

Appendix E
Air Monitoring Reports
Remedial Action Report
Former Gulf States Creosoting Site
Hattiesburg, Mississippi

December 9, 2003

Mr. Richard Ellis
Singley Construction Company, Inc.
P.O. Box 389
Columbia, Mississippi 39429



Re: EarthCon Project No. S149.001
Ambient Air Monitoring and Sampling
September 23 - November 3, 2003
Kerr McGee Creosote Site
Hattiesburg, Mississippi

Dear Mr. Ellis:

This report summarizes ambient air monitoring and sampling activities conducted by Earth Consulting Group, Inc. (EarthCon) at the above-referenced location from September 23 through November 3, 2003. The ambient air monitoring and sampling activities were conducted by Matthew Courtney and Kevin Ivy, EarthCon Air Monitoring Technicians, with oversight provided by W. Hal Moore, EarthCon Senior Project Manager. Air monitoring and sampling was conducted to quantify and document ambient air concentrations of Coal Tar Pitch Volatiles (CTPV) in, and near, the work area during excavation of creosote-contaminated soil from an intermittent stream (storm water drainage ditch).

The main chemicals of concern in CTPVs are polycyclic aromatic hydrocarbons (PAHs), which are also known as polynuclear aromatic hydrocarbons (PNAHs). Possible health hazards associated with PAH exposure include cancer, skin problems, immunodeficiency, and reproductive difficulties for both the exposed and their offspring. More than 100 different chemicals are compiled into the general category of polycyclic aromatic hydrocarbons, including benzo[a]pyrene and dibenz[a]anthracene, which are known to cause cancer, and pyrene, acridine, chrysene, phenanthrene, and anthracene. The U.S. Department of Labor Occupational Safety & Health Administration (OSHA) has not established a substance-specific standard for occupational exposure to CTPVs. Exposures are regulated under OSHA's Air Contaminants Standard.

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Tupelo, Mississippi 38801
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The following table presents exposure limits established for CTPVs and related substances:

Substance	OSHA PEL	NIOSH REL	ACGIH TLV
CTPVs	0.2 mg/m ³ (benzene-soluble fraction)	0.1 mg/m ³ (cyclohexane-extractable fraction)	0.2 mg/m ³ (benzene-soluble fraction)
PAHs	0.2 mg/m ³	0.1 mg/m ³ (10 hour exposure)	<i>not established</i>

Note: Values are for an 8 hour time-weighted-average (TWA) exposure, except for the NIOSH REL for PAHs, which is based on a 10 hour TWA exposure.

Summary of Field Activity

EarthCon provided ambient air monitoring during mobilization, start-up, and excavation activities using a Thermo Environmental Instruments, Inc. Model 680 Portable Hydrocarbon Vapor Meter, which utilizes a flame ionization detector (FID). A summary of the direct readings is included in Appendix A.

EarthCon also collected air samples at selected locations near the active excavation areas utilizing Gilian BDX II air sampling pumps. The pumps were initially calibrated to 2 Liters/minute (LPM) using a mini-Buck Primary Flow Calibrator and then calibrated prior to each use using a low-flow rotameter that was also calibrated to the mini-Buck Primary Flow Calibrator. The air samples were collected by drawing known amounts of air through cassettes containing glass fiber filters (GFF). The filters were shipped to Entek Environmental Laboratories, Inc., Baton Rouge, Louisiana, to be analyzed for CTPVs by OSHA Method 58. According to OSHA Method 58, the filters are analyzed by extracting with benzene and gravimetrically determining the benzene-soluble fraction (BSF). If the BSF exceeds the appropriate PEL (0.2 mg/m³), then the sample is analyzed by high performance liquid chromatography (HPLC) with a fluorescence (μ L) or ultraviolet (UV) detector to determine the presence of selected PAHs.

The following Table 1 summarizes the analytical results of the air samples collected during excavation activities which occurred from September 23 through November 3, 2003. Please refer to the attached Figure 1 - Site Location Map and Figure 2 - Site Plan for air sampling areas and Appendix B for laboratory reports. Specific air sampling locations are described in the field data sheets attached to the laboratory reports.

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
KERR MCGEE CREOSOTE SITE
HATTIESBURG, MISSISSIPPI

Sample No.	Date	Benzene-soluble Fraction (mg/m ³)	OSHA PEL (mg/m ³)
92301	09/23/03	0.07	0.2
92302	09/23/03	0.04	0.2
92401	09/24/03	0.03	0.2
92402	09/24/03	0.03	0.2
92501	09/25/03	0.02	0.2
92502	09/25/03	0.02	0.2
92901	09/29/03	<0.01	0.2
92902	09/29/03	0.01	0.2
92903	09/29/03	0.02	0.2
92904	09/29/03	<0.01	0.2
93001	09/30/03	0.02	0.2
93002	09/30/03	0.02	0.2
93003	09/30/03	0.04	0.2
93004	09/30/03	0.01	0.2
1011	10/01/03	<0.01	0.2
1012	10/01/03	0.01	0.2
1013	10/01/03	0.04	0.2
1014	10/01/03	0.03	0.2
10201	10/02/03	0.01	0.2
10202	10/02/03	0.03	0.2
10203	10/02/03	0.07	0.2
10204	10/02/03	0.19	0.2
10601	10/06/03	0.017	0.2

TABLE 1 (continued)
SUMMARY OF ANALYTICAL RESULTS
KERR MCGEE CREOSOTE SITE
HATTIESBURG, MISSISSIPPI

Sample No.	Date	Benzene-soluble Fraction (mg/m ³)	OSHA PEL (mg/m ³)
10602	10/06/03	0.030	0.2
10603	10/06/03	0.013	0.2
10604	10/06/03	0.022	0.2
10605	10/06/03	<0.01	0.2
10701	10/07/03	0.017	0.2
10702	10/07/03	0.015	0.2
10703	10/07/03	0.078	0.2
10704	10/07/03	<0.01	0.2
10801	10/08/03	0.013	0.2
10802	10/08/03	<0.01	0.2
10803	10/08/03	0.026	0.2
10804	10/08/03	0.302	0.2
10805	10/08/03	<0.01	0.2
10901	10/09/03	0.011	0.2
10902	10/09/03	0.030	0.2
10903	10/09/03	0.015	0.2
10904	10/09/03	0.015	0.2
101301	10/13/03	0.074	0.2
101302	10/13/03	0.032	0.2
101303	10/13/03	0.042	0.2
101304	10/13/03	0.019	0.2
101401	10/14/03	0.041	0.2
101402	10/14/03	0.017	0.2
101403	10/14/03	0.028	0.2
101404	10/14/03	0.033	0.2
101501	10/15/03	<0.037	0.2
101502	10/15/03	0.052	0.2

0.302 - bold value exceeds OSHA PEL for BSF

TABLE 1 (continued)
SUMMARY OF ANALYTICAL RESULTS
KERR MCGEE CREOSOTE SITE
HATTIESBURG, MISSISSIPPI

Sample No.	Date	Benzene-soluble Fraction (mg/m ³)	OSHA PEL (mg/m ³)
101503	10/15/03	0.033	0.2
101504	10/15/03	<0.009	0.2
101601	10/16/03	<0.009	0.2
101602	10/16/03	<0.009	0.2
101603	10/16/03	0.030	0.2
101604	10/16/03	0.059	0.2
101605	10/16/03	<0.009	0.2
101606	10/16/03	0.024	0.2
101607	10/16/03	0.011	0.2
101608	10/16/03	0.091	0.2
101701	10/17/03	0.054	0.2
101702	10/17/03	0.067	0.2
101703	10/17/03	0.020	0.2
101704	10/17/03	0.043	0.2
102101	10/21/03	0.031	0.2
102102	10/21/03	0.041	0.2
102103	10/21/03	0.033	0.2
102104	10/21/03	0.030	0.2
102201	10/22/03	0.031	0.2
102202	10/22/03	0.011	0.2
102203	10/22/03	0.009	0.2
102204	10/22/03	<0.009	0.2
102205	10/22/03	<0.021	0.2
102206	10/22/03	<0.021	0.2
102207	10/22/03	<0.021	0.2
102208	10/22/03	<0.021	0.2
102301	10/23/03	0.009	0.2
102302	10/23/03	<0.009	0.2
102303	10/23/03	<0.009	0.2

TABLE 1 (continued)
SUMMARY OF ANALYTICAL RESULTS
KERR MCGEE CREOSOTE SITE
HATTIESBURG, MISSISSIPPI

Sample No.	Date	Benzene-soluble Fraction (mg/m ³)	OSHA PEL (mg/m ³)
102304	10/23/03	<0.009	0.2
102401	10/24/03	<0.012	0.2
102402	10/24/03	<0.012	0.2
102403	10/24/03	<0.012	0.2
102404	10/24/03	<0.012	0.2
102901	10/24/03	<0.009	0.2
102902	10/24/03	<0.009	0.2
102903	10/24/03	0.015	0.2
102904	10/24/03	<0.009	0.2
103001	10/30/03	0.031	0.2
103002	10/30/03	0.013	0.2
103003	10/30/03	0.017	0.2
103004	10/30/03	0.039	0.2
103101	10/31/03	0.017	0.2
103102	10/31/03	0.011	0.2
103103	10/31/03	0.011	0.2
103104	10/31/03	0.011	0.2
110301	11/03/03	<0.009	0.2
110302	11/03/03	<0.009	0.2
110303	11/03/03	0.011	0.2
110304	11/03/03	0.022	0.2

Sample number 10804 exceeded the BSF PEL; therefore, HPLC analysis for individual PAHs were performed. The following Table 2 summarizes the analytical results of the HPLC analysis.

TABLE 2
SUMMARY OF HPLC ANALYSIS
KERR MCGEE CREOSOTE SITE
HATTIESBURG, MISSISSIPPI

PAH	Sample No.	Concentration (ppb)	OSHA Target Concentration (ppm)
Phenanthrene	10804	<0.095	1.22
Anthracene	10804	<0.095	0.11
Pyrene	10804	<0.084	1.09
Chrysene	10804	<0.074	0.35
Benzo(a)pyrene	10804	<0.067	0.24

Discussion of Results

With the exception of sample number 10804, all of the air sample results were well below the OSHA PEL for BSF of 0.2 mg/m³. Although the BSF analysis of sample number 10804 exceeded the OSHA PEL, the results of the HPLC analysis were below the OSHA Target Concentrations for each individual PAH constituent.

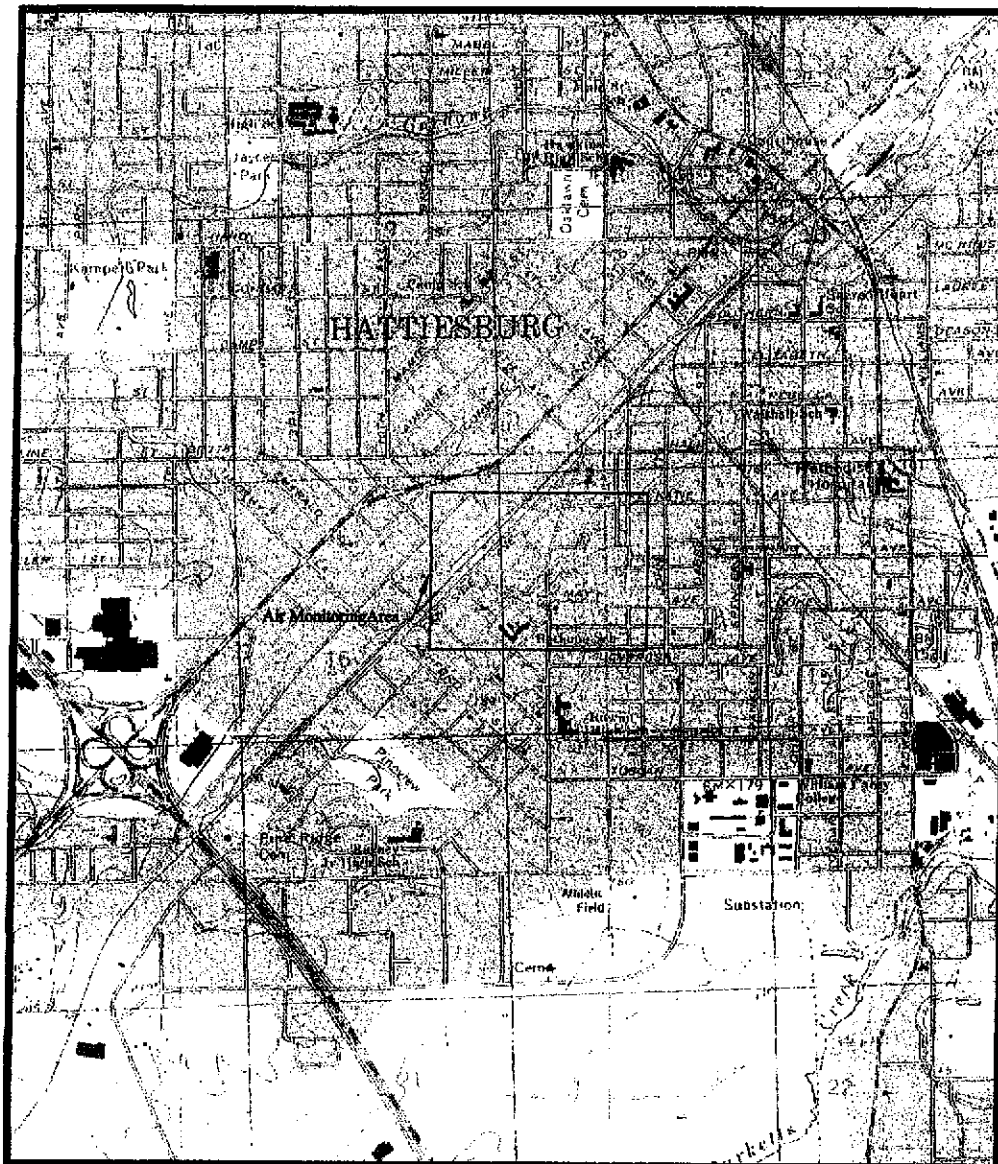
Based on a review of the air sample analytical results and direct readings collected in, and around, the excavated areas, workers in areas were not exposed to CTPVs in excess of regulatory limits. Should you have any questions concerning the contents of this report, please contact us at your convenience at (601) 853-2134. EarthCon appreciates the opportunity to provide you with environmental consulting services.

Sincerely,
Earth Consulting Group, Inc.



Kirk L. Giessinger
Certified Indoor Air Quality Consultant

Attachments

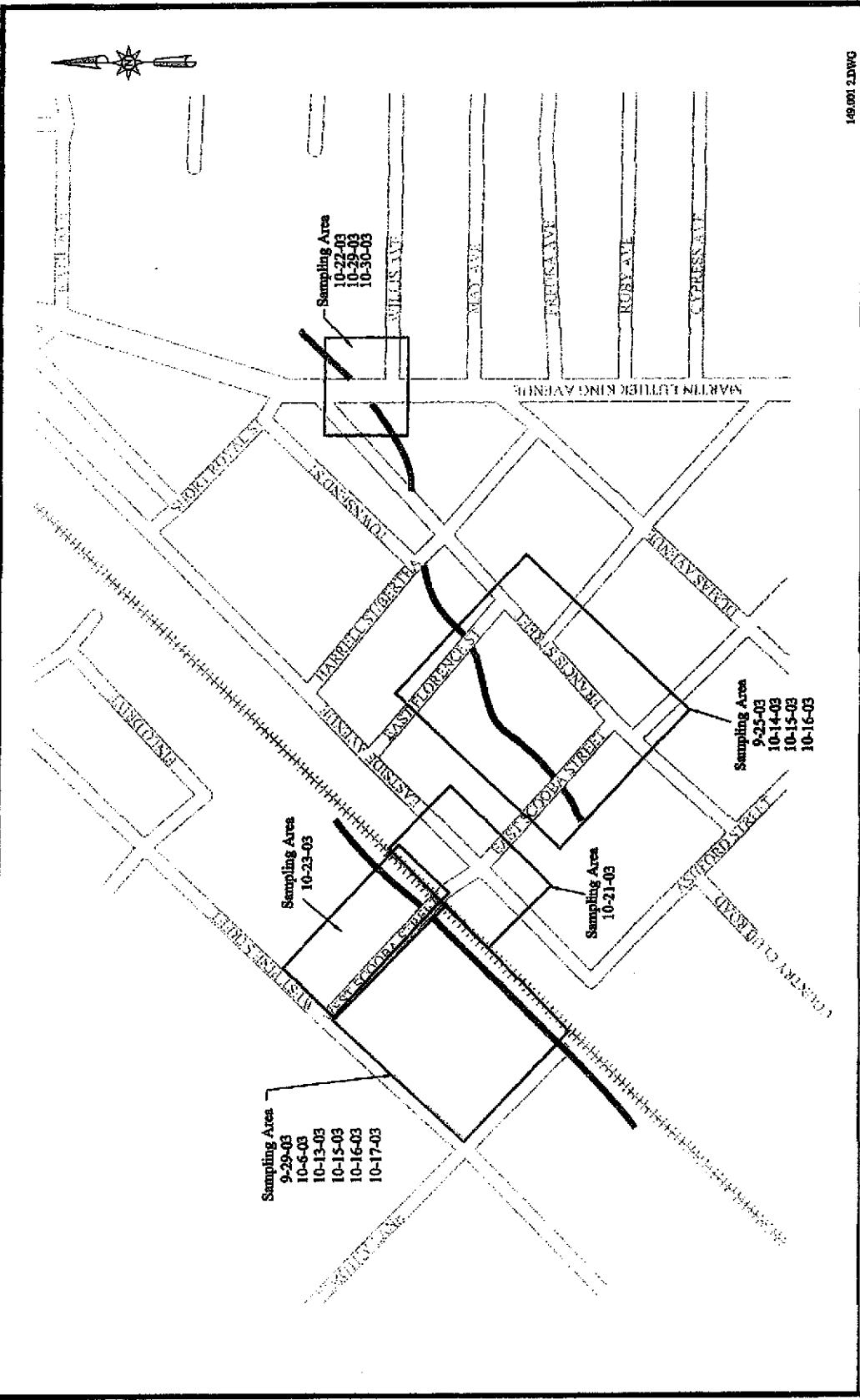


SOURCE: USGS 7.5' MAP - HATTIESBURG QUADRANGLE - 1996

Forma Conroy



Earth Consulting Group, Inc.					
P.O. Box 1246 Madison, MS 39130 Tel:(601)853-2134 Fax:(601)856-3978					
<small>DRAWN BY:</small>	<small>CHECKED BY:</small>	<small>SCALE:</small>	<small>DATE:</small>	<small>PROJECT NO.:</small>	
Glen Ivey	Kirk Glassinger	1" = 2000'	12/01/02		S149.001
<small>PROJECT:</small> Singley Construction - Air Monitoring - Hattiesburg, Mississippi					
<small>TITLE:</small> SITE LOCATION MAP					<small>FIGURE:</small>
					1



149.001 2.DWG

Earth Consulting Group, Inc.

P.O. Box 1246 Madison, MS 39130 Tel:(601)853-2134 Fax:(601)856-3978

DRAWN BY: Chen, Juey	CHECKED BY: Kirk Glasinger	SCALE:	NTS	DATE:	12/01/03	PROJECT NO.:	S149.001
PROJECT:							Singley Construction - Air Monitoring - Hattiesburg, Mississippi
TITLE:							SITB PLAN
							PROJ#
							2

LEGEND:



Singley-Kerr McGee project
Hattiesburg, MS

Data For Singley - Kerr McGee, Project #:S149.001
 Compiled by Matthew Courtney

Date	Time/Reading	Time	Location/Wind
09/23/2003		730	
		800	
		830	
		900	
		930	
		1000	
		1030	
		1100	
		1130	
		1200	
		1300	
		1330	
		1400	
		1430	
		1500	
		1530	
		1600	
	1630		
	1700		

Date	Time/Reading	Time	Location/Wind
09/24/2003	0	730	W. Side of Florence St., Wind Still
	0	800	"
	0.8	830	"
	3.8	900	"
	0.5	930	"
	7.9	1000	"
	10.4	1030	"
	17.2	1100	"
	12.3	1130	"
	4.3	1200	"
	0	1300	"
	0	1330	"
	12.1	1400	"
	3	1430	"
	4	1500	Wind NE @~5MPH
	1.8	1530	"
	1.2	1600	"
3	1630	"	
0	1700	"	

Date	Time/Reading	Time	Location/Wind
09/25/2003		730	
		800	
		830	

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Hattiesburg, MS**

900
930
1000
1030
1100
1130
1200
1300
1330
1400
1430
1500
1530
1600
1630
1700

Date	DRK Reading	Time	Location/Wind
09/29/2003	0	730	Not Digging
	0	800	"
	0	830	"
	0	900	"
	0	930	Lot behind Ford Dealership Between Road & Body Shop
	0.17	1000	"
	0.22	1030	"
	0	1100	"
	0	1130	"
	0	1200	"
	2.17	1230	"
	0	1300	"
	0	1330	"
	0.22	1400	"
	0.29	1430	"
	2.8	1500	"
	6.25	1530	"
	15.9	1600	"
	1.37	1630	"
	0	1700	"

Date	DRK Reading	Time	Location/Wind
09/30/2003		730	
	0.86	800	
	1.22	830	
	1.57	900	
	0.62	930	
	0	1000	
	0.94	1030	
	0.63	1100	
	0.47	1130	
	6.27	1200	

**Singley-Kerr McGee project
Hattiesburg, MS**

2.38	1230
1.49	1300
0.65	1330
0	1400
0	1430
2.61	1500
1.64	1530
0	1600
0	1630
0	1700

Date	EP Reading	Time	Location/Wind
10/01/2003	0	730	Not Digging
	0	800	"
	0	830	"
	0	900	"
	0	930	Lot Behind Ford Dealership/N @~2-5mph
	4.67	1000	"
	2.56	1030	"
	5.07	1100	"
	5.08	1130	"
	2.17	1200	"
	1.07	1230	"
	7.05	1300	"
	4.68	1330	"
	5.32	1400	"
	6.63	1430	"
	0	1500	not digging
	0	1530	not digging
	0	1600	not digging
	0	1630	not digging
	2.13	1700	Lot Behind Ford Dealership/N @~2-5mph

Date	EP Reading	Time	Location/Wind
10/02/2003		730	
	0	800	
	0	830	
	1.26	900	
	1.59	930	
	0	1000	
	0	1030	
	0	1100	
	0	1130	
	0	1200	
	0	1230	
	9.46	1300	
	0	1330	
	0	1400	
	2.11	1430	
	2.65	1500	

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Hattiesburg, MS**

0 1530
0 1800
0 1630
1700

Date	PH Reading	Time	Location/Wind
10/06/2003	10.07	915	Lot Behind Ford Dealership in second containment site/
	9348	945	"
	5.38	1015	"
	5.8	1045	"
	6.38	1115	"
	5.75	1145	"
	0	1215	not digging
	0	1245	not digging
	0	1315	not digging
	4.86	1330	Lot Behind Ford Dealership in second containment site/
	3.75	1400	"
	6.21	1430	"
	0	1500	not digging
	0	1530	not digging
	0	1600	not digging
	2.29	1630	"
4.07	1700	"	

Date	PH Reading	Time	Location/Wind
10/07/2003	0	730	Second Containment
	2.7	800	
	8.16	830	
	3.41	900	
	1.04	930	
	1.28	1000	
	2.65	1030	
	2.05	1100	
	0	1130	
	2.41	1200	
	1.78	1230	
	1.01	1300	
	0	1330	
	0	1400	
	0	1430	
	1.78	1500	
	2.12	1530	
0	1600		
0	1630		
0	1700		

Date	PH Reading	Time	Location/Wind
10/08/2003	0	730	Second Containment/Wind NE @~2-5mph
	1.07	800	"
	0.72	830	"

**Singley-Kerr McGee project
Hattiesburg, MS**

0	900 "
0	930 "
0	1000 "
1.47	1030 "
0	1100 "
0	1130 "
0	1200 "
0	1300 "
0	1330 "
0	1400 "
0	1430 "
0	1500 "
0	1530 "
0	1600 "
0	1630 "
0	1700 "

Date	Direction	Time	Location/Notes
10/09/2003	0	730	Second Containment
	0	800	"
	0	830	"
	1.21	900	"
	1.49	930	"
	0	1000	"
	0	1030	"
	0	1100	"
	0	1130	"
	0	1200	"
	0	1300	"
	0	1330	"
	0	1400	off site

Did not work on 10/10/03

Date	Direction	Time	Location/Notes
10/13/2003	na	730	
	na	800	
	na	830	
	na	900	
	34.07(*)	945	Florence Street/N ~2-5mph
	0.26	1015	"
	0	1045	"
	9.37	1215	"
	0	1245	"
	0	1315	"
	0	1345	"
	5.93	1445	"
	0	1515	"
	0	1545	"
	12.15	1615	"

Notes: 0730-0945: Singley
a big pile of dirt that had be
excavated- no new digging
(*likely due to natural gas

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Hattiesburg, MS**

<u>Date:</u>	<u>FID Reading</u>	<u>Time</u>	<u>Location/Wind</u>
10/13/03(cont'd)	0	1045	Ditch behind Courtesy Ford/N~2-5mph
	0	1115	"
	0	1145	"
	2.79	1345	"
	0.87	1415	"
	0.99	1445	"

<u>Date:</u>	<u>FID Reading</u>	<u>Time</u>	<u>Location/Wind</u>
10/14/2003		730	
	0	800	
	0	830	
	2.75	900	
	1.32	930	
	0	1000	
	0	1030	
	3.76	1100	
	0	1130	
	0	1200	
	0	1300	
	1.49	1330	
	0	1400	
	0	1430	
	0	1500	
	0	1530	

<u>Date:</u>	<u>FID Reading</u>	<u>Time</u>	<u>Location/Wind</u>
10/15/2003		730	
	0	800	"
	0	830	"
	0	900	"
	0	930	"
	0.74	1000	"
	0	1030	"
	1.64	1100	"
	2.75	1130	"
	0	1200	"
	0	1300	"
	0	1330	"
	0	1400	"
	0	1430	"
	1.12	1500	"
	0	1530	"
	0	1600	"
	0	1630	"

<u>Date:</u>	<u>FID Reading</u>	<u>Time</u>	<u>Location/Wind</u>
10/16/2003		730	
	0	800	

**Singley-Kerr McGee project
Hattiesburg, MS**

1.27	830
0	900
0	930
2.68	1000
1.01	1030
0	1100
0	1130
2.49	1200
0	1230
0	1300
0	1330
2.24	1400
0	1430
1.51	1500
0	1530
0	1600
0	1630
0	1700

10/17/2003

na	730	Ditch behind Body Shop/Wind calm
0	800	"
0	830	"
3.28	900	"
6.87	930	"
1.08	1000	Ditch behind Body Shop/wind SW ~5-10mph
0.23	1030	"
4.79	1100	"
9.09	1130	"
0	1200	"
0	1300	"
4.46	1330	"
3.61	1400	"

**did not dig from 1200-1300*

10/22/2003

na	730	Intersection of Scooba & East Side/N@~5mph
0	800	"
1.72	830	"
2.75	900	"
0.55	930	"
0	1000	"
0	1030	"
0	1100	"
0	1130	"
0	1200	"
0	1300	MLK/Wind from North West @5-10mph

**Singley-Kerr McGee project
Hattiesburg, MS**

0	1330 "
0	1400 "
0	1430 "
0	1500 "
0	1530 "
0	1600 "
0	1630 "
0	1700 "

***did not dig from 1400-1500&1430-1500**

Date	HP/Reedmeter	Time	Location/Wind
10/23/2003		730	
	0	800	
	1.8	830	
	2.24	900	
	1.95	930	
	2.67	1000	
	2.21	1030	
	3.1	1100	
	0	1130	
	0	1200	
	1.65	1230	
	1.04	1300	
	2.71	1330	
	1.52	1400	
	0	1430	
	3.22	1500	
	3.68	1530	
	1.46	1600	
	0	1630	
		1700	

Date	HP/Reedmeter	Time	Location/Wind
10/24/2003	na	730	Ditch Behind Courtesy Ford Body Shop/Wind Calm
	0	800 "	
	0	830 "	
	0	900 "	
	0	930 "	
	0	1000 "	
	0	1030 "	
	11.16	1100	Ditch behind Body Shop/S@~5mph
	0	1130 "	
	0	1200 "	
	0	1300 "	
	1.35	1330 "	
	0	1400 "	
	0	1430 "	
	0	1500 "	

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Hattiesburg, MS**

***did not dig from 0800-1000&1400-1500**

Date	Time Reading	Time	Location/Wind
10/29/2003	na	730	North side of MLK, digging towards school/wind calm
	0	800	"
	0	830	"
	0	900	"
	2.69	930	North side of MLK/S@~2mph
	0.56	1000	"
	0	1030	"
	0	1100	"
	0	1130	"
	0	1200	"
	1.65	1300	"
	0	1330	"
	0	1400	"
	0	1430	"
	0	1500	"
	0	1530	"
	0	1600	"
	0	1630	"
	0	1700	"

***not digging from 0800-0830, 0930-1130, 1300-1400, and 1500-1700**

Date	Time Reading	Time	Location/Wind
10/31/2003		730	
	0	800	
	0	830	
	1.65	900	
	2.39	930	
	1.24	1000	
	0	1030	
	0	1100	
	0	1130	
	0	1200	
	0	1230	
	0	1300	
	2.61	1330	
	1.41	1400	
	1.95	1430	
	0	1500	
	0	1530	
	0	1600	
	0	1630	
	0	1700	

**Singley-Kerr McGee project
Hattiesburg, MS**

<u>Date</u>	<u>FID Reading</u>	<u>Time</u>	<u>Location/Wind</u>
10/31/2003	na	730	MLK/S@~2mph
	0	800	"
	0	830	"
	2.98	900	"
	0	930	"
	0	1000	"
	0	1030	"
	0	1100	"
	1.25	1130	"
	1.2	1200	"
	0	1300	"
	0	1330	"
	0	1400	"
	0	1430	"

<u>Date:</u>	<u>FID Reading</u>	<u>Time</u>	<u>Location/Wind</u>
11/03/2003	na	730	MLK/wind calm
	0	800	"
	0	830	"
	0	900	"
	0	930	"
	0	1000	"
	0	1030	"
	0	1100	"
	0	1130	"
	0	1200	"
	1.16	1300	"
	0.76	1330	"
	0	1400	"
	0	1430	"
	0	1500	"
	0	1530	"
	0	1600	"
	0	1630	"
	0	1700	"

**not digging from 0800-1000 and 1430-1500*

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ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
KERR - McGEE / HATTIESBURG, MS SAMPLES
COAL TAR VOLATILE ANALYSES**

Samples Received: 10/03/03

FOR

**EARTH CONSULTING GROUP
POST OFFICE BOX 1246
MADISON, MS 39130**

ATTENTION: C. THOMAS

**OCTOBER 22, 2003
PROJECT NO.: 3-3383**

Page 1 of 5

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BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
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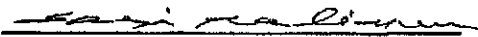
Earth Consulting Group
Madison, MS
Attention: C. Thomas


October 22, 2003
Project No.: 3-3383

Eight cassette samples were received October 3, 2003. The samples were analyzed for Coal Tar Volatiles by OSHA Method 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev, Ph.D., CHCM
Laboratory Director

ddk

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group
Madison, MS
Attention: C. Thomas

October 22, 2003
Project No.: 3-3383

Entek Sample ID: 03-15561

Sample ID: 92301

Sample Date: 9/23-25/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	155.952	155.983	3.0	1.5	0.062	900.00	0.07

Entek Sample ID: 03-15562

Sample ID: 92302

Sample Date: 9/23-25/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	155.369	155.387	3.0	1.5	0.036	900.00	0.04

Entek Sample ID: 03-15563

Sample ID: 92303 Blank

Sample Date: 9/23-25/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	155.189	155.196	3.0	1.5	0.014	-	-

Entek Sample ID: 03-15564

Sample ID: 92401

Sample Date: 9/23-25/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.737	156.751	3.0	1.5	0.028	1080.00	0.03

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BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group
Madison, MS
Attention: C. Thomas

October 22, 2003
Project No.: 3-3383

Entek Sample ID: 03-15565

Sample ID: 92402

Sample Date: 9/23-25/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	154.617	154.632	3.0	1.5	0.030	1080.00	0.03

Entek Sample ID: 03-15566

Sample ID: 92501

Sample Date: 9/23-25/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	155.973	155.986	3.0	1.5	0.026	1140.00	0.02

Entek Sample ID: 03-15567

Sample ID: 92502

Sample Date: 9/23-25/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	154.941	154.952	3.0	1.5	0.022	1140.00	0.02

Entek Sample ID: 03-15568

Sample ID: 92503

Sample Date: 9/23-25/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.595	156.603	3.0	1.5	0.016	-	-

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ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2786
Email: enteklabs@att.net



Earth Consulting Group
Madison, MS
Attention: C. Thomas

October 22, 2003
Project No.: 3-3383

	Quality Control		
	Method Number	Quant. Limit (mg)	QA/QC
BSF*	OSHA 58	0.01	199.45/200.0
	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	199.446	199.45	0.002

DTA Start 10/16/03 0900 AJ
DTA Finish 10/20/03 1500 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

CHAIN OF CUSTODY RECORD

COMPANY:

Earth Consulting Group
P.O. Box 1746
Madison, MS 39120

ENTEK PROJECT NUMBER:

3ECG3383

TURNAROUND TIME:

(Circle one)
Reg / Rush

NEED BY DATE:

ATTN: C. Thomas
 PHONE: 601-853-2134
 FAX: 601-856-3978
 P.O.# S149.001

~Sampler Must Complete~

Sampler's Name:	<u>Matthew Country</u>
Number of Sample(s):	<u>(8)</u>
Date/Time Sampled:	<u>9/23 9/24 9/25/03</u>
Number & Type of Containers:	<u>8 cassette filters</u>
Matrix:	<u>cassette</u>
Transporting Cooler Temperature:	<u>Room Temp</u>

SAMPLE LOCATION:

Kerr-Megee
Hattiesburg, MS

<u>92301</u>			<u>Method #58</u>
<u>92302</u>			
<u>92303 BLANK</u>			
<u>92401</u>			
<u>92402</u>			
<u>92501</u>			
<u>92502</u>			
<u>92503 BLANK</u>			

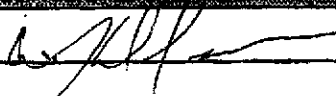
SPECIAL INSTRUCTIONS:

**Acceptable headspace criteria for VOC samples Yes ___ No ___

CHAIN OF POSSESSION:

SAMPLE TEMPERATURE AT SAMPLE RECEIPT:

Room Temp.

	<u>Kristen N. Stevens-Entek</u>	<u>10-03-03</u>
	<u>Acid Fed Ex.</u>	<u>1030</u>

EARTH CONSULTING GROUP, INC.
AIR SAMPLING FIELD DATA SHEET

3ECG3383

Client	Singley Construction	
City	Hattiesburg, MS	Location: Kerr
EarthCon Project #	61492001	Area: Florence + Scooba St.
Contractor	Singley Construction	Removal Type: Dig
Collected By	Kevin Eusey WMM	Date: 9/23/03

FIELD SAMPLE IDENTIFICATION

Sample #	Sample Location	Sample Ty
92301	Ditch Florence + Scooba Street	Air
92302	" " + " " West	Air
92303	BLANK	ATAC

SAMPLING AND ANALYTICAL DATA

Sample #	01	02	03	04			
Begin Time	7:30AM	7:30AM	B				
End Time	3:00PM	3:00PM	L				
Down Time (min)			A				
Total Time (min)	450	450	N				
Flow Rate (L/min)	2.0	2.0	K				
Total Volume (L)	900	900					
Fibers Counted							
Fields Counted							
Fiber Conc.(fibers/cm3)							
Detection Limit(fibers/cm3)							
Time Weighted Average							
8 Hour TWA							
QC Fibers Counted							

Analyses Conducted in Accordance with NIOSH Method 7400

Analyst/Date

EARTH CONSULTING GROUP, INC.
AIR SAMPLING FIELD DATA SHEET

3ECG3383

Client	Single Construction	
City	Hickoryburg MS	Location: Kerr Magee
EarthCon Project #	5149.001	Area: Florence & Scooba St
Contractor	Single Construction	Removal Type: Dig
Collected By	Matthew Courtney	Date: 9/24/03

FIELD SAMPLE IDENTIFICATION

Sample #	Sample Location	Sample Ty
92401	Florence & Scooba Street (Ditch)	Air
92402	" " " " west	Air

SAMPLING AND ANALYTICAL DATA

Sample #	01	02	03	04			
Begin Time	8:00AM	8:00AM					
End Time	8:00PM	8:00PM					
Down Time (min)	-	-					
Total Time (min)	540	540					
Flow Rate (L/min)	2.0	2.0					
Total Volume (L)	1080	1080					
Fibers Counted							
Fields Counted							
Fiber Conc.(fibers/cm3)							
Detection Limit(fibers/cm3)							
Time Weighted Average							
8 Hour TWA							
QC Fibers Counted							

Analyses Conducted in Accordance with NIOSH Method 7400

Analyst/Date

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
KERR - McGEE / HATTIESBURG, MS SAMPLES
COAL TAR VOLATILE ANALYSES
Samples Received: 11/05/03**

FOR

**EARTH CONSULTING GROUP
POST OFFICE BOX 1246
MADISON, MS 39130**

ATTENTION: W. HAL MOORE

**DECEMBER 3, 2003
PROJECT NO.: 3-3698**

Page 1 of 6

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ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group
Madison, MS
Attention: W. Hal Moore

December 3, 2003
Project No.: 3-3698

Thirteen cassette samples were received November 5, 2003. The samples were analyzed for Coal Tar Volatiles by OSHA Method 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:

A handwritten signature in black ink, appearing to read 'Sayi Malineni', written over a horizontal line.

Sayi Malineni
QA Coordinator

A handwritten signature in black ink, appearing to read 'Sham L. Sachdev', written over a horizontal line.

Sham L. Sachdev, Ph.D., CHCM
Laboratory Director

ddk

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14285 AIRLINE HIGHWAY
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Email: enteklabs@att.net



Earth Consulting Group
Madison, MS
Attention: W. Hal Moore

December 3, 2003
Project No.: 3-3698

Entek Sample ID: 03-17284

Sample ID: 102901

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	160.233	160.233	3.0	1.5	<0.010	1080	<0.009

Entek Sample ID: 03-17285

Sample ID: 102902

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.520	156.520	3.0	1.5	<0.010	1080	<0.009

Entek Sample ID: 03-17286

Sample ID: 102903

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.165	156.173	3.0	1.5	0.016	1080	0.015

Entek Sample ID: 03-17287

Sample ID: 102904

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	155.578	155.579	3.0	1.5	<0.010	1080	<0.009

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PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group
Madison, MS
Attention: W. Hal Moore

December 3, 2003
Project No.: 3-3698

Entek Sample ID: 03-17288

Sample ID: 103001

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	155.395	155.412	3.0	1.5	0.034	1080	0.031

Entek Sample ID: 03-17289

Sample ID: 103002

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.932	156.939	3.0	1.5	0.014	1080	0.013

Entek Sample ID: 03-17290

Sample ID: 103003

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	154.811	154.820	3.0	1.5	0.018	1080	0.017

Entek Sample ID: 03-17291

Sample ID: 103004

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.230	156.251	3.0	1.5	0.042	1080	0.039

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PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group
Madison, MS
Attention: W. Hal Moore

December 3, 2003
Project No.: 3-3698

Entek Sample ID: 03-17292

Sample ID: 103005

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	155.074	155.075	3.0	1.5	<0.010	-	-

Entek Sample ID: 03-17293

Sample ID: 103101

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.810	156.819	3.0	1.5	0.018	1080	0.017

Entek Sample ID: 03-17294

Sample ID: 103102

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.015	156.021	3.0	1.5	0.012	1080	0.011

Entek Sample ID: 03-17295

Sample ID: 103103

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.407	156.413	3.0	1.5	0.012	1080	0.011

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ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group
Madison, MS
Attention: W. Hal Moore

December 3, 2003
Project No.: 3-3698

Entek Sample ID: 03-17296

Sample ID: 103104

Sample Date: 10/29-31/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	160.233	160.239	3.0	1.5	0.012	1080	0.011

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC
BSF*	OSHA 58	0.01	199.68/200.0

	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	199.679	199.675	0.002

DTA Start 11/18/03 1200 AJ
DTA Finish 11/24/03 1200 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

CHAIN OF CUSTODY RECORD

COMPANY:

Earth Consulting Group
P.O. Box 1246
Madison, MS 39130

ENTEK PROJECT NUMBER:

3ECG 3698

TURNAROUND TIME:
 NEED BY DATE:

(circle one)
Reg. / Rush

ATTN: W. Hal Moore
 PHONE: 601-853-2134
 FAX: 601-856-3478
 P.O.# SN9.001

~Sampler Must Complete~

Sampler's Name: <u>Matthew Courtney</u>
Number of Sample(s): <u>13</u>
Date/Time Sampled: <u>10/29 10/30 10/31/03</u>
Number & Type of Containers:
Matrix:
Transporting Cooler Temperature:

SAMPLE LOCATION:

Hattiesburg, MS

<u>102901</u>			<u>OSHA 58</u>
<u>102902</u>			<u>Coal Tar Volatile</u>
<u>102903</u>			<u>Air</u>
<u>102904</u>			
<u>103001</u>			
<u>103002</u>			
<u>103003</u>			
<u>103004</u>			
<u>103005</u>	<u>QAQC</u>	<u>BLANK</u>	
<u>103101</u>			
<u>103102</u>			
<u>103103</u>			
<u>103104</u>			

SPECIAL INSTRUCTIONS:

**Acceptable headspace criteria for VOC samples Yes ___ No ___

CHAIN OF POSSESSION:

SAMPLE TEMPERATURE AT SAMPLE RECEIPT:

<u>W. Hal Moore</u>	<u>Kristen A. Stevens-Entek</u>	<u>11-05-03 e</u>
		<u>1000</u>

EARTH CONSULTING GROUP, INC.
AIR SAMPLING FIELD DATA SHEET

Client	Singla - Kerr McGee	
City	H ^W Lewis	Location: Hattiesburg, MS
EarthCon Project #	S149.001	Area: Ditch
Contractor	Singla	Removal Type: Excavation
Collected By	mc	Date: 10/29/03

FIELD SAMPLE IDENTIFICATION

Sample #	Sample Location	Sample Type
102901	N of MLK, E side of ditch	Air
102902	S of MLK, E side of ditch	
102903	S of MLK, W side of ditch	
102904	N of MLK, W side of ditch	

SAMPLING AND ANALYTICAL DATA

Sample #	01	02	03	04			
Begin Time	0800	0800	0800	0800			
End Time	1700	1700	1700	1700			
Down Time (min)	-	-	-	-			
Total Time (min)	540	540	540	540			
Flow Rate (L/min)	2	2	2	2			
Total Volume (L)	1080	1080	1080	1080			
Fibers Counted							
Fields Counted							
Fiber Conc. (fibers/cm ³)							
Detection Limit (fibers/cm ³)							
Time Weighted Average							
8 Hour TWA							
QC Fibers Counted							

Analyses Conducted in Accordance with NIOSH Method 7400

Analyst/Date

EARTH CONSULTING GROUP, INC.
AIR SAMPLING FIELD DATA SHEET

Client	SINGLEY/KERR MCGEE	
City	HATTIESBURG MS	Location: MLK AVE
EarthCon Project #	S149.001	Area:
Contractor	SINGLEY	Removal Type: DIG
Collected By	KTI	Date: 10/30/03

FIELD SAMPLE IDENTIFICATION

Sample #	Sample Location	Sample Type
103001	NORTHEAST CORNER OF DIG AREA	✓ Fresh
103002	SOUTH EAST CORNER "	✓
103003	SOUTHWEST CORNER "	"
103004	NORTHWEST CORNER "	"
103005	BLAVIL	QABC

SAMPLING AND ANALYTICAL DATA

Sample #	01	02	03	04			
Begin Time	0800	0800	0800	0800			
End Time	1700	1700	1700	1700			
Down Time (min)							
Total Time (min)	540	540	540	540			
Flow Rate (L/min)	2.0	2.0	2.0	2.0			
Total Volume (L)	1080	1080	1080	1080			
Fibers Counted							
Fields Counted							
Fiber Conc.(fibers/cm3)							
Detection Limit(fibers/cm3)							
Time Weighted Average							
8 Hour TWA							
QC Fibers Counted							

Analyses Conducted in Accordance with NIOSH Method 7400

Analyst/Date

EARTH CONSULTING GROUP, INC.
AIR SAMPLING FIELD DATA SHEET

Client	Singley/Kerr McGee	
City	Waltham, MA	Location: MLK AVE
EarthCon Project #	S149.001	Area: Ditch
Contractor	Singley	Removal Type: Excavation
Collected By	MFC	Date: 10/21/03

FIELD SAMPLE IDENTIFICATION

Sample #	Sample Location	Sample Type
103101	N.E. corner of Dig Area	Area
103102	S.E. corner of Dig Area	
103103	S.W. corner of Dig Area	
103104	N.W. corner of Dig Area	

SAMPLING AND ANALYTICAL DATA

Sample #	01	02	03	04			
Begin Time	0800	0800	0800	0800			
End Time	1700	1700	1700	1700			
Down Time (min)							
Total Time (min)	540	540	540	540			
Flow Rate (L/min)	2.0	2.0	2.0	2.0			
Total Volume (L)	1080	1080	1080	1080			
Fibers Counted							
Fields Counted							
Fiber Conc.(fibers/cm3)							
Detection Limit(fibers/cm3)							
Time Weighted Average							
8 Hour TWA							
QC Fibers Counted							

Analyses Conducted in Accordance with NIOSH Method 7400

* All pump locations are carbon-cops of 10/30/03 & 10/29/03.

Analyst/Date

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
KERR - McGEE / HATTIESBURG, MS SAMPLES
COAL TAR VOLATILE ANALYSES
Samples Received: 11/24/03**

FOR

**EARTH CONSULTING GROUP
POST OFFICE BOX 1246
MADISON, MS 39130**

ATTENTION: W. HAL MOORE

**DECEMBER 12, 2003
PROJECT NO.: 3-3885**

Page 1 of 4

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ENVIRONMENTAL LABORATORIES, INC.
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Earth Consulting Group
Madison, MS
Attention: W. Hal Moore


December 12, 2003
Project No.: 3-3885

Five cassette samples were received November 24, 2003. The samples were analyzed for Coal Tar Volatiles by OSHA Method 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev, Ph.D., CHCM
Laboratory Director

ddk

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group
Madison, MS
Attention: W. Hal Moore

December 12, 2003
Project No.: 3-3885

Entek Sample ID: 03-18136

Sample ID: 110301

Sample Date: 11/03/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.169	156.169	3.0	1.5	<0.010	1080	<0.009

Entek Sample ID: 03-18137

Sample ID: 110302

Sample Date: 11/03/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	155.590	155.593	3.0	1.5	<0.010	1080	<0.009

Entek Sample ID: 03-18138

Sample ID: 110303

Sample Date: 11/03/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	155.360	155.366	3.0	1.5	0.012	1080	0.011

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group
Madison, MS
Attention: W. Hal Moore

December 12, 2003
Project No.: 3-3885

Entek Sample ID: 03-18139

Sample ID: 110304

Sample Date: 11/03/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	156.903	156.915	3.0	1.5	0.024	1080	0.022

Entek Sample ID: 03-18140

Sample ID: 110305

Sample Date: 11/03/03

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	154.783	154.782	3.0	1.5	<0.010	-	-

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC
BSF*	OSHA 58	0.01	199.67/200.00
	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	199.672	199.683	0.006

DTA Start 12/02/03 1000 JK

DTA Finish 12/05/03 1200 JK

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

CHAIN OF CUSTODY RECORD

COMPANY:

Earth Consulting Group
P.O. Box 1246
Madison, MS 39130

ENTEK PROJECT NUMBER:

3ECG3885

(circle one)

TURNAROUND TIME:

Reg. / Rush

NEED BY DATE:

ATTN: W. Hel Moore
 PHONE: 601-853-2134
 FAX: 601-856-3478
 P.O.# SN9.001

-Sampler Must Complete-

Sampler's Name:	<u>Matthew Courtney</u>
Number of Sample(s):	<u>5</u>
Date/Time Sampled:	<u>11/3/03</u>
Number & Type of Containers:	<u>5</u>
Matrix:	<u>air cassette</u>
Transporting Cooler Temperature:	<u>n/a</u>

SAMPLE LOCATION:

Hattiesburg, MS

Sample ID	Date/Time	Location	Remarks
<u>110301</u>			<u>OSHA 58</u>
<u>110302</u>			<u>Coal Tar - Volatile</u>
<u>110303</u>			<u>Air</u>
<u>110304</u>			
<u>110305</u>		<u>BLANK</u>	<u>QA/QC</u>

SPECIAL INSTRUCTIONS:

**Acceptable headspace criteria for VOC samples Yes ___ No ___

CHAIN OF POSSESSION:

SAMPLE TEMPERATURE AT SAMPLE RECEIPT: n/a

<u>W. Hel Moore</u>	<u>Matthew Courtney</u>	<u>11/24/03 1030</u>

P 192

AIR SAMPLING FIELD DATA SHEET

3ECG3885

Client	Singley - Kew-Mc-Cree	
City	Hatfield	Location: MCK Ave
EarthCon Project #	5149.001	Area:
Contractor	Singley	Removal Type: Excavation
Collected By	MFC	Date: 11/3/03

FIELD SAMPLE IDENTIFICATION

Sample #	Sample Location	Sample Type
110301	Same as 10/31/03 no. N.E. Corner of Dig Area	
110302	" S.E. Corner of Dig Area	
110303	" S.W. Corner of Dig Area	
110304	" N.W. Corner of Dig Area	
110305	BLANK	QA-QC

SAMPLING AND ANALYTICAL DATA

Sample #	01	02	03	04	05		
Begin Time	0800	0800	0800	0800	h		
End Time	1700	1700	1700	1700	L		
Down Time (min)					A		
Total Time (min)	540	540	540	540	N		
Flow Rate (L/min)	2	2	2	2	11		
Total Volume (L)	1080	1080	1080	1080			
Fibers Counted							
Fields Counted							
Fiber Conc. (fibers/cm ³)							
Detection Limit (fibers/cm ³)							
Time Weighted Average							
8 Hour TWA							
QC Fibers Counted							

Analysis Conducted in Accordance with NIOSH Method 7400

* All pump locations same as 10/31/03

Analyst/Date

PZJ



July 24, 2007

Mr. Corey Milton, Project Manager
Singley Environmental & Remediation Services, Inc.
Post Office Box 389
Columbia, Mississippi 39429

Re: EarthCon Project No. S149.006
Air Quality Monitoring
Excavation of Creosote-Contaminated Soil
Former Kerr McGee Site
Hattiesburg, Mississippi

Dear Mr. Milton:

Earth Consulting Group, Inc. (EarthCon) performed Air Quality Monitoring during the excavation of creosote-contaminated soil from the former Kerr McGee site in Hattiesburg, Mississippi beginning May 31, 2007 and ending on June 25, 2007. Project oversight services included monitoring of total volatile organic concentrations at the active excavation site with a Flame Ionization Detector (FID); point-of-compliance monitoring of Coal Tar Pitch Volatiles for the duration of excavation activities; and preparation of a summary report of the monitoring activities, data, and observations.

Field Activities

Excavation activities performed by Singley Environmental & Remediation Services, Inc. (Singley) beginning on May 31, 2007 and ending on June 25, 2007, were focused at the East Scooba Street location. Mr. Timothy Carter, Staff Scientist, performed the field air quality monitoring and testing during the excavation activities. A Detecto-Pak 4 FID was utilized for field measurements of total volatile organic vapor concentrations in the air surrounding the active excavation area. The FID was calibrated to a 100 parts-per-million (ppm) Methane calibration standard prior to field monitoring activities. The perimeter of the excavation area was scanned for total volatile organic vapor concentrations at approximate 30-minute intervals, with the highest reading recorded for each perimeter check.


Mr. Corey Milton
Former Kerr-McGee Site
Page 2 of 2

The field data is presented in Appendix A – Field Data Sheet. Two (2) stand-mounted vacuum pumps, calibrated to 2.0 liters-per-minute of air flow, were deployed at the upwind and downwind point of compliance to collect cassette-filtered samples over the duration of the excavation activities. The OSHA Method 58 cassette sample filters were removed from the cassettes at the conclusion of sampling, placed in preserved vials, preserved on ice, and transported to the Entek Environmental Laboratories, Inc. located in Baton Rouge, Louisiana for analysis. The cassettes were analyzed for the benzene soluble fraction of Coal Tar Pitch Volatiles by OSHA Method 58. The analytical results are presented in Appendix B – Laboratory Analytical Data.

Observations and Conclusions

The field sampling and laboratory analytical data collected by EarthCon during the excavation monitoring activities at the former Kerr McGee site in Hattiesburg, Mississippi on May 31, 2007 through June 25, 2007 indicated that volatile organic vapor concentrations ranged from zero (0) to four (4) ppm in the work areas. Benzene soluble Coal Tar Pitch Volatile concentrations in air ranged from 0.007 mg/m³ in the upwind sample on June 13, 2007, to 0.193 mg/m³ in the downwind sample on June 6, 2007. All results are indicated as below the 0.20 mg/m³ permissible exposure limit for the benzene soluble fraction in the sample report. If you have any questions concerning the contents of this report, please contact us, toll free, at (877) 389-6476.

Sincerely,
Earth Consulting Group, Inc.



Timothy D. Carter
Staff Scientist

Attachments

Air Monitoring Data Summary
Singley Environmental Services, Inc.
Former Kerr McGee Site
Hattiesburg, Mississippi
June 28, 2007

Date	Time	Maximum FID Reading (ppm)	Prevailing Wind Condition	Field Sampling Location	Notes
5/31/2007	8:00	N/A	Southerly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	8:30	0	"	Excavating drainage ditch adjacent East Scooba Street	Excavating north end of contaminated ditch
	9:30	1	"	"	"
	10:00	0	"	"	Break
	10:30	0	"	"	Excavation resumed
	11:00	0	"	"	"
	11:30	0	Variable Wind	"	"
	12:00	0	"	"	"
	12:30	0	"	"	"
	13:00	0	"	"	Excavating - ditch approximately 30 feet long
	13:30	0	"	"	Break
	14:00	0	"	"	Excavation resumed
	14:30	0	"	"	Excavation and backfilling
	15:00	0	"	"	"
15:30	0	"	"	Break	
16:00	0	"	"	Excavation Stopped	
6/1/2007	7:00	N/A	Easterly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	7:30	1	"	Excavating drainage ditch adjacent East Scooba Street	Excavating contaminated drainage ditch
	8:00	1	"	"	"
	8:30	2	"	"	"
	9:30	0	"	"	"
	10:00	0	"	"	Break
	10:30	0	"	"	Excavation resumed
	11:00	0	"	"	Vacuum operations stopped
	11:30	0	Variable Wind	"	Excavation resumed
	12:00	0	"	"	"
	12:30	0	"	"	"
	13:00	0	"	"	"
	13:30	0	"	"	"
	14:00	0	"	"	"
14:30	0	"	"	"	
15:00	0	"	"	Excavation Stopped	
6/6/2007	7:00	N/A	Southerly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	7:30	0	"	Excavating drainage ditch adjacent East Scooba Street	Excavating north end of contaminated ditch
	8:00	0	"	"	"
	8:30	0	"	"	"
	9:30	0	"	"	Break
	10:00	0	"	"	"
	10:30	4	"	"	Excavation resumed
	11:00	4	"	"	"
	11:30	3	Variable Wind	"	"
	12:00	0	"	"	Excavation and backfilling
	12:30	0	"	"	"
	13:00	0	"	"	"
	13:30	0	"	"	"
	14:00	0	"	"	"
	14:30	0	"	"	"
	15:00	0	"	"	"
	15:30	0	"	"	"
16:00	0	"	"	"	
16:30	0	"	"	"	
17:00	0	"	"	Excavation Stopped	

Air Monitoring Data Summary (continued)
Singley Environmental Services, Inc.
Former Kerr McGee Site
Hattiesburg, Mississippi
May 31, 2007 through June 25, 2007

Date	Time	Maximum FID Reading (ppm)	Prevailing Wind Condition	Field Sampling Location	Notes
6/7/2007	9:00	N/A	Westerly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	9:30	0	"	Excavating drainage ditch adjacent East Scooba Street	Excavating north end of contaminated ditch
	10:00	0	"	"	"
	10:30	1	"	"	"
	11:00	0	"	"	Break
	11:30	0	Variable Wind	"	"
	12:00	0	"	"	Excavation and backfilling
	12:30	0	"	"	"
	13:00	0	"	"	"
	13:30	1	"	"	"
	14:00	0	"	"	"
	14:30	1	"	"	"
	15:00	0	"	"	"
	15:30	0	"	"	"
16:00	0	"	"	Excavation Stopped	
6/8/2007	8:00	N/A	Southerly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	9:30	0	"	Excavating drainage ditch adjacent to East Scooba Street	Excavating north end of contaminated ditch
	10:00	0	"	"	"
	10:30	0	"	"	Excavation and backfilling
	11:00	0	"	"	"
	11:30	0	Variable Wind	"	Break
	12:00	0	"	"	"
	12:30	1	"	"	"
13:00	0	"	"	Excavation Stopped	
6/11/2007	7:30	N/A	Easterly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	8:00	0	"	Excavating drainage ditch adjacent to East Scooba Street	Excavating north end of contaminated ditch
	8:30	0	"	"	"
	9:30	0	"	"	Break
	10:00	0	"	"	"
	10:30	0	"	"	Excavation resumed
	11:00	0	"	"	"
	11:30	1	Variable Wind	"	Break
	12:00	0	"	"	Excavation and backfilling
	12:30	0	"	"	"
	13:00	0	"	"	"
	13:30	1	"	"	"
	14:00	0	"	"	"
	14:30	0	"	"	"
	15:00	1	"	"	"
	15:30	0	"	"	"
	16:00	0	"	"	"
16:30	0	"	"	"	
17:00	0	"	"	Excavation Stopped	
6/12/2007	7:30	N/A	Easterly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	8:00	0	"	Excavating drainage ditch adjacent to East Scooba Street	Excavating north end of contaminated ditch
	8:30	1	"	"	"
	9:30	1	"	"	"
	10:00	0	"	"	"
	10:30	0	"	"	"
	11:00	0	"	"	"
	11:30	0	Variable Wind	"	Break
	12:00	0	"	"	Excavation and backfilling
	12:30	0	"	"	"
	13:00	1	"	"	"
	13:30	0	"	"	"
	14:00	0	"	"	"
	14:30	1	"	"	"
	15:00	0	"	"	"
	15:30	0	"	"	"
16:00	0	"	"	Excavation Stopped	

Air Monitoring Data Summary (continued)
Singley Environmental Services, Inc.
Former Kerr McGee Site
Hattiesburg, Mississippi
May 31, 2007 through June 25, 2007

Date	Time	Maximum FID Reading (ppm)	Prevailing Wind Condition	Field Sampling Location	Notes
6/13/2007	7:30	N/A	Southerly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	8:00	0	"	Excavating drainage ditch adjacent to East Scooba Street	Excavating north end of contaminated ditch
	8:30	1	"	"	"
	9:30	0	"	"	"
	10:00	0	"	"	"
	10:30	0	"	"	"
	11:00	0	"	"	"
	11:30	0	Northerly Wind	"	Break
	12:00	0	"	"	Excavation and backfilling
	12:30	0	"	"	"
	13:00	0	"	"	"
	13:30	0	"	"	"
	14:00	0	"	"	"
	14:30	1	"	"	"
	15:00	0	"	"	"
	15:30	0	"	"	"
16:00	0	"	"	"	
16:30	1	"	"	Excavation Stopped	
6/14/2007	7:30	N/A	Southerly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	8:00	0	"	Excavating drainage ditch adjacent to East Scooba Street	Excavating south end of contaminated ditch
	8:30	1	"	"	"
	9:30	0	"	"	"
	10:00	0	"	"	"
	10:30	0	"	"	"
	11:00	0	"	"	"
	11:30	0	Northerly Wind	"	Break
	12:00	0	"	"	Excavation and backfilling
	12:30	0	"	"	"
	13:00	0	"	"	"
	13:30	0	"	"	"
	14:00	0	"	"	"
	14:30	1	"	"	"
	15:00	0	"	"	"
	15:30	0	"	"	"
16:00	0	"	"	"	
16:30	1	"	"	"	
17:00	1	"	"	Excavation Stopped	
6/15/2007	7:30	N/A	Southerly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	8:00	0	"	Excavating drainage ditch adjacent to East Scooba Street	Excavating south end of contaminated ditch
	9:30	0	"	"	"
	10:00	0	"	"	"
	10:30	0	"	"	Excavation and backfilling
	11:00	0	"	"	"
	11:30	0	Variable Wind	"	Break
	12:00	0	"	"	"
12:30	1	"	"	"	
13:00	0	"	"	Excavation Stopped	
6/18/2007	8:30	N/A	Variable Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	9:00	1	"	Excavating drainage ditch adjacent to Timothy Lane	Excavating south end of contaminated ditch
	9:30	1	"	"	"
	10:00	1	"	"	"
	10:30	0	"	"	"
	11:00	0	"	"	"
	11:30	1	"	"	Break
	12:00	1	"	"	Excavation and backfilling
	12:30	0	"	"	"
	13:00	0	"	"	"
13:30	0	"	"	"	
14:00	0	"	"	Excavation Stopped	

Air Monitoring Data Summary (continued)
Singley Environmental Services, Inc.
Former Kerr McGee Site
Hattiesburg, Mississippi
May 31, 2007 through June 25, 2007

Date	Time	Maximum FID Reading (ppm)	Prevailing Wind Condition	Field Sampling Location	Notes
6/21/2007	8:30	N/A	Easterly Wind	N/A	Detecto-Pak 4 FID Calibrated at 100ppm Methane, pumps calibrated at 2.0 L/min
	9:00	0	"	Excavating drainage ditch adjacent to Timothy Lane	Excavating south end of contaminated ditch
	9:30	0	"	"	"
	10:00	0	"	"	"
	10:30	0	"	"	"
	11:00	0	"	"	"
	11:30	0	"	"	Break
	12:00	1	Variable Wind	"	Excavation and backfilling
	12:30	0	"	"	"
	13:00	1	"	"	"
	13:30	0	"	"	"
	14:00	0	"	"	Excavation Stopped
	6/25/2007	7:00	N/A	Easterly Wind	N/A
7:30		1	"	Excavating drainage ditch along East Scooba Street	Excavating contaminated drainage ditch
8:00		1	"	"	"
8:30		2	"	"	"
9:30		0	"	"	"
10:00		0	"	"	Break
10:30		0	"	"	Excavation resumed
11:00		0	"	"	Vacuum operations stopped
11:30		0	Variable Wind	"	Excavation resumed
12:00		0	"	"	"
12:30		0	"	"	"
13:00		0	"	"	"
13:30		0	"	"	"
14:00		0	"	"	"
14:30		0	"	"	"
15:00	0	"	"	Excavation Stopped	

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/05/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 2, 2007
PROJECT NO.: IH7-0137**

Page 1 of 4

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0137
Report Date: 07/02/07
Date Received: 06/05/07
P.O. No.: S149.006

Sample Location: Former Kerr McGee Site, Hattiesburg, MS

Four industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:

A handwritten signature in cursive script, appearing to read 'Sayi Malineni'.

Sayi Malineni
QA Coordinator

A handwritten signature in cursive script, appearing to read 'Sham L. Sachdev'.

Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0137
Report Date: 07/02/07
Date Rec'd: 06/05/07
P.O. No.: S149.006

Entek Sample ID: 07-06843
Sample ID: 06-01-07-01
Sample Date: 06/01/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	0.098	0.137	3.0	1.5	0.078	928	0.084

Entek Sample ID: 07-06844
Sample ID: 06-01-07-02
Sample Date: 06/01/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	3.727	3.772	3.0	1.5	0.090	928	0.097

Entek Sample ID: 07-06845
Sample ID: 05-31-07-01
Sample Date: 05/31/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.026	0.023	3.0	1.5	0.098	980	0.100

Entek Sample ID: 07-06846
Sample ID: 05-31-07-02
Sample Date: 05/31/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.422	-0.396	3.0	1.5	0.052	980	0.053

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0137
Report Date: 07/02/07
Date Rec'd: 06/05/07
P.O. No.: S149.006

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00
	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 06/19/07 AJ
DTA Finish 06/22/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

CHAIN OF CUSTODY RECORD

COMPANY:

Earth Consulting Group, Inc.
110 Weisenberger Road
Madison, MS 39110

ENTEK PROJECT NUMBER:

1H7ECG0137

(circle one)

TURNAROUND TIME:

Reg / Rush

NEED BY DATE:

ATTN: Tim Carter
 PHONE: (601) 853-2134
 FAX: (601) 856-3978
 P.O.# 5149.006

~Sampler Must Complete~

Sampler's Name: <u>Tim Carter</u>
Number of Sample(s): <u>4</u>
Date/Time Sampled: <u>May 31 & June 1 2007</u>
Number & Type of Containers: <u>4 Cassettes</u>
Matrix: <u>Air</u>
Transporting Cooler Temperature:

SAMPLE LOCATION:

Former Kern Mcgee Site
Hattiesburg, MS

SAMPLE IDENTIFICATION	PRSTD Y. I. N.	SAMPLE NOTES ACCEPTABLE CONTAINER, PACKING, ETC.	ANALYSES REQUESTED	STORAGE
<u>06-01-07-01</u>			<u>OSHA 58</u>	
<u>06-01-07-02</u>			<u>OSHA 58</u>	
<u>05-31-07-01</u>				
<u>05-31-07-02</u>				
<u>Sample Rate</u>		<u>2.0 L per minute</u>		

SPECIAL INSTRUCTIONS:

**Acceptable headspace criteria for VOC samples Yes ___ No ___

CHAIN OF POSSESSION:

SAMPLE TEMPERATURE AT SAMPLE RECEIPT:

RELINQUISHED BY:	RECEIVED BY:	DATE/TIME
<u>Tim Carter 6-4-07</u>		
<u>Fedex</u>	<u>Jackie Valdez</u>	<u>06/05/07 1051</u>

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/07/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 2, 2007
PROJECT NO.: IH7-0147**

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0147
Report Date: 07/02/07
Date Received: 06/07/07
P.O. No.: S149.006


Sample Location: Former Kerr McGee Site, Hattiesburg, MS

Two industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0147
Report Date: 07/02/07
Date Rec'd: 06/07/07
P.O. No.: S149.006

Entek Sample ID: 07-06988
Sample ID: 06-06-07-01
Sample Date: 06/06/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	0.361	0.471	3.0	1.5	0.220	1140	0.193

Entek Sample ID: 07-06989
Sample ID: 06-06-07-02
Sample Date: 06/06/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-1.182	-1.082	3.0	1.5	0.200	1140	0.175

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00
	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 06/19/07 AJ
DTA Finish 06/22/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/08/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 2, 2007
PROJECT NO.: IH7-0148**

Page 1 of 3

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0148
Report Date: 07/02/07
Date Received: 06/08/07
P.O. No.: S149.006

Sample Location: Former Kerr McGee Site, Scooba Street, Hattiesburg, MS

Two industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:

A handwritten signature in cursive script, appearing to read 'Sayi Malineni', written over a horizontal line.

Sayi Malineni
QA Coordinator

A handwritten signature in cursive script, appearing to read 'Sham L. Sachdev', written over a horizontal line.

Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0148
Report Date: 07/02/07
Date Rec'd: 06/08/07
P.O. No.: S149.006

Entek Sample ID: 07-07015
Sample ID: 06-07-07-01
Sample Date: 06/07/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.202	-0.142	3.0	1.5	0.120	824	0.146

Entek Sample ID: 07-07016
Sample ID: 06-07-07-02
Sample Date: 06/07/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-1.512	-1.473	3.0	1.5	0.078	824	0.095

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00

	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 06/19/07 AJ
DTA Finish 06/22/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

CHAIN OF CUSTODY RECORD

COMPANY:

Earth Consulting Group, Inc.
110 Weisenberger Rd.
Madison, MS 39110

ENTEK PROJECT NUMBER:

1H7ECG0148

(circle one)

TURNAROUND TIME:

Reg. / Rush

NEED BY DATE:

ATTN: Tim Carter
 PHONE: (601) 853-2134
 FAX: (601) 856-3978
 P.O.# 5149.006

~Sampler Must Complete~

Sampler's Name: <u>Tim Carter</u>
Number of Sample(s): <u>2</u>
Date/Time Sampled: <u>6-7-07 9am-4pm</u>
Number & Type of Containers: <u>2 Cassettes</u>
Matrix: <u>air</u>
Transporting Cooler Temperature: <u>na</u>

SAMPLE LOCATION:

Scooba St.
Hattiesburg, MS
Former Kerr Meigs Site

SAMPLE IDENTIFICATION	PRSYD Y / N	SAMPLE NOTES ACCEPTABLE CONTAINER, PACKING, ETC.	ANALYSES REQUESTED	STORAGE #
<u>06-07-07-01</u>		<u>2.0L/min</u>	<u>OSHA 58</u>	
<u>06-07-07-02</u>		<u>2.0L/min</u>	<u>OSHA 58</u>	

SPECIAL INSTRUCTIONS:

**Acceptable headspace criteria for VOC samples Yes ___ No ___

CHAIN OF POSSESSION:

SAMPLE TEMPERATURE AT SAMPLE RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE/TIME
<u>Tim Carter 4:35pm</u>	<u>Jackie [Signature]</u>	<u>06/08/07 12:30</u>

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/11/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 2, 2007
PROJECT NO.: IH7-0150**

Page 1 of 3

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter


Project No.: IH7-0150
Report Date: 07/02/07
Date Received: 06/11/07
P.O. No.: S149.006


Sample Location: Former Kerr McGee Site, Hattiesburg, MS

Two industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0150
Report Date: 07/02/07
Date Rec'd: 06/11/07
P.O. No.: S149.006

Entek Sample ID: 07-07176
Sample ID: 06-08-07-01
Sample Date: 06/08/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	0.603	0.621	3.0	1.5	0.036	558	0.065

Entek Sample ID: 07-07016
Sample ID: 06-08-07-02
Sample Date: 06/08/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.924	-0.896	3.0	1.5	0.056	558	0.100

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00
	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 06/19/07 AJ
DTA Finish 06/22/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

CHAIN OF CUSTODY RECORD

COMPANY:

Earth Consulting Group, Inc.
110 Weisenberger Rd.
Madison, MS 39110

ENTEK PROJECT NUMBER:

1H7EC60150

(circle one)

TURNAROUND TIME:

Reg / Rush

NEED BY DATE:

ATTN: Tim Carter

PHONE: (601) 853-2134

FAX: (601) 856-3978

P.O.# 5149.006

~Sampler Must Complete~

Sampler's Name: <u>Tim Carter</u>
Number of Sample(s): <u>2 Cassettes</u>
Date/Time Sampled: <u>6-8-07</u>
Number & Type of Containers: <u>2 Cassettes</u>
Matrix: <u>air</u>
Transporting Cooler Temperature: <u>NA</u>

SAMPLE LOCATION:

Former Kerr Megee Site
Hattiesburg, MS

SAMPLE IDENTIFICATION	PRSRVD Y / N	SAMPLE NOTES ACCEPTABLE CONTAINER, PACKING, ETC.	ANALYSES REQUESTED	STORAGE #
<u>06-08-07-01</u>		<u>2.0L/min</u>	<u>OSHA 58</u>	
<u>06-08-07-02</u>		<u>2.0L/min</u>	<u>OSHA 58</u>	

SPECIAL INSTRUCTIONS:

**Acceptable headspace criteria for VOC samples Yes ___ No ___

CHAIN OF POSSESSION:

SAMPLE TEMPERATURE AT SAMPLE RECEIPT: NA

RELINQUISHED BY	RECEIVED BY	DATE/TIME
<u>Tim Carter 2:00pm</u> <u>(via FedEx)</u>	<u>Jackie Cobby</u>	<u>06/11/07 1028</u>

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/12/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 2, 2007
PROJECT NO.: IH7-0157**

Page 1 of 3

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter


Project No.: IH7-0157
Report Date: 07/02/07
Date Received: 06/12/07
P.O. No.: S149.006

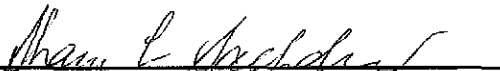
Sample Location: Former Kerr McGee Site, Hattiesburg, MS

Two industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0157
Report Date: 07/02/07
Date Rec'd: 06/12/07
P.O. No.: S149.006

Entek Sample ID: 07-07230
Sample ID: 06-11-07-01
Sample Date: 06/11/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.852	-0.800	3.0	1.5	0.104	1052	0.099

Entek Sample ID: 07-07231
Sample ID: 06-11-07-02
Sample Date: 06/11/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.254	-0.215	3.0	1.5	0.078	1052	0.074

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00

	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 06/19/07 AJ
DTA Finish 06/22/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

ENTEK ENVIRONMENTAL LABORATORIES, INC.

14285 Airline Highway
Baton Rouge, LA 70817
(225) 752-2900

SHIPPING TICKET

Date Shipped: 05/31/07
Invoice No: _____

Tim Carter
Earth Consulting

P.O. No: _____
Notice: 110 Weisenberger Rd
Madison, MS 39110

OFFICE USE ONLY:

QUANTITY ORDERED	DESCRIPTION	UNIT PRICE	AMOUNT
25	4mL vial and 37mm cassettes for OSHA 58	\$5.00	\$125.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
			\$0.00
	SUB-TOTAL		\$125.00
	TAX		
	FREIGHT		
	TOTAL		

TERMS: NET 30 DAYS UPON RECEIPT

Received by: Tim Carter

Date: 6-6-07

CHAIN OF CUSTODY RECORD

COMPANY:

Earth Consulting Group, Inc.
110 Weisenberger Road
Madison, Mississippi 39110

ENTEK PROJECT NUMBER: 1H7ECG015 7

(circle one)

TURNAROUND TIME: Reg. / Rush

NEED BY DATE: _____

ATTN: Tim Carter
 PHONE: (601) 853-2134
 FAX: (601) 856-3978
 P.O.# 5149.006

~Sampler Must Complete~

Sampler's Name: <u>Tim Carter</u>
Number of Sample(s): <u>2</u>
Date/Time Sampled: <u>6-11-07</u>
Number & Type of Containers: <u>2 Cassettes</u>
Matrix: <u>air</u>
Transporting Cooler Temperature: _____

SAMPLE LOCATION:

Former Kern Megee Site
Hattiesburg, MS

SAMPLE IDENTIFICATION	PRESVD Y / N	SAMPLE NOTES ACCEPTABLE CONTAINER, PACKING, ETC.	ANALYSES REQUESTED	STORAGE #
<u>06-11-07-01</u>		<u>2.0L/min</u>	<u>OSHA 58</u>	
<u>06-11-07-02</u>		<u>2.0L/min</u>	<u>OSHA 58</u>	

SPECIAL INSTRUCTIONS:

**Acceptable headspace criteria for VOC samples Yes ___ No ___

CHAIN OF POSSESSION:

SAMPLE TEMPERATURE AT SAMPLE RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE/TIME
<u>Tim Carter 6-11-07</u> <u>5:15 pm</u>	<u>Jakea Veldy</u>	<u>06/12/07 1412</u>

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/13/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 13, 2007
PROJECT NO.: IH7-0159**

Page 1 of 3

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

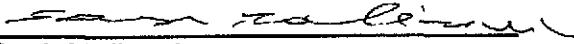
Project No.: IH7-0159
Report Date: 07/13/07
Date Received: 06/13/07
P.O. No.: S149.006


Sample Location: Former Kerr McGee Site, Hattiesburg, MS

Two industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0159
Report Date: 07/13/07
Date Rec'd: 06/13/07
P.O. No.: S149.006

Entek Sample ID: 07-07289
Sample ID: 06-12-07-01
Sample Date: 06/12/07

Parameter	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.012	-0.003	3.0	1.5	0.018	1028	0.018

Entek Sample ID: 07-07290
Sample ID: 06-12-07-02
Sample Date: 06/12/07

Parameter	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.550	-0.530	3.0	1.5	0.040	1028	0.039

Quality Control

Method Number	Quant. Limit (mg)	QA/QC (obs/true)	
BSF*	OSHA 58	0.01	5.014/5.00

	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 07/03/07 AJ
DTA Finish 07/05/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

The initial weight and final weight may be a negative number in cases where the sample crucible weighs less than the reference crucible.

CHAIN OF CUSTODY RECORD

COMPANY:

Earth Consulting Group, Inc.
110 Weisenberger Road
Madison, MS 39110

ENTEK PROJECT NUMBER:

1H7EC60159

(circle one)

TURNAROUND TIME:

Reg / Rush

NEED BY DATE:

ATTN: Tim Carter

PHONE: (601) 951-8124

FAX: (601) 856-3978

P.O.# 5149.006

~Sampler Must Complete~

Sampler's Name: Tim Carter

Number of Sample(s): 2

Date/Time Sampled: 6-12-07

Number & Type of Containers: 2 Cassettes

Matrix: air

Transporting Cooler Temperature: N/A

SAMPLE LOCATION:

Former Kerr Meigs Site
Hattiesburg, MS

SAMPLE IDENTIFICATION	PRESVD Y / N	SAMPLE NOTES		ANALYSES REQUESTED	STORAGE #
		ACCEPTABLE	CONTAINER, PACKING, ETC.		
<u>06-12-07-01</u>		<u>2.0L/min</u>		<u>OSHA 58</u>	
<u>06-12-07-02</u>		<u>2.0L/min</u>		<u>OSHA 58</u>	

SPECIAL INSTRUCTIONS:

**Acceptable headspace criteria for VOC samples Yes ___ No ___

CHAIN OF POSSESSION:

SAMPLE TEMPERATURE AT SAMPLE RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE/TIME
<u>Tim Carter 6-12-07</u> <u>5:05 pm</u>	<u>[Signature]</u>	<u>06/13/07 12:00</u>

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/14/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 13, 2007
PROJECT NO.: IH7-0160**

Page 1 of 3

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ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter


Project No.: IH7-0160
Report Date: 07/13/07
Date Received: 06/14/07
P.O. No.: S149.006

Sample Location: Former Kerr McGee Site, Hattiesburg, MS


Two industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:



Sayi Malineni
QA Coordinator



Sham L. Sachdev Ph. D., CHCM
Laboratory Director
ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0160
Report Date: 07/13/07
Date Rec'd: 06/14/07
P.O. No.: S149.006

Entek Sample ID: 07-07384
Sample ID: 06-13-07-01
Sample Date: 06/13/07

Parameter	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.736	-0.691	3.0	1.5	0.090	1076	0.084

Entek Sample ID: 07-07385
Sample ID: 06-13-07-02
Sample Date: 06/13/07

Parameter	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	0.781	0.785	3.0	1.5	0.008	1076	0.007

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00

	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 07/03/07 AJ
DTA Finish 07/05/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

The initial weight and final weight may be a negative number in cases where the sample crucible weighs less than the reference crucible.

CHAIN OF CUSTODY RECORD

COMPANY:

Earth Consulting Group, Inc.
110 Welsenhenger Rd
Madison, MS 39110

ENTEK PROJECT NUMBER:

1H7ECC0166

(circle one)

TURNAROUND TIME:

Reg / Rush

NEED BY DATE:

ATTN: Tim Carter
 PHONE: (601) 951-8124
 FAX: (601) 856-3978
 P.O.# 5149.006

~Sampler Must Complete~

Sampler's Name: <u>Tim Carter</u>
Number of Sample(s): <u>2</u>
Date/Time Sampled: <u>6-13-07</u>
Number & Type of Containers: <u>2 Cassettes</u>
Matrix: <u>air</u>
Transporting Cooler Temperature: <u>4°C</u>

SAMPLE LOCATION:

Former Kerr McGee Site
Hattiesburg, MS

SAMPLE IDENTIFICATION	PRSRVD Y / N	SAMPLE NOTES ACCEPTABLE CONTAINER, PACKING, ETC.	ANALYSES REQUESTED	STORAGE
<u>06-13-07-01</u>		<u>2.0L/min</u>	<u>OSHA 38</u>	
<u>06-13-07-02</u>		<u>2.0L/min</u>	<u>OSHA 38</u>	

SPECIAL INSTRUCTIONS:

**Acceptable headspace criteria for VOC samples Yes ___ No ___

CHAIN OF POSSESSION:

SAMPLE TEMPERATURE AT SAMPLE RECEIPT: 4°C

RELINQUISHED BY:	RECEIVED BY:	DATE/TIME
<u>Tim Carter 6-13-07</u> <u>5:02pm</u>	<u>Jackie Colby</u>	<u>06/13/07 0930</u>

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
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Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/15/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 13, 2007
PROJECT NO.: IH7-0164**

Page 1 of 3

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ENVIRONMENTAL LABORATORIES, INC.
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PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

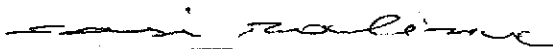
Project No.: IH7-0164
Report Date: 07/13/07
Date Received: 06/15/07
P.O. No.: S149.006

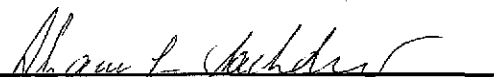
Sample Location: Former Kerr McGee Site, Hattiesburg, MS

Two industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0164
Report Date: 07/13/07
Date Rec'd: 06/15/07
P.O. No.: S149.006

Entek Sample ID: 07-07495
Sample ID: 06-14-07-01
Sample Date: 06/14/07

Parameter	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-1.253	-1.156	3.0	1.5	0.194	1112	0.174

Entek Sample ID: 07-07496
Sample ID: 06-14-07-02
Sample Date: 06/14/07

Parameter	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	0.058	0.141	3.0	1.5	0.166	1112	0.149

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00
	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 07/03/07 AJ
DTA Finish 07/05/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

The initial weight and final weight may be a negative number in cases where the sample crucible weighs less than the reference crucible.

CHAIN OF CUSTODY RECORD

COMPANY:

Earth Consulting Group, Inc.
110 Weisenberger Rd
Madison, Mississippi 39110

ENTEK PROJECT NUMBER:

1H7ECG0164

(circle one)

TURNAROUND TIME:

Reg / Rush

NEED BY DATE:

ATTN: Tim Carter
 PHONE: (601) 951-8124
 FAX: (601) 856-3978
 P.O.# 5149 006

~Sampler Must Complete~

Sampler's Name: <u>Tim Carter</u>
Number of Sample(s): <u>2</u>
Date/Time Sampled: <u>6-14-07</u>
Number & Type of Containers: <u>2 Cassettes</u>
Matrix: <u>air</u>
Transporting Cooler Temperature:

SAMPLE LOCATION:

Fernex Kerr Megec Site
Hattiesburg, MS

SAMPLE IDENTIFICATION	PRSTD Y / N	SAMPLE NOTES ACCEPTABLE CONTAINER, PACKING, ETC.	ANALYSES REQUESTED	STORAGE #
<u>06-14-07-01</u>		<u>2.0L/min</u>	<u>OSHA 58</u>	
<u>06-14-07-02</u>		<u>2.0L/min</u>	<u>OSHA 58</u>	

SPECIAL INSTRUCTIONS:

**Acceptable headspace criteria for VOC samples Yes ___ No ___

CHAIN OF POSSESSION:

SAMPLE TEMPERATURE AT SAMPLE RECEIPT:

RELINQUISHED BY	RECEIVED BY	DATE/TIME
<u>Tim Carter</u>	<u>Jackie Valdez</u>	<u>06/15/07 10:10</u>
<u>6-14-07 5:26 pm</u>		

ENTEK

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Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/18/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 13, 2007
PROJECT NO.: IH7-0168**

Page 1 of 3

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ENVIRONMENTAL LABORATORIES, INC.
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Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

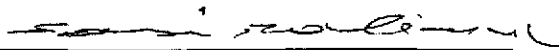
Project No.: IH7-0168
Report Date: 07/13/07
Date Received: 06/18/07
P.O. No.: S149.006

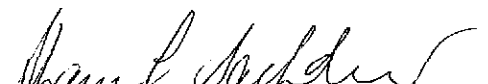
Sample Location: Former Kerr McGee Site, Hattiesburg, MS

Two industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

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ENVIRONMENTAL LABORATORIES, INC.
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Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0168
Report Date: 07/13/07
Date Rec'd: 06/18/07
P.O. No.: S149.006

Entek Sample ID: 07-07540
Sample ID: 06-15-07-01
Sample Date: 06/15/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.965	-0.930	3.0	1.5	0.070	686	0.102

Entek Sample ID: 07-07541
Sample ID: 06-15-07-02
Sample Date: 06/15/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	0.611	0.667	3.0	1.5	0.112	686	0.163

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00
	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 07/03/07 AJ
DTA Finish 07/05/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

The initial weight and final weight may be a negative number in cases where the sample crucible weighs less than the reference crucible.

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**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/19/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 13, 2007
PROJECT NO.: IH7-0169**

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
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PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

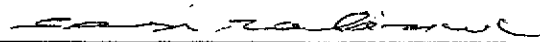
Project No.: IH7-0169
Report Date: 07/13/07
Date Received: 06/19/07
P.O. No.: S149.006

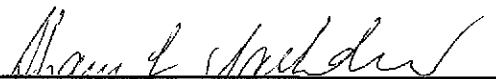
Sample Location: Former Kerr McGee Site, Hattiesburg, MS

Two industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
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Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0169
Report Date: 07/13/07
Date Rec'd: 06/19/07
P.O. No.: S149.006

Entek Sample ID: 07-07616
Sample ID: 06-18-07-01
Sample Date: 06/18/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.276	-0.239	3.0	1.5	0.074	680	0.109

Entek Sample ID: 07-07617
Sample ID: 06-18-07-02
Sample Date: 06/18/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	0.148	0.182	3.0	1.5	0.068	680	0.100

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00

	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 07/03/07 AJ
DTA Finish 07/05/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

The initial weight and final weight may be a negative number in cases where the sample crucible weighs less than the reference crucible.

ENTEK

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Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLE RECEIVED: 06/22/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 13, 2007
PROJECT NO.: IH7-0183**

Page 1 of 3

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
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Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

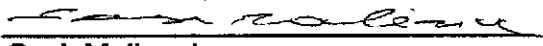
Project No.: IH7-0183
Report Date: 07/13/07
Date Received: 06/22/07
P.O. No.: S149.006

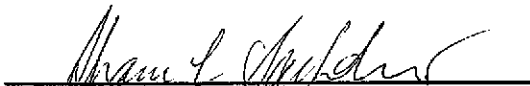
Sample Location: Former Kerr McGee Site, Hattiesburg, MS

One industrial hygiene cassette was received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
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Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0183
Report Date: 07/13/07
Date Rec'd: 06/22/07
P.O. No.: S149.006

Entek Sample ID: 07-07849
Sample ID: 06-21-07-01
Sample Date: 06/21/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	3.952	3.979	3.0	1.5	0.054	672	0.080

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00

	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 07/03/07 AJ
DTA Finish 07/05/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
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Email: enteklabs@att.net



**INDUSTRIAL HYGIENE
BSF - OSHA 58 ANALYSES
SAMPLES RECEIVED: 06/26/07**

FOR

**EARTH CONSULTING GROUP, INC.
110 WEISENBERGER ROAD
MADISON, MS 39110**

ATTENTION: TIM CARTER

**JULY 13, 2007
PROJECT NO.: IH7-0186**

Page 1 of 3

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

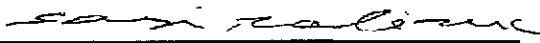
Project No.: IH7-0186
Report Date: 07/13/07
Date Received: 06/26/07
P.O. No.: S149.006

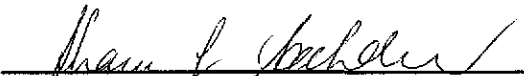
Sample Location: Former Kerr McGee Site, Hattiesburg, MS

Two industrial hygiene cassettes were received and analyzed for Benzene Soluble Fraction, Method OSHA 58, as requested.

Entek is pleased to have had the opportunity to provide analytical services for parameters as requested. Please do not hesitate to contact our office if you have any questions or require additional information concerning this report.

This information has been reviewed by:


Sayi Malineni
QA Coordinator


Sham L. Sachdev Ph. D., CHCM
Laboratory Director

ms

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817
PHONE: (225) 752-2900 FAX (225) 756-2706
Email: enteklabs@att.net



Earth Consulting Group, Inc.
Madison, MS
Attention: Tim Carter

Project No.: IH7-0186
Report Date: 07/13/07
Date Rec'd: 06/26/07
P.O. No.: S149.006

Entek Sample ID: 07-07959
Sample ID: 06-25-07-01
Sample Date: 06/25/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	0.293	0.315	3.0	1.5	0.044	930	0.047

Entek Sample ID: 07-07960
Sample ID: 06-25-07-02
Sample Date: 06/25/07

	Initial Wt. (mg)	Final Wt. (mg)	Desorption (mLs)	Analysis Vol (mLs)	Total (mg/filter)	Air Vol (L)	Conc. (mg/m ³)
BSF*	-0.531	-0.530	3.0	1.5	<0.010	930	<0.011

Quality Control

	Method Number	Quant. Limit (mg)	QA/QC (obs/true)
BSF*	OSHA 58	0.01	5.014/5.00

	Run 1 (mg)	Run 2 (mg)	%RPD
BSF*	10.022	10.019	0.030

DTA Start 07/03/07 AJ
DTA Finish 07/05/07 AJ

* BSF - Benzene Soluble Fraction.

The sample results were all below the PEL of 0.20mg/m³ for the BSF. Subsequently, the analysis for individual PAH's was not required.

The initial weight and final weight may be a negative number in cases where the sample crucible weighs less than the reference crucible.

ENTEK

ENVIRONMENTAL LABORATORIES, INC.
14285 AIRLINE HIGHWAY
BATON ROUGE, LOUISIANA 70817

Please Remit to:
P.O. Box 83412
Baton Rouge, LA 70884-3412

INVOICE

PHONE: (225) 752-2900
FAX: (225) 756-2706
Email: enteklabs@att.net

COPY

Invoice Date: 07/16/07

Invoice No: IH7-0186

Sample Rec'd: 06/13-06/26

ACCOUNTS PAYABLE
EARTH CONSULTING GROUP
POST OFFICE BOX 1246
MADISON, MS 39130

P.O. No.: \$149.006

Notice: Report Mailed To:
TIM CARTER

Location: Former Kerr McGee Site, Hattiesburg, MS

OFFICE USE ONLY: IH: 780.00

QUANTITY ORDERED	DESCRIPTION	UNIT PRICE	AMOUNT
	Samples Received: 06/13 - Entek IH7-0159		
2	BENZENE SOLUBLE FRACTION - OSHA 58	60.00	\$120.00
	Samples Received: 06/14 - Entek IH7-0160		
2	BENZENE SOLUBLE FRACTION - OSHA 58	60.00	\$120.00
	Samples Received: 06/15 - Entek IH7-0164		
2	BENZENE SOLUBLE FRACTION - OSHA 58	60.00	\$120.00
	Samples Received: 06/18 - Entek IH7-0168		
2	BENZENE SOLUBLE FRACTION - OSHA 58	60.00	\$120.00
	Samples Received: 06/19 - Entek IH7-0169		
2	BENZENE SOLUBLE FRACTION - OSHA 58	60.00	\$120.00
	Samples Received: 06/22 - Entek IH7-0183		
1	BENZENE SOLUBLE FRACTION - OSHA 58	60.00	\$60.00
	Samples Received: 06/26 - Entek IH7-0186		
2	BENZENE SOLUBLE FRACTION - OSHA 58	60.00	\$120.00
COURTESY COPY			
SUB-TOTAL			780.00
FOR YOUR RECORDS			
TERMS: NET 30 DAYS			
TOTAL AMOUNT DUE			\$780.00



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**EARTH CONSULTING GROUP, INC.
AIR SAMPLING FIELD DATA SHEET**

Client:	Mississippi Department of Transportation	Row No.:	BWO-2001-54(008) / 501635 101000
County:	Panola County	Location:	District Office Building
EarthCon Project No.:	M133.285	Area:	Mechanical room
Contractor:	Panola Construction Compnay	Removal Type:	Demo
Collected By:	R. Sampson	Date:	6/7/2007

Field Sample Identification

Sample No.	Sample Location	Sample Type
60701	Inside Work Area East	Area
60702	Outside Work Area West Hallway	Area

SAMPLING AND ANALYTICAL DATA

Sample No.:	01	02				
Begin Time	8:00 AM	8:00 AM				
End Time	1:30 PM	1:30 PM				
Down Time (min)	---	---				
Total Time (min)	330	330				
Flow Rate (L/min)	2.0	2.0				
Total Volume (l)	660	660				
Fibers Counted	6.5	9				
Fields Counted	100	100				
Fiber Conc. (fibers/cm3)	<.007	<.007				
Detection Limit (fibers/cm3)	0.007	0.007				
Time Weighted Average						
8 Hour TWA						
QC Fibers Counted						

Analyses Conducted in Accordance with NIOSH Method 7400

Earth Consulting Group Proficiency Analytical Testing (PAT) Lab ID #102970

Analyst