

Tables

**Northeast Drainage Ditch Removal Action
Hattiesburg, Mississippi**

Table 3-1

**Transportation & Disposal Summary
Northeast Drainage Ditch**

**WM Subtitle D Landfill
McNeill, Mississippi**

<u>Date Received</u>	<u>Loads</u>	<u>Tons</u>	<u>Work Performed By</u>	<u>Comment</u>
7/22/2003	13	257.16	City of H'burg	
7/23/2003	1	29.77	City of H'burg	
7/28/2003	22	476.52	City of H'burg	
8/8/2003	18	398.74	City of H'burg	
8/26/2003	6	145.90	City of H'burg	
8/27/2003	8	168.80	City of H'burg	
8/28/2003	9	222.18	City of H'burg	
8/29/2003	22	424.54	City of H'burg	
9/3/2003	13	259.62	City of H'burg	
9/4/2003	21	418.71	City of H'burg	
9/5/2003	28	617.85	City of H'burg	
9/8/2003	28	604.92	City of H'burg	
9/9/2003	50	1060.98	City of H'burg	
9/10/2003	43	1051.80	City of H'burg	
9/11/2003	53	1106.04	City of H'burg	
9/12/2003	42	903.88	City of H'burg	
9/15/2003	25	476.19	City of H'burg	
9/16/2003	17	362.58	City of H'burg	
9/17/2003	18	378.46	City of H'burg	
9/18/2003	11	247.84	City of H'burg	
9/19/2003	12	235.22	City of H'burg	
9/24/2003	18	395.93	City of H'burg	
9/25/2003	21	449.16	City of H'burg	
10/2/2003	2	38.90	City of H'burg	
10/13/2003	4	94.33	City of H'burg	
10/14/2003	6	138.43	City of H'burg	
10/15/2003	3	68.65	City of H'burg	
10/16/2003	4	96.13	City of H'burg	

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**Transportation & Disposal Summary
Northeast Drainage Ditch**

**WM Subtitle D Landfill
McNeill, Mississippi**

<u>Date Received</u>	<u>Loads</u>	<u>Tons</u>	<u>Work Performed By</u>	<u>Comment</u>
10/21/2003	6	110.09	City of H'burg	
10/22/2003	10	190.29	City of H'burg	
10/23/2003	4	79.02	City of H'burg	
10/29/2003	10	200.86	City of H'burg	
10/30/2003	31	679.27	City of H'burg	
10/31/2003	19	420.35	City of H'burg	
11/3/2003	3	76.95	City of H'burg	
11/4/2003	6	118.66	City of H'burg	
5/15/2006	9	209.85	Tronox	116 Townsend St.
5/16/2006	11	278.22	Tronox	116 Townsend St.
5/17/2006	2	47.12	Tronox	116 Townsend St.
8/10/2006	2	38.38	Tronox	116 Townsend St.
9/9/2006	4	115.54	Tronox	American Legion
9/11/2006	3	67.25	Tronox	Bevon Property
9/12/2006	1	16.6	Tronox	Bevon Property
4/23/2007	5	99.53	Tronox	106 Scooba St.
Total	644	13877.21		

Table 3-1

Transportation & Disposal Summary
Northeast Drainage Ditch

WM Subtitle C Landfill
Emelle, Alabama

<u>Date Received</u>	<u>Loads</u>	<u>Tons</u>	<u>Work Performed By</u>
9/17/2003	3	58.22	City of H'burg
9/18/2003	4	77.38	City of H'burg
9/19/2003	3	61.68	City of H'burg
9/24/2003	2	47.69	City of H'burg
9/25/2003	3	62.51	City of H'burg
Total	15	307.48	

Table 4-1
PAH Concentrations in Confirmation Samples
116 Townsend Street

Northeast Drainage Ditch Removal Action
Hattiesburg, Mississippi

Parameter	Units	116TSS-01(0-1')		116TSS-01A(0-1')		116TSS-02(0-1')		116TSS-03(0-1')		116TSS-04(0-1')		116TSS-05(0-1')		116TSS-05A(0-1')		116TSS-06(0-1')	
		Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ
Moisture	%	0.0086	0.0005	0.0084	0.0005	0.0085	0.0005	0.0118	0.0005	0.0098	0.0005	0.0165	0.0005	0.0165	0.0005	0.0109	0.0005
Naphthalene	mg/kg	N.D.	18	N.D.	0.37	N.D.	7.1	N.D.	1.9	N.D.	1.8	N.D.	20	N.D.	20	0.057	J 0.37
Acenaphthylene	mg/kg	N.D.	15	N.D.	0.28	N.D.	5.7	N.D.	1.5	N.D.	1.5	N.D.	18	N.D.	16	0.047	J 0.3
Acenaphthene	mg/kg	N.D.	15	N.D.	0.29	N.D.	5.7	N.D.	1.5	N.D.	1.5	N.D.	16	N.D.	16	N.D.	0.3
Fluorene	mg/kg	0.33	J 1.5	0.013	J 0.029	N.D.	0.57	0.059	J 0.15	N.D.	0.15	0.48	J 1.6	0.25	J 1.6	0.019	J 0.03
Phenanthrene	mg/kg	0.87	0.74	0.049	0.015	0.17	J 0.29	0.2	0.076	0.038	J 0.074	0.85	0.8	0.34	J 0.8	0.057	0.015
Anthracene	mg/kg	0.22	J 0.29	0.013	0.0059	0.033	J 0.11	0.028	J 0.03	0.015	J 0.029	0.26	J 0.32	0.12	J 0.32	0.0076	0.006
Fluoranthene	mg/kg	1.3	0.29	0.087	0.0059	0.4	0.11	0.21	0.03	0.11	0.029	5.9	0.32	2.7	0.32	0.036	0.006
Pyrene	mg/kg	2.9	1.5	0.16	0.029	0.65	0.57	0.55	0.15	0.4	0.15	10	1.6	5.9	1.6	0.038	0.03
Benzo(a)anthracene	mg/kg	1.2	0.37	0.037	0.0074	0.24	0.14	0.084	0.038	0.068	0.037	4.3	0.4	2.3	0.4	0.011	0.0075
Chrysene	mg/kg	1.1	0.74	0.064	0.015	0.3	0.29	N.D.	1.3	N.D.	0.94	4.5	0.8	2.8	0.8	N.D.	0.028
Benzo(b)fluoranthene	mg/kg	3.1	0.74	0.058	0.015	0.64	0.29	0.16	0.076	0.18	0.074	11	4	8.5	4	0.022	0.015
Benzo(k)fluoranthene	mg/kg	1.6	0.37	0.03	0.0074	0.29	0.14	0.13	0.038	0.12	0.037	5.2	0.4	3.9	0.4	0.011	0.0075
Benzo(e)pyrene	mg/kg	2.5	0.74	0.066	0.015	0.42	0.29	0.16	0.076	0.15	0.074	7.9	0.8	6.6	0.8	0.02	0.015
Dibenz(a,h)anthracene	mg/kg	0.26	J 0.29	N.D.	0.0059	0.047	J 0.11	0.016	J 0.03	0.014	J 0.029	0.8	0.32	0.81	0.32	N.D.	0.008
Indeno(1,2,3-cd)pyrene	mg/kg	1.8	0.74	0.053	0.015	0.34	0.29	0.12	0.076	0.15	0.074	6	0.8	5.8	0.8	0.016	0.015
Benzo(g,h,i)perylene	mg/kg	2.6	0.74	0.13	0.015	0.55	0.29	0.15	0.076	0.23	0.074	8.6	0.8	8.7	0.8	0.023	0.015

Notes:

LOQ - Laboratory Limit of Quantitation

N.D. - Not detected

J - estimated value - the result is greater than the Method Detection Limit (MDL) and less than the LOQ

Table 4-1

PAH Concentrations in Confirmation Samples
116 Townsend Street

Northeast Drainage Ditch Removal Action
Hattiesburg, Mississippi

Parameter	Units	116TSS-07(0-1')		116TSS-08(0-1')		116TSS-08A(0-1')		116TSS-09(0-1')		116TSS-09A(0-1')		116TSS-10(0-1')		116TSS-01(4-5')	
		Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ
Moisture	%	0.0176	0.0005	0.012	0.0005	0.0113	0.0005	0.0174	0.0005	0.0125	0.0005	0.0086	0.0005	0.0139	0.0005
Naphthalene	mg/kg	N.D.	20	N.D.	19	0.13	J 0.38	N.D.	8.1	N.D.	30	0.064	J 0.36	N.D.	7.7
Acenaphthylene	mg/kg	N.D.	16	N.D.	15	0.053	J 0.3	N.D.	6.5	N.D.	24	N.D.	0.29	N.D.	6.2
Acenaphthene	mg/kg	N.D.	16	N.D.	15	N.D.	0.3	N.D.	6.5	N.D.	24	N.D.	0.29	N.D.	6.2
Fluorene	mg/kg	0.34	J 1.6	N.D.	1.5	0.013	J 0.03	0.17	J 0.65	0.37	J 2.4	0.012	J 0.028	2.1	J 6.2
Phenanthrene	mg/kg	0.76	J 0.81	0.38	0.31	0.064	0.015	0.27	J 0.32	0.88	J 1.2	0.0076	J 0.015	3.1	0.62
Anthracene	mg/kg	0.21	J 0.32	0.12	0.12	0.068	J 0.3	0.081	J 0.13	0.17	J 0.49	0.0047	J 0.0058	9.6	0.31
Fluoranthene	mg/kg	4.2	0.32	0.87	0.3	0.13	0.006	1.3	0.13	3.6	0.49	0.012	0.0058	1.9	0.12
Pyrene	mg/kg	6.5	1.6	4.5	0.62	1.8	1.5	2.8	0.65	5.2	2.4	0.017	J 0.029	4.7	0.62
Benzo(a)anthracene	mg/kg	3	0.4	1.6	0.16	0.061	0.0075	1.3	0.16	2.2	0.61	0.0069	J 0.0073	1.1	0.15
Chrysene	mg/kg	3.6	0.81	0.71	J 0.76	0.078	0.015	1.5	0.32	1.7	1.2	N.D.	0.049	1.3	0.31
Benzo(b)fluoranthene	mg/kg	8.6	4	2.2	0.31	2.3	0.76	3.9	0.81	5.9	1.2	0.02	0.015	0.99	0.31
Benzo(k)fluoranthene	mg/kg	4.3	0.4	1.3	0.38	0.063	0.0075	2.1	0.16	2.6	0.61	0.01	0.0073	0.53	0.15
Benzo(a)pyrene	mg/kg	6.5	0.81	1.6	0.31	0.089	0.015	3.5	0.81	5	1.2	0.017	0.015	1.1	0.31
Dibenz(a,h)anthracene	mg/kg	0.76	0.32	0.14	0.12	0.24	J 0.3	0.35	0.13	0.49	0.49	N.D.	0.0058	0.098	J 0.12
Indeno(1,2,3-cd)pyrene	mg/kg	5.3	0.81	1.8	0.76	0.095	0.015	2.7	0.32	5.5	1.2	0.011	J 0.015	0.74	0.31
Benzo(g,h,i)perylene	mg/kg	7.7	0.81	2	0.31	2.8	0.76	3.8	0.32	8.7	1.2	0.016	0.015	0.72	0.31

Notes:

LOQ - Laboratory Limit of Quantitation

N.D. - Not detected

J - estimated value - the result is greater than the Method Detection Limit (MDL) and less than the LOQ

Table 4-1

PAH Concentrations in Confirmation Samples
116 Townsend Street

Northeast Drainage Ditch Removal Action
Hattiesburg, Mississippi

Parameter	Units	116TSW-02(4-5)		116TSW-03(4-5)		116TSW-04(4-5)		116TSW-05(3-4)		116TSW-06(3-4)		116TSW-07(3-4)		116TSW-08(3-4)		116TSW-09(3-4)	
		Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ	Result	LOQ
Moisture	%	0.016	0.0005	0.0173	0.0005	0.0162	0.0005	0.0133	0.0005	0.0134	0.0005	0.0166	0.0005	0.0166	0.0005	0.0175	0.0005
Naphthalene	mg/kg	N.D.	20	4.4	J 8.1	N.D.	8	N.D.	3.8	N.D.	0.38	N.D.	2	0.1	J 0.4	0.11	J 0.4
Acenaphthylene	mg/kg	N.D.	16	N.D.	6.4	N.D.	6.4	N.D.	3.1	N.D.	0.31	N.D.	1.6	N.D.	N.D.	0.067	J 0.32
Acenaphthene	mg/kg	N.D.	16	1.8	J 6.4	N.D.	6.4	N.D.	3.1	N.D.	0.31	N.D.	1.6	N.D.	N.D.	N.D.	0.32
Fluorene	mg/kg	1.6	1.6	1.8	0.64	0.24	J 0.64	N.D.	0.31	0.016	J 0.031	0.028	J 0.16	0.13	J 0.032	0.029	J 0.032
Phenanthrene	mg/kg	3.1	0.79	4.9	0.32	0.25	J 0.32	N.D.	0.15	0.014	J 0.015	0.046	J 0.08	0.034	0.016	0.067	0.016
Anthracene	mg/kg	1.6	0.32	0.66	0.13	0.13	J 0.13	0.0086	J 0.062	0.0029	J 0.0062	0.015	J 0.032	N.D.	0.012	0.012	0.0065
Fluoranthene	mg/kg	24	1.6	2.9	0.13	0.97	0.13	0.089	0.062	0.039	0.0062	0.099	0.032	0.0061	J 0.0064	0.034	0.0065
Pyrene	mg/kg	35	1.6	3	0.64	1.7	0.64	0.15	J 0.31	0.13	0.031	0.17	0.16	0.012	J 0.032	0.028	J 0.032
Benzo(a)anthracene	mg/kg	12	2	0.78	0.16	0.84	0.16	0.076	J 0.077	0.041	0.0077	0.092	0.04	0.0041	J 0.008	0.0081	J 0.0081
Chrysene	mg/kg	17	0.79	0.83	0.32	1.7	0.32	0.13	J 0.15	0.056	0.015	0.11	0.08	N.D.	0.11	N.D.	0.16
Benzo(b)fluoranthene	mg/kg	16	4	1.1	0.32	2.7	0.8	0.27	0.15	0.19	0.15	0.27	0.08	0.012	J 0.016	0.011	J 0.016
Benzo(k)fluoranthene	mg/kg	7.9	2	0.56	0.16	1.3	0.16	0.12	0.077	0.089	0.0077	0.12	0.04	0.0064	J 0.008	0.0053	J 0.0081
Benzo(a)pyrene	mg/kg	18	4	1	0.32	3.1	0.8	0.27	0.15	0.16	0.15	0.25	0.08	0.011	J 0.016	0.0098	J 0.016
Dibenz(a,h)anthracene	mg/kg	1.1	0.32	0.089	J 0.13	0.25	0.13	N.D.	0.062	0.018	0.0062	0.025	J 0.032	N.D.	0.0064	N.D.	0.0065
Indeno(1,2,3-cd)pyrene	mg/kg	9.6	0.79	0.7	0.32	2.6	0.32	0.19	0.15	0.16	0.015	0.22	0.08	0.01	J 0.016	0.0093	J 0.016
Benzo(g,h,i)perylene	mg/kg	9.4	0.79	0.95	0.32	2.9	0.32	0.2	0.15	0.2	0.015	0.27	0.08	0.016	0.016	0.013	J 0.016

Notes:

LOQ - Laboratory Limit of Quantification

N.D. - Not detected

J - estimated value - the result is greater than the Method Detection Limit (MDL), and less than the LOQ

Table 4-2

**Benzo(a)pyrene Concentrations in Surface Soil Samples
116 Townsend Street**

**Northeast Drainage Ditch Removal Action
Hattiesburg, Mississippi**

Sample ID	B(a)p (mg/kg)
116TSS-01/0-1'	2.5
116TSS-01A/0-1' (a)	0.066
116TSS-02/0-1'	0.42
116TSS-03/0-1'	0.16
116TSS-04/0-1'	0.15
116TSS-05/0-1'	7.9
116TSS-05A/0-1' (a)	6.6
116TSS-06/0-1'	0.02
116TSS-07/0-1'	6.5
116TSS-07A/0-1' (a)	1.6
116TSS-08/0-1'	2.1
116TSS-08A/0-1' (a)	0.099
116TSS-09/0-1'	3.5
116TSS-09A/0-1' (a)	5.0
116TSS-10/0-1'	0.017

(a) - "Step-out" from initial surface soil sample
"Boxed" sample from soil removal area

Average of all surface soil samples = 2.44

Average of all after removal = 0.61