylfluoranthene	ug/kg	2.54	NA	NA	4.37	NA	NA	3.66	NA	NA	6.01	4.12
3,6-Dimethylphenanthrene	ug/kg	1.41	NA	NA	1.71	NA	NA	2.55	NA	NA	2.82	2.01
3-Methylphenanthrene (3MP)	ug/kg	5.86	NA	NA	5.92	NA	NA	6.31	NA	NA	6.84	5.41
4-Methyldibenzothiophene(4MDT)	ug/kg	2.77	NA	NA	3.45	NA	NA	2.92	NA	NA	3.86	3.06
9/4-Methylphenanthrene (9MP)	ug/kg	3.59	NA	NA	4.14	NA	NA	4.93	NA	NA	5.17	3.92

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-033	SED-DA-033	SED-DA-033	SED-DA-034	SED-DA-034	SED-DA-034	SED-DA-035	SED-DA-035	SED-DA-035	SED-DA-036	SED-DA-036
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
Sample Date		7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013
Sample ID		SED-DA-033(0.0-0.5)	SED-DA-033(0.5-1.0)	SED-DA-033(1.0-1.5)	SED-DA-034(0.0-0.5)	SED-DA-034(0.5-1.0)	SED-DA-034(1.0-1.5)	SED-DA-035(0.0-0.5)	SED-DA-035(0.5-1.0)	SED-DA-035(1.0-1.5)	SED-DA-036(0.0-0.5)	SED-DA-DUP-01-072813FD
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
Benzo(a)Fluoranthene	ug/kg	3.63	NA	NA	12.9	NA	NA	5.02	NA	NA	--	10.0 J
Benzo(b)fluorene	ug/kg	4.57	NA	NA	8.30	NA	NA	6.76	NA	NA	11.5	8.24
Benzothiophene	ug/kg	1.19	NA	NA	0.76	NA	NA	0.493	NA	NA	0.817 J	0.495 J
C1-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C1-Decalins	ug/kg	2.29	NA	NA	1.01	NA	NA	1.33	NA	NA	--	--
C1-Dibenzothiophenes	ug/kg	5.11	0.147	--	6.25	0.443	--	5.13	1.43	--	6.80	5.22
C1-Naphthalenes	ug/kg	9.73	0.561 J	--	6.06	1.80	0.421 J	6.62	3.18	0.642 J	6.66	5.16
C1-Naphthobenzothiophenes	ug/kg	14.0	NA	NA	22.5	NA	NA	63.4	NA	NA	27.1	20.2
C20-TAS	ug/kg	--	NA	NA	--	NA	NA	4.38	NA	NA	--	--
C21-TAS	ug/kg	--	NA	NA	--	NA	NA	5.73	NA	NA	--	--
C26(20R)/C27(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	15.1	NA	NA	--	--
C26(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	10.5	NA	NA	--	--
C27(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	25.6	NA	NA	--	--
C28(20R)-TAS	ug/kg	--	NA	NA	--	NA	NA	44.8	NA	NA	--	--
C28(20S)-TAS	ug/kg	--	NA	NA	--	NA	NA	45.5	NA	NA	--	--
C29-Hopane	ug/kg	28.4	NA	NA	78.8	NA	NA	185	NA	NA	56.8	73.0
C2-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C2-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C2-Dibenzothiophenes	ug/kg	--	--	--	12.5	--	--	17.5	2.20	--	16.1	10.6
C2-Fluoranthenes/Pyrenes	ug/kg	--	--	--	37.5	--	--	48.6	7.92	--	44.1	35.2
C2-Naphthobenzothiophenes	ug/kg	27.4	NA	NA	36.7	NA	NA	120	NA	NA	47.4	39.3
C30-Hopane	ug/kg	44.9	NA	NA	98.2	NA	NA	295	NA	NA	131	101
C3-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C3-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C3-Dibenzothiophenes	ug/kg	--	--	--	15.3	--	--	37.0	3.67	--	18.1	13.9
C3-Fluoranthenes/Pyrenes	ug/kg	--	--	--	20.2	--	--	48.2	5.71	--	24.6	15.5
C3-Naphthobenzothiophenes	ug/kg	27.2	NA	NA	31.6	NA	NA	129	NA	NA	44.1	35.9
C4-Benzo(b)thiophenes	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C4-Decalins	ug/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
C4-Dibenzothiophenes	ug/kg	--	--	--	14.3	--	--	40.6	1.73	--	22.0	14.6
C4-Fluoranthenes/Pyrenes	ug/kg	--	--	--	32.7	--	--	74.5	10.2	--	49.2	36.0
C4-Naphthobenzothiophenes	ug/kg	10.8	NA	NA	12.9	NA	NA	67.8	NA	NA	14.9	13.4
Carbazole	ug/kg	2.69	NA	NA	3.79	NA	NA	2.83	NA	NA	5.60	4.18
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	4.63	NA	NA	5.09	NA	NA	4.96	NA	NA	--	--
Dibenzofuran	ug/kg	6.97	NA	NA	5.20	NA	NA	7.72	NA	NA	6.17	4.68
Dibenzothiophene	ug/kg	4.23	0.188	0.087 J	4.83	0.732	--	4.19	1.76	0.287	5.94	4.73
Naphthalene, 2,6-dimethyl-	ug/kg	9.56	NA	NA	6.09	NA	NA	7.09	NA	NA	6.79	4.90
Naphthobenzothiophene	ug/kg	11.0	NA	NA	14.9	NA	NA	22.2	NA	NA	15.2	11.3
Retene	ug/kg	26.9	NA	NA	8.20	NA	NA	4.32	NA	NA	12.7	7.68
TPH												
EOM (Extracted Organic Material)	mg/kg	991	NA	NA	2033	NA	NA	2543	NA	NA	2544	1555
i-C15	mg/kg	0.014 J	NA	NA	0.020	NA	NA	0.016 J	NA	NA	0.031	0.028
i-C16	mg/kg	0.015	NA	NA	0.044	NA	NA	0.063	NA	NA	0.070	0.094
i-C18	mg/kg	0.026	NA	NA	0.024	NA	NA	0.031	NA	NA	0.052	0.043
n-C10 (n-Decane)	mg/kg	0.010 J	NA	NA	0.009 J	NA	NA	0.013 J	NA	NA	0.013 J	0.011 J
n-C11 (n-Undecane)	mg/kg	0.015 J	NA	NA	0.016 J	NA	NA	0.023	NA	NA	0.019	0.020
n-C12 (n-Dodecane)	mg/kg	0.048	NA	NA	0.027	NA	NA	0.072	NA	NA	0.034	0.035
n-C13 (n-Tridecane)	mg/kg	0.023 J	NA	NA	0.021 J	NA	NA	0.045 J	NA	NA	0.025 J	0.024 J
n-C14 (n-Tetradecane)	mg/kg	0.045	NA	NA	0.029	NA	NA	0.079	NA	NA	0.046	0.046
n-C15 (Pentadecane)	mg/kg	0.204	NA	NA	0.664	NA	NA	0.048	NA	NA	0.543	0.536
n-C16 (n-Hexadecane)	mg/kg	0.089	NA	NA	0.127	NA	NA	0.137	NA	NA	0.084	0.089
n-C17 (Heptadecane)	mg/kg	0.138	NA	NA	0.237	NA	NA	0.253	NA	NA	0.959	0.647
n-C18 (Octadecane)	mg/kg	0.244	NA	NA	0.469	NA	NA	0.485	NA	NA	0.621	0.560
n-C19 (Nonadecane)	mg/kg	0.351	NA	NA	0.643	NA	NA	0.696	NA	NA	1.12	0.905
n-C20 (Eicosane)	mg/kg	0.125	NA	NA	0.262	NA	NA	0.160	NA	NA	0.403	0.353
n-C21 (Heneicosane)	mg/kg	0.505	NA	NA	1.69	NA	NA	1.23	NA	NA	2.18	1.95
n-C22 (Docosane)	mg/kg	0.172	NA	NA	0.277	NA	NA	0.176	NA	NA	0.203	0.323
n-C23 (Tricosane)	mg/kg	0.467	NA	NA	1.17	NA	NA	0.840	NA	NA	1.70	1.45
n-C24 (Tetracosane)	mg/kg	0.204	NA	NA	0.353	NA	NA	0.269	NA	NA	0.474	0.407
n-C25 (Pentacosane)	mg/kg	0.456	NA	NA	0.954	NA	NA	0.790	NA	NA	1.56	1.26
n-C26 (Hexacosane)	mg/kg	0.157	NA	NA	0.262	NA	NA	0.173	NA	NA	0.481	0.310
n-C27 (Heptacosane)	mg/kg	1.16	NA	NA	1.88	NA	NA	1.35	NA	NA	3.05	2.51
n-C28 (Octacosane)	mg/kg	0.442	NA	NA	0.861	NA	NA	0.456	NA	NA	1.11	0.965
n-C29 (Nonacosane)	mg/kg	3.49	NA	NA	7.70	NA	NA	2.70	NA	NA	2.56 J	7.18 J
n-C30 (n-Triacontane)	mg/kg	0.321	NA	NA	0.751	NA	NA	0.234	NA	NA	1.00	0.962
n-C31 (Hentriacontane)	mg/kg	3.54	NA	NA	9.18	NA	NA	2.75	NA	NA	10.7	9.99

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-033	SED-DA-033	SED-DA-033	SED-DA-034	SED-DA-034	SED-DA-034	SED-DA-035	SED-DA-035	SED-DA-035	SED-DA-036	SED-DA-036
Depths (ft)		0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0-0.5 ft
Sample Date		7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/27/2013	7/28/2013	7/28/2013
Sample ID		SED-DA-033(0.0-0.5)	SED-DA-033(0.5-1.0)	SED-DA-033(1.0-1.5)	SED-DA-034(0.0-0.5)	SED-DA-034(0.5-1.0)	SED-DA-034(1.0-1.5)	SED-DA-035(0.0-0.5)	SED-DA-035(0.5-1.0)	SED-DA-035(1.0-1.5)	SED-DA-036(0.0-0.5)	SED-DA-DUP-01-072813FD
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**											
n-C32 (Dotriacontane)	mg/kg	0.626	NA	NA	0.837	NA	NA	0.154	NA	NA	0.761	0.983
n-C33	mg/kg	5.05	NA	NA	13.8	NA	NA	4.70	NA	NA	15.8	11.4
n-C34 (Tetratriacontane)	mg/kg	0.448	NA	NA	1.21	NA	NA	0.447	NA	NA	0.558 J	1.33 J
n-C35	mg/kg	3.41	NA	NA	10.5	NA	NA	3.86	NA	NA	8.67	7.25
n-C36 (Hexatriacontane)	mg/kg	0.187	NA	NA	0.511	NA	NA	0.291	NA	NA	0.605	0.964
n-C37	mg/kg	0.972	NA	NA	1.94	NA	NA	0.746	NA	NA	2.05	1.95
n-C38 (Octatriacontane)	mg/kg	0.083	NA	NA	0.162	NA	NA	0.151	NA	NA	0.236	0.206
n-C39 (Nonatriacontane)	mg/kg	0.085	NA	NA	0.160	NA	NA	0.151	NA	NA	0.238	0.215
n-C40 (Tetracontane)	mg/kg	0.092	NA	NA	0.087	NA	NA	--	NA	NA	--	--
n-C9 (Nonane)	mg/kg	--	NA	NA	--	NA	NA	--	NA	NA	--	--
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	0.076	NA	NA	0.129	NA	NA	0.079	NA	NA	0.230	0.169
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	0.055	NA	NA	0.055	NA	NA	0.062	NA	NA	0.071	0.052
Total Alkanes	mg/kg	23.3	NA	NA	57.1	NA	NA	23.7	NA	NA	58.3	55.2
Total Petroleum Hydrocarbons	mg/kg	303	NA	NA	558	NA	NA	738	NA	NA	798	503
Total Resolveable Hydrocarbons	mg/kg	161	NA	NA	319	NA	NA	147	NA	NA	354 J	291 J
Unresolved Complex Mixture	mg/kg	142	NA	NA	239	NA	NA	591	NA	NA	444	213
VOCs												
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	6 J	--	--	14 J	--	--	--	--	--	--	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Acetone	ug/kg	34	21 J	--	78	19 J	9 J	100	14 J	10 J	69	40 J
Benzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--	--	--	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-036	SED-DA-036	SED-DA-037	SED-DA-037	SED-DA-037	SED-DA-038	SED-DA-038	SED-DA-038
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-036(0.5-1.0)	SED-DA-036(1.0-1.5)	SED-DA-037(0.0-0.5)	SED-DA-037(0.5-1.0)	SED-DA-037(1.0-1.5)	SED-DA-038(0.0-0.5)	SED-DA-038(0.5-1.0)	SED-DA-038(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
Metals									
Arsenic	mg/kg	3.09	2.45 J	8.37	6.51	2.70 J	9.13	7.33	2.51 J
Barium	mg/kg	144 J	126 J	154 J	203 J	159 J	223 J	142 J	163 J
Cadmium	mg/kg	--	--	0.273 J	--	--	0.514 J	0.196 J	--
Chromium	mg/kg	23.6 J	24.4 J	24.0 J	29.8 J	30.2 J	36.9 J	20.4 J	26.7 J
Lead	mg/kg	17.8 J	15.6 J	30.4 J	34.4 J	17.3 J	47.2 J	22.3 J	19.3 J
Mercury	mg/kg	0.0436 J	0.0367 J	0.0621 J	0.0772 J	0.0381 J	0.0868 J	0.0540 J	0.0407 J
Nickel	mg/kg	14.8 J	12.8 J	19.9 J	22.5 J	14.8 J	30.8 J	18.5 J	16.6 J
Selenium	mg/kg	--	--	--	--	--	3.24 J	1.22 J	--
Silver	mg/kg	--	--	--	--	--	--	--	--
Vanadium	mg/kg	36.8 J	38.6 J	38.3 J	52.9 J	48.2 J	59.3 J	37.7 J	44.1 J
Other									
Black Carbon	%	NA	NA	0.240 J	NA	NA	0.310 J	NA	NA
Percent Moisture	%	33.3	23.1	68.8	52.8	28.9	73.2	35.3	28.0
Total Organic Carbon	%	NA	NA	4.70	NA	NA	5.67	NA	NA
Priority PAHs									
1-Methylnaphthalene	ug/kg	--	0.817	3.98	4.60	--	4.18	2.99	1.26
2-Methylnaphthalene	ug/kg	3.21	1.56	9.53	10.6	3.02	9.55	6.44	2.73
Acenaphthene	ug/kg	0.600	0.446	2.62	3.63	0.462	2.03	1.17	0.310
Acenaphthylene	ug/kg	0.313	0.284	16.0	6.15	0.302	14.3	1.59	0.270
Anthracene	ug/kg	0.953	0.881	26.8	11.4	0.626	24.7	3.06	0.648
Benzo(a)Anthracene	ug/kg	0.832	2.01	38.0	14.7	0.469	30.6	5.01	1.61
Benzo(a)Pyrene	ug/kg	--	1.17	30.6	14.3	--	31.1	3.33	0.734
Benzo(b)Fluoranthene	ug/kg	3.41	1.97	103	51.8	3.26	104	17.5	3.49
Benzo(g,h,i)Perylene	ug/kg	--	0.942	37.2	20.6	2.60	33.4	4.70	0.895
Benzo(j)+(k)Fluoranthene	ug/kg	0.752	0.920	36.2	15.4	0.774	36.8	3.12	0.857
Chrysene/Triphenylene	ug/kg	3.55	2.44	49.4	30.2	2.96	45.3	12.6	3.43
Dibenz(a,h)Anthracene	ug/kg	--	0.347	13.0	7.90	0.875	12.2	--	0.957
Fluoranthene	ug/kg	4.80	6.37	74.9	33.3	3.45	66.2	13.7	4.89
Fluorene	ug/kg	7.91	5.47	13.8	16.2	6.04	16.2	9.53	4.22
Indeno[1,2,3-cd]pyrene	ug/kg	--	0.853	39.4	16.6	--	35.7	5.26	0.827
Naphthalene	ug/kg	3.57	2.07	10.2	10.5	3.84	9.30	8.94	3.71
Phenanthrene	ug/kg	26.4	18.8	30.4	34.8	17.3	42.0	24.6	13.5
Pyrene	ug/kg	2.81	4.59	70.0	37.7	2.01	67.0	10.7	3.13
Forensic PAHs									
Benzo(e)Pyrene	ug/kg	--	1.24	50.3	28.3	--	55.6	6.64	1.14
C1-Chrysenes	ug/kg	--	--	20.8	26.5	--	41.7	17.3	--
C1-Fluoranthenes/Pyrenes	ug/kg	2.38	3.13	49.9	37.7	2.47	48.7	12.4	2.83
C1-Fluorenes	ug/kg	3.25	--	8.13	8.15	2.31	8.54	4.86	1.91
C1-Phenanthrenes/Anthracenes	ug/kg	7.88	6.70	22.1	22.6	5.79	25.8	10.7	6.09
C2-Chrysenes	ug/kg	--	--	17.1	31.9	--	20.7	4.43	--
C2-Fluorenes	ug/kg	4.76	--	28.4	23.2	--	31.8	9.67	2.58
C2-Naphthalenes	ug/kg	7.72	--	15.5	17.8	4.96	16.2	9.59	3.90
C2-Phenanthrenes/Anthracenes	ug/kg	5.82	7.51	29.7	31.0	--	35.3	12.6	7.96
C3-Chrysenes	ug/kg	--	--	17.2	31.5	--	25.5	8.29	--
C3-Fluorenes	ug/kg	5.64	--	21.7	29.3	--	31.2	9.63	6.29
C3-Naphthalenes	ug/kg	29.5	--	15.1	16.3	3.74	16.1	7.95	2.79
C3-Phenanthrenes/Anthracenes	ug/kg	1.61	4.38	29.6	39.3	--	31.9	7.01	2.78
C4-Chrysenes	ug/kg	--	--	--	--	--	15.0	4.25	--
C4-Naphthalenes	ug/kg	17.1	--	11.8	13.1	6.33	13.1	5.21	2.61
C4-Phenanthrenes/Anthracenes	ug/kg	1.53	3.94	20.2	33.7	--	32.8	8.89	3.69
Perylene	ug/kg	826 EJ	190	755 EJ	907 EJ	787 EJ	835 EJ	539	230
Phenanthrene, 2-methyl-	ug/kg	NA	NA	6.99	NA	NA	9.22	NA	NA
1,1-Biphenyl	ug/kg	NA	NA	4.00	NA	NA	3.73	NA	NA
18a-Oleanane	ug/kg	NA	NA	--	NA	NA	--	NA	NA
1-Methyldibenzothiophene(1MDT)	ug/kg	NA	NA	1.37	NA	NA	1.16	NA	NA
1-Methylfluorene	ug/kg	NA	NA	3.62	NA	NA	4.54	NA	NA
1-Methylphenanthrene	ug/kg	NA	NA	4.01	NA	NA	4.52	NA	NA
2,3,5-Trimethylnaphthalene	ug/kg	NA	NA	2.90	NA	NA	2.93	NA	NA
2/3-Methyldibenzothiophene(2MDT)	ug/kg	NA	NA	3.20	NA	NA	3.40	NA	NA
2-Methylanthracene	ug/kg	NA	NA	8.84	NA	NA	7.67	NA	NA
2-Methylfluoranthene	ug/kg	NA	NA	9.34	NA	NA	9.09	NA	NA
3,6-Dimethylphenanthrene	ug/kg	NA	NA	2.70	NA	NA	3.22	NA	NA
3-Methylphenanthrene (3MP)	ug/kg	NA	NA	8.25	NA	NA	9.98	NA	NA
4-Methyldibenzothiophene(4MDT)	ug/kg	NA	NA	3.84	NA	NA	3.98	NA	NA
9/4-Methylphenanthrene (9MP)	ug/kg	NA	NA	6.07	NA	NA	8.50	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Location		SED-DA-036	SED-DA-036	SED-DA-037	SED-DA-037	SED-DA-037	SED-DA-038	SED-DA-038	SED-DA-038
Depths (ft)		0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
Sample Date		7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013
Sample ID		SED-DA-036(0.5-1.0)	SED-DA-036(1.0-1.5)	SED-DA-037(0.0-0.5)	SED-DA-037(0.5-1.0)	SED-DA-037(1.0-1.5)	SED-DA-038(0.0-0.5)	SED-DA-038(0.5-1.0)	SED-DA-038(1.0-1.5)
Validation Level		Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
Benzo(a)Fluoranthene	ug/kg	NA	NA	--	NA	NA	10.7	NA	NA
Benzo(b)fluorene	ug/kg	NA	NA	11.8	NA	NA	13.9	NA	NA
Benzothiophene	ug/kg	NA	NA	0.652	NA	NA	0.55	NA	NA
C1-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C1-Decalins	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C1-Dibenzothiophenes	ug/kg	1.46	--	7.03	8.54	0.609	7.13	2.78	0.923
C1-Naphthalenes	ug/kg	2.02	1.45	8.31	9.35	1.90	8.44	5.79	2.45
C1-Naphthobenzothiophenes	ug/kg	NA	NA	24.1	NA	NA	28.3	NA	NA
C20-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C21-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C26(20R)/C27(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C26(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C27(20R)-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C28(20R)-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C28(20S)-TAS	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C29-Hopane	ug/kg	NA	NA	154	NA	NA	164	NA	NA
C2-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C2-Decalins	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C2-Dibenzothiophenes	ug/kg	0.935	1.31	14.8	--	0.665	15.1	4.21	1.10
C2-Fluoranthenes/Pyrenes	ug/kg	--	4.01	46.0	56.4	--	55.1	14.9	3.18
C2-Naphthobenzothiophenes	ug/kg	NA	NA	37.6	NA	NA	48.5	NA	NA
C30-Hopane	ug/kg	NA	NA	158	NA	NA	197	NA	NA
C3-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C3-Decalins	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C3-Dibenzothiophenes	ug/kg	0.497	1.54	15.1	--	0.407	16.2	5.77	1.13
C3-Fluoranthenes/Pyrenes	ug/kg	--	2.02	21.8	34.0	--	23.5	14.1	1.76
C3-Naphthobenzothiophenes	ug/kg	NA	NA	38.7	NA	NA	48.3	NA	NA
C4-Benzo(b)thiophenes	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C4-Decalins	ug/kg	NA	NA	--	NA	NA	--	NA	NA
C4-Dibenzothiophenes	ug/kg	0.690	0.936	17.9	--	0.453	19.5	4.97	0.620
C4-Fluoranthenes/Pyrenes	ug/kg	--	3.83	23.5	--	--	29.0	12.2	4.03
C4-Naphthobenzothiophenes	ug/kg	NA	NA	15.7	NA	NA	19.9	NA	NA
Carbazole	ug/kg	NA	NA	8.66	NA	NA	7.99	NA	NA
cis/trans-Decalin (Decahydronaphthalene)	ug/kg	NA	NA	--	NA	NA	--	NA	NA
Dibenzofuran	ug/kg	NA	NA	7.38	NA	NA	8.19	NA	NA
Dibenzothiophene	ug/kg	2.16	--	5.47	6.58	1.10	6.48	3.43	1.42
Naphthalene, 2,6-dimethyl-	ug/kg	NA	NA	8.52	NA	NA	8.79	NA	NA
Naphthobenzothiophene	ug/kg	NA	NA	17.2	NA	NA	16.6	NA	NA
Retene	ug/kg	NA	NA	7.92	NA	NA	8.81	NA	NA
TPH									
EOM (Extracted Organic Material)	mg/kg	NA	NA	2387	NA	NA	2238	NA	NA
i-C15	mg/kg	NA	NA	0.026	NA	NA	0.029	NA	NA
i-C16	mg/kg	NA	NA	0.109	NA	NA	0.102	NA	NA
i-C18	mg/kg	NA	NA	0.031	NA	NA	0.041	NA	NA
n-C10 (n-Decane)	mg/kg	NA	NA	0.020 J	NA	NA	0.020 J	NA	NA
n-C11 (n-Undecane)	mg/kg	NA	NA	0.034	NA	NA	0.026	NA	NA
n-C12 (n-Dodecane)	mg/kg	NA	NA	0.055	NA	NA	0.053	NA	NA
n-C13 (n-Tridecane)	mg/kg	NA	NA	0.049	NA	NA	0.040 J	NA	NA
n-C14 (n-Tetradecane)	mg/kg	NA	NA	0.069	NA	NA	0.097	NA	NA
n-C15 (Pentadecane)	mg/kg	NA	NA	0.369	NA	NA	0.403	NA	NA
n-C16 (n-Hexadecane)	mg/kg	NA	NA	0.133	NA	NA	0.141	NA	NA
n-C17 (Heptadecane)	mg/kg	NA	NA	2.74	NA	NA	1.13	NA	NA
n-C18 (Octadecane)	mg/kg	NA	NA	1.01	NA	NA	1.01	NA	NA
n-C19 (Nonadecane)	mg/kg	NA	NA	1.42	NA	NA	1.88	NA	NA
n-C20 (Eicosane)	mg/kg	NA	NA	0.602	NA	NA	0.755	NA	NA
n-C21 (Heneicosane)	mg/kg	NA	NA	3.32	NA	NA	2.63	NA	NA
n-C22 (Docosane)	mg/kg	NA	NA	0.475	NA	NA	0.494	NA	NA
n-C23 (Tricosane)	mg/kg	NA	NA	3.20	NA	NA	3.13	NA	NA
n-C24 (Tetracosane)	mg/kg	NA	NA	0.723	NA	NA	0.749	NA	NA
n-C25 (Pentacosane)	mg/kg	NA	NA	3.29	NA	NA	3.01	NA	NA
n-C26 (Hexacosane)	mg/kg	NA	NA	0.867	NA	NA	0.854	NA	NA
n-C27 (Heptacosane)	mg/kg	NA	NA	5.89	NA	NA	5.12	NA	NA
n-C28 (Octacosane)	mg/kg	NA	NA	0.610	NA	NA	1.42	NA	NA
n-C29 (Nonacosane)	mg/kg	NA	NA	6.57	NA	NA	6.75	NA	NA
n-C30 (n-Triacontane)	mg/kg	NA	NA	0.687	NA	NA	0.878	NA	NA
n-C31 (Hentriacontane)	mg/kg	NA	NA	7.45	NA	NA	7.25	NA	NA

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

	Location	SED-DA-036	SED-DA-036	SED-DA-037	SED-DA-037	SED-DA-037	SED-DA-038	SED-DA-038	SED-DA-038
	Depths (ft)	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft	0-0.5 ft	0.5-1 ft	1-1.5 ft
	Sample Date	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013	7/28/2013
	Sample ID	SED-DA-036(0.5-1.0)	SED-DA-036(1.0-1.5)	SED-DA-037(0.0-0.5)	SED-DA-037(0.5-1.0)	SED-DA-037(1.0-1.5)	SED-DA-038(0.0-0.5)	SED-DA-038(0.5-1.0)	SED-DA-038(1.0-1.5)
	Validation Level	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II	Tier II
Chemical	**Units**								
n-C32 (Dotriacontane)	mg/kg	NA	NA	1.38	NA	NA	1.46	NA	NA
n-C33	mg/kg	NA	NA	10.4	NA	NA	10.1	NA	NA
n-C34 (Tetratriacontane)	mg/kg	NA	NA	1.36	NA	NA	1.83	NA	NA
n-C35	mg/kg	NA	NA	9.55	NA	NA	10.8	NA	NA
n-C36 (Hexatriacontane)	mg/kg	NA	NA	0.619	NA	NA	0.561	NA	NA
n-C37	mg/kg	NA	NA	1.49	NA	NA	1.35	NA	NA
n-C38 (Octatriacontane)	mg/kg	NA	NA	0.236	NA	NA	0.366	NA	NA
n-C39 (Nonatriacontane)	mg/kg	NA	NA	0.315	NA	NA	0.315	NA	NA
n-C40 (Tetracontane)	mg/kg	NA	NA	--	NA	NA	--	NA	NA
n-C9 (Nonane)	mg/kg	NA	NA	--	NA	NA	--	NA	NA
Phytane (Hexadecane, 2,6,10,14-tetramethyl-)	mg/kg	NA	NA	0.451	NA	NA	0.277	NA	NA
Pristane (2,6,10,14-Tetramethylpentadecane)	mg/kg	NA	NA	0.119	NA	NA	0.098	NA	NA
Total Alkanes	mg/kg	NA	NA	65.7	NA	NA	65.2	NA	NA
Total Petroleum Hydrocarbons	mg/kg	NA	NA	705	NA	NA	673	NA	NA
Total Resolveable Hydrocarbons	mg/kg	NA	NA	364	NA	NA	331	NA	NA
Unresolved Complex Mixture	mg/kg	NA	NA	340	NA	NA	342	NA	NA
VOCs									
1,2,4-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/kg	--	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/kg	--	--	--	11 J	6 J	--	7 J	--
2-Phenylbutane	ug/kg	--	--	--	--	--	--	--	--
Acetone	ug/kg	27 J	13 J	100	62	28	140	36	20 J
Benzene	ug/kg	--	--	--	--	--	--	--	--
Chloroform	ug/kg	--	--	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/kg	--	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/kg	--	--	--	--	--	--	--	--
n-Butylbenzene	ug/kg	--	--	--	--	--	--	--	--
n-Propylbenzene	ug/kg	--	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/kg	--	--	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	1 J	--	--	--
Xylene (Total)	ug/kg	--	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
Lake Conway Sediment Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Notes:

% = percent
-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
E = Concentration exceeds the calibration range of the instrument (organic); estimate due to interference (inorganic)
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/kg = milligrams per kilogram
NA = not analyzed
PAH = polycyclic aromatic hydrocarbons
TPH = total petroleum hydrocarbon
ug/kg = micrograms per kilogram
VOCs = volatile organic compounds
R = The sample results are rejected

DARSP Surface Water Sampling
Data Table

Appendix K - Analytical Data Tables - Detected Analytes Only
DARSP Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Chemical	Units	WS-022DA 0 ft 8/13/2013 WS-022DA(SURFACE)081313 Tier II	WS-023DA 0 ft 8/13/2013 WS-023DA(SURFACE)081313 Tier II	WS-024DA 0.5-1 ft 8/13/2013 WS-024DA(MIDDEPTH)081313 Tier II	WS-025DA 3 ft 8/15/2013 WS-025DA(MIDDEPTH)081513 Tier II	WS-026DA 3 ft 8/15/2013 WS-026DA(MIDDEPTH)081513 Tier II	WS-027DA 3 ft 8/15/2013 WS-027DA(MIDDEPTH)081513 Tier II	WS-027DA 3 ft 8/15/2013 WS-DUP-01-DA-081513FD Tier II
Metals								
Arsenic - Dissolved	mg/l	--	--	--	--	--	--	--
Arsenic - Total	mg/l	--	--	--	--	--	--	--
Barium - Dissolved	mg/l	0.0208	0.0167	0.0215	0.0169	0.0223	0.0208	0.0209
Barium - Total	mg/l	0.0378	0.0383	0.0364	0.0324	0.0370	0.0321	0.0315
Cadmium - Dissolved	mg/l	--	--	--	--	--	--	--
Cadmium - Total	mg/l	--	--	--	--	--	--	--
Calcium - Total	mg/l	6.17 J	5.12 J	4.51 J	8.76 J	3.70 J	3.68 J	3.58 J
Chromium - Dissolved	mg/l	--	--	--	--	--	--	--
Chromium - Total	mg/l	0.0034 J	0.0060 J	0.0038 J	0.0022 J	0.0023 J	--	0.0018 J
Lead - Dissolved	mg/l	--	--	--	--	--	--	--
Lead - Total	mg/l	--	0.0057 J	--	--	--	--	--
Magnesium - Total	mg/l	3.55 J	2.98 J	1.69 J	4.34 J	1.67 J	1.61 J	1.55 J
Mercury - Dissolved	mg/l	--	--	--	--	--	--	--
Mercury - Total	mg/l	--	--	--	--	--	--	--
Nickel - Dissolved	mg/l	0.0042 J	0.0026 J	0.0017 J	0.0018 J	--	--	--
Nickel - Total	mg/l	0.0065 J	0.0065 J	0.0032 J	0.0030 J	0.0020 J	0.0018 J	--
Selenium - Dissolved	mg/l	--	--	--	--	--	--	--
Selenium - Total	mg/l	--	--	--	--	--	--	--
Silver - Dissolved	mg/l	--	--	--	--	--	--	--
Silver - Total	mg/l	--	--	--	--	--	--	--
Vanadium - Dissolved	mg/l	--	--	--	--	--	--	--
Vanadium - Total	mg/l	0.0035 J	0.0074	0.0043 J	0.0027 J	0.0024 J	--	--
Other								
Hardness (as CaCO3)	mg/l	30.0	25.1	18.2	39.8	16.1	15.8	15.3
Total Suspended Solids	mg/l	30.4 J	50.0 J	28.7 J	110	28.3	15.0	16.4
Priority PAHs								
1-Methylnaphthalene - Total	ng/l	--	--	--	--	10.5	18.0	23.41
2-Methylnaphthalene - Total	ng/l	--	--	--	--	--	23.4	28.63
Acenaphthene - Total	ng/l	--	--	--	--	1.31 J	7.00 J	10.88 J
Acenaphthylene - Total	ng/l	6.86 J	9.92 J	3.64 J	--	2.09	14.03	15.34
Anthracene - Total	ng/l	18.49 J	27.62 J	6.76 J	--	1.85	24.47	28.84
Benzo(a)Anthracene - Total	ng/l	3.57 J	5.10 J	2.33 J	--	1.08	25.39	24.58
Benzo(a)Pyrene - Total	ng/l	6.47 J	10.48 J	3.69 J	--	--	34.75	39.48
Benzo(b)Fluoranthene - Total	ng/l	27.76 J	39.22 J	12.40 J	--	2.47	99.8	100.66
Benzo(g,h,i)Perylene - Total	ng/l	13.56 J	18.67 J	5.89 J	--	2.12 J	49.14	54.74
Benzo(j)+(k)Fluoranthene - Total	ng/l	6.41 J	9.39 J	2.89 J	--	0.75 J	32.9	31.31
Chrysene/Triphenylene - Total	ng/l	11.77 J	16.80 J	8.11 J	--	2.52	54.38	62.62
Dibenz(a,h)Anthracene - Total	ng/l	3.33 J	4.35 J	1.59 J	--	1.11 J	13.82 J	5.31 J
Fluoranthene - Total	ng/l	9.36 J	15.48 J	10.33 J	--	4.79	64.56 J	90.01 J
Fluorene - Total	ng/l	--	1.61 J	1.64 J	--	4.95	17.93 J	24.87 J
Indeno[1,2,3-cd]pyrene - Total	ng/l	11.05 J	15.63 J	5.63 J	--	1.73	43.43	48.14
Naphthalene - Total	ng/l	--	--	47.35 J	--	--	21.45 J	31.01 J
Phenanthrene - Total	ng/l	--	--	--	--	--	42.38 J	61.62 J
Pyrene - Total	ng/l	9.30 J	12.84 J	5.11 J	--	3.05	49.78	59.38
Additional PAHs for TU								
Benzo(e)Pyrene - Total	ng/l	17.51 J	23.56 J	7.43 J	--	--	59.95	65.24
C1-Chrysenes - Total	ng/l	--	--	--	--	--	--	--
C1-Fluoranthenes/Pyrenes - Total	ng/l	9.32 J	--	--	--	--	43.19	49.73
C1-Fluorenes - Total	ng/l	--	--	--	--	8.81	24.02	32.12
C1-Phenanthrenes/Anthracenes - Total	ng/l	--	--	--	--	--	95.11	111.31
C2-Chrysenes - Total	ng/l	--	--	--	--	--	--	--
C2-Fluorenes - Total	ng/l	--	--	--	--	--	--	--
C2-Naphthalenes - Total	ng/l	--	--	--	--	30.85	68.40	92.46
C2-Phenanthrenes/Anthracenes - Total	ng/l	--	--	--	--	--	139.61	161.29
C3-Chrysenes - Total	ng/l	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
DARSP Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Chemical	Units	WS-022DA 0 ft 8/13/2013 WS-022DA(SURFACE)081313 Tier II	WS-023DA 0 ft 8/13/2013 WS-023DA(SURFACE)081313 Tier II	WS-024DA 0.5-1 ft 8/13/2013 WS-024DA(MIDDEPTH)081313 Tier II	WS-025DA 3 ft 8/15/2013 WS-025DA(MIDDEPTH)081513 Tier II	WS-026DA 3 ft 8/15/2013 WS-026DA(MIDDEPTH)081513 Tier II	WS-027DA 3 ft 8/15/2013 WS-027DA(MIDDEPTH)081513 Tier II	WS-027DA 3 ft 8/15/2013 WS-DUP-01-DA-081513FD Tier II
C3-Fluorenes - Total	ng/l	--	--	--	--	--	--	--
C3-Naphthalenes - Total	ng/l	--	--	--	--	43.27	75.78 J	127.75 J
C3-Phenanthrenes/Anthracenes - Total	ng/l	--	--	--	--	--	67.38 J	--
C4-Chrysenes - Total	ng/l	--	--	--	--	--	--	--
C4-Naphthalenes - Total	ng/l	--	--	--	--	--	53.07 J	--
C4-Phenanthrenes/Anthracenes - Total	ng/l	--	--	--	--	--	44.96 J	--
Perylene - Total	ng/l	3.44 J	5.10 J	--	--	0.97	105	136.81
Phenanthrene, 2-methyl- - Total	ng/l	--	--	--	--	--	13.0 J	16.89 J
Forensic PAHs								
1,1-Biphenyl - Total	ng/l	--	--	--	--	--	30.87	38.08
18a-Oleanane - Total	ng/l	--	--	--	--	--	--	--
1-Methyldibenzothiophene(1MDT) - Total	ng/l	--	--	--	--	4.68	14.8	19.95
1-Methylfluorene - Total	ng/l	--	--	--	--	4.89	12.5 J	18.09 J
1-Methylphenanthrene - Total	ng/l	--	--	--	--	--	10.3	10.93
2,3,5-Trimethylnaphthalene - Total	ng/l	--	--	--	--	4.48	9.97	11.02
2/3-Methyldibenzothiophene(2MDT) - Total	ng/l	--	--	--	--	3.13	13.7 J	19.39 J
2-Methylanthracene - Total	ng/l	--	--	--	--	--	57.6	59.92
2-Methylfluoranthene - Total	ng/l	1.01 J	--	--	--	--	5.04	4.82
3,6-Dimethylphenanthrene - Total	ng/l	--	--	--	--	--	2.96	--
3-Methylphenanthrene (3MP) - Total	ng/l	--	--	--	--	--	8.1 J	11.88 J
4-Methyldibenzothiophene(4MDT) - Total	ng/l	--	--	--	--	4.69	18.1	24.36
9/4-Methylphenanthrene (9MP) - Total	ng/l	--	--	--	--	--	11.6 J	18.19 J
Benzo(a)Fluoranthene - Total	ng/l	2.29 J	3.47 J	1.10 J	--	--	9.36 J	--
Benzo(b)fluorene - Total	ng/l	0.57 J	--	--	--	--	9.90	11.42
Benzothiophene - Total	ng/l	--	--	--	--	--	--	--
C1-Benzo(b)thiophenes - Total	ng/l	--	--	--	--	--	--	--
C1-Decalins - Total	ng/l	--	--	--	--	--	--	--
C1-Dibenzothiophenes - Total	ng/l	--	--	--	--	7.46	27.86 J	38.07 J
C1-Naphthalenes - Total	ng/l	--	--	--	--	10.26	27.29	34.25
C1-Naphthobenzothiophenes - Total	ng/l	--	--	--	--	--	21.79 J	32.25 J
C20-TAS - Total	ng/l	--	--	--	--	--	--	--
C21-TAS - Total	ng/l	--	--	--	--	--	--	--
C26(20R)/C27(20S)-TAS - Total	ng/l	--	--	--	--	--	--	--
C26(20S)-TAS - Total	ng/l	--	--	--	--	--	--	--
C27(20R)-TAS - Total	ng/l	--	--	--	--	--	--	--
C28(20R)-TAS - Total	ng/l	--	--	--	--	--	--	--
C28(20S)-TAS - Total	ng/l	--	--	--	--	--	--	--
C29-Hopane - Total	ng/l	--	--	--	--	--	--	--
C2-Benzo(b)thiophenes - Total	ng/l	--	--	--	--	--	--	--
C2-Decalins - Total	ng/l	--	--	--	--	--	--	--
C2-Dibenzothiophenes - Total	ng/l	--	--	--	--	10.26	42.31 J	63.35 J
C2-Fluoranthenes/Pyrenes - Total	ng/l	11.09 J	--	--	--	--	49.50 J	79.71 J
C2-Naphthobenzothiophenes - Total	ng/l	--	--	--	--	--	36.65 J	54.35 J
C30-Hopane - Total	ng/l	--	--	--	--	--	--	--
C3-Benzo(b)thiophenes - Total	ng/l	--	--	--	--	--	--	--
C3-Decalins - Total	ng/l	--	--	--	--	--	--	--
C3-Dibenzothiophenes - Total	ng/l	--	--	--	--	8.27	52.14 J	76.63 J
C3-Fluoranthenes/Pyrenes - Total	ng/l	4.71 J	--	--	--	--	--	40.83 J
C3-Naphthobenzothiophenes - Total	ng/l	--	--	--	--	--	34.26 J	51.49 J
C4-Benzo(b)thiophenes - Total	ng/l	--	--	--	--	--	--	--
C4-Decalins - Total	ng/l	--	--	--	--	--	--	--
C4-Dibenzothiophenes - Total	ng/l	--	--	--	--	--	40.11 J	55.70 J
C4-Fluoranthenes/Pyrenes - Total	ng/l	--	--	--	--	--	--	--
C4-Naphthobenzothiophenes - Total	ng/l	--	--	--	--	--	--	--
Carbazole - Total	ng/l	2.18 J	2.82 J	2.14 J	--	--	8.65	9.62
cis/trans-Decalin (Decahydronaphthalene) - Total	ng/l	--	--	--	--	--	--	--

Appendix K - Analytical Data Tables - Detected Analytes Only
DARSP Surface Water Sampling Data

Downstream Areas Data Assessment Report
ExxonMobil Environmental Services Company
Mayflower Pipeline Incident Response, Mayflower, Arkansas

Chemical	Units	WS-022DA 0 ft 8/13/2013 WS-022DA(SURFACE)081313 Tier II	WS-023DA 0 ft 8/13/2013 WS-023DA(SURFACE)081313 Tier II	WS-024DA 0.5-1 ft 8/13/2013 WS-024DA(MIDDEPTH)081313 Tier II	WS-025DA 3 ft 8/15/2013 WS-025DA(MIDDEPTH)081513 Tier II	WS-026DA 3 ft 8/15/2013 WS-026DA(MIDDEPTH)081513 Tier II	WS-027DA 3 ft 8/15/2013 WS-027DA(MIDDEPTH)081513 Tier II	WS-027DA 3 ft 8/15/2013 WS-DUP-01-DA-081513FD Tier II
Dibenzofuran - Total	ng/l	2.85 J	2.87 J	2.31 J	--	3.29	9.97 J	15.57 J
Dibenzothiophene - Total	ng/l	--	--	--	--	3.09	15.60	20.16
Naphthalene, 2,6-dimethyl- - Total	ng/l	--	--	--	--	6.72	21.5 J	32.23 J
Naphthobenzothiophene - Total	ng/l	--	--	--	--	--	19.50	19.91
Retene - Total	ng/l	--	--	--	--	--	7.24 J	--
TPH								
Oil & Grease	mg/l	--	--	--	--	--	--	--
VOCs								
1,2,4-Trimethylbenzene	ug/l	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene	ug/l	--	--	--	--	--	--	--
2-Butanone (MEK)	ug/l	--	--	--	1.3 J	--	--	--
2-Phenylbutane	ug/l	--	--	--	--	--	--	--
Acetone	ug/l	3.1 J	3.7 J	--	13	5.2	4.4 J	4.0 J
Benzene	ug/l	--	--	--	--	--	--	--
Chloroform	ug/l	--	--	--	--	0.1 J	--	--
Ethylbenzene	ug/l	--	--	--	--	--	--	--
Isopropylbenzene (Cumene)	ug/l	--	--	--	--	--	--	--
Methylene Chloride (Dichloromethane)	ug/l	--	--	--	--	--	--	--
n-Butylbenzene	ug/l	--	--	--	--	--	--	--
n-Propylbenzene	ug/l	--	--	--	--	--	--	--
p-Isopropyltoluene (Cymene)	ug/l	--	--	--	--	--	--	--
Toluene	ug/l	--	--	--	0.1 J	--	--	--
Trichloroethene	ug/l	0.2 J	0.4 J	--	--	--	0.2 J	0.3 J
Xylene (Total)	ug/l	--	--	--	--	--	--	--

Notes:

-- = Compound was not detected
B = Analyte was also detected in the blank (organic); value is <CRDL, but >IDL (inorganics)
Deg C = degrees Celsius
ft = feet
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
mg/l = milligrams per liter
NTU = Nephelometric Turbidity Units
PAH = polycyclic aromatic hydrocarbons
SU = standard units
TPH = total petroleum hydrocarbons
ug/l = micrograms per liter
uS/cm = microSiemens per centimeter
VOC = volatile organic compound