

**Appendix A**

**Phase I Remedial Investigation Data Summary Tables**

**Former Gulf States Creosoting Site  
Hattiesburg, Mississippi**

Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	MP&A Sample ID		CPT/ISB-01/8-10		CPT/ISB-01/44-46		CPT/ISB-02/9-11		CPT/ISB-03/20-22		CPT/ISB-04/20-22	
			Lab Sample Number	Date Collected	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result
<b>TCL Volatiles</b>														
1,1-Dichloroethene	75-35-4	0.002	ND		ND		ND		ND		ND		ND	
Trichloroethene	79-01-6	0.001	ND		ND		ND		ND		ND		ND	J
Benzene	71-43-2	0.001	ND		ND		0.013		0.013		ND		0.021	
Toluene	108-88-3	0.001	ND		ND		0.28		0.28		ND		0.34	
Chlorobenzene	108-90-7	0.001	ND		ND		ND		ND		ND		1.3	
Xylene (total)	1330-20-7	0.001	ND		ND		ND		ND		ND		ND	
Chloromethane	74-87-3	0.002	ND		ND		ND		ND		ND		0.01	
Bromomethane	74-83-9	0.003	ND		ND		ND		ND		ND		0.015	
Vinyl Chloride	75-01-4	0.002	ND		ND		ND		ND		ND		0.01	
Chloroethane	75-00-3	0.003	ND		ND		ND		ND		ND		0.015	
Methylene Chloride	75-09-2	0.002	ND		ND		ND		ND		ND		0.01	
1,1-Dichloroethane	75-34-3	0.001	ND		ND		ND		ND		ND		0.005	
Chloroform	67-66-3	0.001	ND		ND		ND		ND		ND		0.005	
1,2-Dichloroethane	107-06-2	0.002	ND		ND		ND		ND		ND		0.01	
1,1,1-Trichloroethane	71-55-6	0.001	ND		ND		ND		ND		ND		0.005	
Carbon Tetrachloride	56-23-5	0.001	ND		ND		ND		ND		ND		0.005	
Bromodichloromethane	75-27-4	0.002	ND		ND		ND		ND		ND		0.01	
1,1,2,2-Tetrachloroethane	79-34-5	0.001	ND		ND		ND		ND		ND		0.005	
1,2-Dichloropropane	78-87-5	0.003	ND		ND		ND		ND		ND		0.015	
trans-1,3-Dichloropropene	10061-02-6	0.001	ND		ND		ND		ND		ND		0.005	
Dibromochloromethane	124-48-1	0.001	ND		ND		ND		ND		ND		0.01	
1,1,2-Trichloroethane	79-00-5	0.002	ND		ND		ND		ND		ND		0.005	
cis-1,3-Dichloropropene	10061-01-5	0.001	ND		ND		ND		ND		ND		0.01	
Bromoform	75-25-2	0.001	ND		ND		ND		ND		ND		0.005	
Tetrachloroethene	127-18-4	0.001	ND		ND		ND		ND		ND		0.005	
Ethylbenzene	100-41-4	0.001	ND		ND		0.046		0.046		ND		0.25	
Acetone	67-64-1	0.007	0.059	J	0.035	J	0.009	J	0.009	J	0.035	J	0.099	J
Carbon Disulfide	75-15-0	0.003	ND		ND		ND		ND		ND		0.015	
2-Butanone	78-93-3	0.007	ND		ND		ND		ND		ND		0.035	
Vinyl Acetate	108-05-4	0.003	ND		ND		ND		ND		ND		0.015	
2-Hexanone	591-78-6	0.003	ND		ND		ND		ND		ND		0.015	
4-Methyl-2-pentanone	108-10-1	0.003	ND		ND		ND		ND		ND		0.015	
Styrene	100-42-5	0.001	ND		ND		ND		ND		ND		0.005	
trans-1,2-Dichloroethene	156-60-5	0.002	ND		ND		ND		ND		ND		0.01	
cis-1,2-Dichloroethene	156-59-2	0.002	ND		ND		ND		ND		ND		0.01	

Notes

Analytical methods: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/ISB-29/6-8 is a blind duplicate of sample

GEO/ISB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	MP&A Sample ID Lab Sample Number Date Collected	CPT/SB-01/8-10 2679073 3/15/97	CPT/SB-01/44-46 2679074 3/15/97	CPT/SB-02/9-11 2679075 3/15/97	CPT/SB-03/20-22 2679076 3/15/97	CPT/SB-04/20-22 2679077 3/15/97		
				Result	Sample-Specific MDL	Result	Sample-Specific MDL	Result	Sample-Specific MDL	Notes
TCL Semivolatiles										
phenol	108-95-2	0.033		ND	0.17	ND		53	1.7	
2-chlorophenol	95-57-8	0.033		ND	0.17	ND		ND	0.17	
1,4-dichlorobenzene	106-46-7	0.033		ND	0.17	ND		ND	0.17	
N-nitrosodi-n-propylamine	621-64-7	0.067		ND	0.33	ND		ND	0.33	
1,2,4-trichlorobenzene	120-82-1	0.033		ND	0.17	ND		ND	0.17	
4-chloro-3-methylphenol	59-50-7	0.067		ND	0.33	ND		ND	0.33	
acenaphthene	83-32-9	0.033		ND	0.17	26		73	1.7	
4-nitrophenol	100-02-7	0.17		ND	0.83	ND		ND	0.83	
2,4-dinitrotoluene	121-14-2	0.067		ND	0.33	ND		ND	0.33	
pentachlorophenol	87-86-5	0.17		ND	0.83	ND		ND	0.83	
pyrene	129-00-0	0.067		ND	0.33	24		62	3.3	
2-nitrophenol	88-75-5	0.067		ND	0.33	ND		ND	0.33	
2,4-dimethylphenol	105-67-9	0.067		ND	0.33	ND		20	0.33	
2,4-dichlorophenol	120-83-2	0.033		ND	0.17	ND		ND	0.17	
2,4,6-trichlorophenol	88-06-2	0.067		ND	0.33	ND		ND	0.33	
2,4-dinitrophenol	51-28-5	0.17		ND	0.83	ND		ND	0.83	
bis (2-chloroethyl) ether	111-44-4	0.067		ND	0.33	ND		ND	0.33	
1,3-dichlorobenzene	541-73-1	0.033		ND	0.17	ND		ND	0.17	
1,2-dichlorobenzene	95-50-1	0.033		ND	0.17	ND		ND	0.17	
hexachloroethane	67-72-1	0.067		ND	0.33	ND		ND	0.33	
nitrobenzene	98-95-3	0.033		ND	0.17	ND		ND	0.17	
isophorone	78-59-1	0.067		ND	0.33	ND		ND	0.33	
bis (2-chloroethoxy) methane	111-91-1	0.033		ND	0.17	ND		ND	0.17	
naphthalene	91-20-3	0.033		ND	1.7	180		340	3.3	
hexachlorobutadiene	87-68-3	0.067		ND	0.33	ND		ND	0.33	
hexachlorocyclopentadiene	77-47-4	0.17		ND	0.83	ND		ND	0.83	
2-chloronaphthalene	91-58-7	0.033		ND	0.17	ND		ND	0.17	
acenaphthylene	208-96-8	0.033		ND	0.17	0.84		3.7	0.17	
dimethyl phthalate	131-11-3	0.033		ND	0.17	ND		ND	0.17	
fluorene	86-73-7	0.033		ND	1.7	47		90	1.7	
4-chlorophenyl phenyl ether	7005-72-3	0.067		ND	0.33	ND		ND	0.33	
diethyl phthalate	84-66-2	0.067		ND	0.33	ND		ND	0.33	
N-nitrosodiphenylamine	86-30-6	0.067		ND	0.33	ND		ND	0.33	
4-bromophenyl phenyl ether	101-55-3	0.1		ND	0.5	ND		ND	0.5	
hexachlorobenzene	118-74-1	0.1		ND	0.5	ND		ND	0.5	

Notes

Analytical methods: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

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(a) Sample GEO/SB-29/6-8 is a blind duplicate of sample

GEO/SB-05/409.

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Table  
**Summary of Subsurface Soil Analytical Results**  
**Former Gulf States Creosoting Site**  
**Hattiesburg, Mississippi**

Parameter	CAS Number	Standard MDL	MP&A Sample ID		CPT/SB-01/8-10		CPT/SB-01/44-46		CPT/SB-02/9-11		CPT/SB-03/20-22		CPT/SB-04/20-22	
			Lab Sample Number	Date Collected	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result
phenanthrene	85-01-8	0.033	ND		ND		ND		110		ND		1.7	190
anthracene	120-12-7	0.033	ND		ND		ND		18		ND		0.17	26
di-n-butyl phthalate	84-74-2	0.033	ND		ND		ND		ND		ND		0.17	ND
fluoranthene	206-44-0	0.033	ND		ND		ND		56		ND		1.7	98
butyl benzyl phthalate	85-68-7	0.067	ND		ND		ND		ND		ND		0.33	ND
benzo (a) anthracene	56-55-3	0.033	ND		ND		ND		9.5		ND		0.17	15
chrysene	218-01-9	0.033	ND		ND		ND		8.5		ND		0.17	14
3,3'-dichlorobenzidine	91-94-1	0.13	ND		ND		ND		ND		ND		0.67	ND
bis (2-ethylhexyl) phthalate	117-81-7	0.067	ND		ND		ND		ND		ND		0.33	ND
di-n-octyl phthalate	117-84-0	0.067	ND		ND		ND		ND		ND		0.33	ND
benzo (b) fluoranthene	205-99-2	0.067	ND		ND		ND		5.1		ND		0.33	ND
benzo (k) fluoranthene	207-08-9	0.13	ND		ND		ND		1.9		ND		0.67	3.6
benzo (a) pyrene	50-32-8	0.067	ND		ND		ND		3.5		ND		0.33	6.6
indeno (1,2,3-cd) pyrene	193-39-5	0.067	ND		ND		ND		1.2	J	ND		0.33	2.7
dibenz (a,h) anthracene	53-70-3	0.067	ND		ND		ND		ND		ND		0.33	0.79
benzo (ghi) perylene	191-24-2	0.067	ND		ND		ND		0.99	J	ND		0.33	2.1
2-methylphenol	95-48-7	0.067	ND		ND		ND		ND		ND		0.33	20
2,2'-oxybis (1-chloropropane)	108-60-1	0.1	ND		ND		ND		ND		ND		0.5	76
4-methylphenol	106-44-5	0.1	ND		ND		ND		ND		ND		0.5	ND
4-chloroaniline	106-47-8	0.1	ND		ND		ND		ND		ND		0.5	ND
2-methylnaphthalene	91-57-6	0.033	ND		ND		ND		79		ND		0.33	110
2,4,5-trichlorophenol	95-95-4	0.067	ND		ND		ND		ND		ND		0.33	ND
2-nitroaniline	88-74-4	0.067	ND		ND		ND		ND		ND		0.33	ND
3-nitroaniline	99-09-2	0.067	ND		ND		ND		ND		ND		0.33	ND
dibenzofuran	132-64-9	0.033	ND		ND		ND		26		ND		1.7	68
2,6-dinitrotoluene	606-20-2	0.067	ND		ND		ND		ND		ND		0.33	ND
4-nitroaniline	100-01-6	0.1	ND		ND		ND		ND		ND		0.5	ND
4,6-dinitro-2-methylphenol	534-52-1	0.17	ND		ND		ND		ND		ND		0.83	ND
carbazole	86-74-8	0.033	ND		ND		ND		11		ND		0.17	15

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**Former Gulf States Creosoting Site**  
**Hattiesburg, Mississippi**

Parameter	CAS Number	Standard MDL	MP&A Sample ID		CPT/ISB-04/29-31		CPT/ISB-05/10.5-12.5		CPT/ISB-06/6-10		CPT/ISB-06/36-38		CPT/ISB-07/14-16	
			Lab Sample Number	Date Collected	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL
TCL Volatiles														
1,1-Dichloroethene	75-35-4	0.002	0.01	ND		0.01	ND		ND		ND		ND	
Trichloroethene	79-01-6	0.001	0.005	ND		0.005	ND		ND		ND		ND	
Benzene	71-43-2	0.001	0.005	0.006	J	0.005	0.007	J	ND		ND		0.005	J
Toluene	108-88-3	0.001	0.005	0.063		0.005	0.14		ND		ND		0.015	
Chlorobenzene	108-90-7	0.001	0.005	ND		0.005	ND		ND		ND		ND	
Xylene (total)	1330-20-7	0.001	0.005	0.35		0.005	0.78		ND		ND		0.075	
Chloromethane	74-87-3	0.002	0.01	ND		0.01	ND		ND		ND		ND	
Bromomethane	74-83-9	0.003	0.015	ND		0.015	ND		ND		ND		ND	
Vinyl Chloride	75-01-4	0.002	0.01	ND		0.01	ND		ND		ND		ND	
Chloroethane	75-00-3	0.003	0.015	ND		0.015	ND		ND		ND		ND	
Methylene Chloride	75-09-2	0.002	0.01	ND		0.01	ND		ND		ND		ND	
1,1-Dichloroethane	75-34-3	0.001	0.005	ND		0.005	ND		ND		ND		ND	
Chloroform	67-66-3	0.001	0.005	ND		0.005	ND		ND		ND		ND	
1,2-Dichloroethane	107-06-2	0.002	0.01	ND		0.01	ND		ND		ND		ND	
1,1,1-Trichloroethane	71-55-6	0.001	0.005	ND		0.005	ND		ND		ND		ND	
Carbon Tetrachloride	56-23-5	0.001	0.005	ND		0.005	ND		ND		ND		ND	
Bromodichloromethane	75-27-4	0.002	0.01	ND		0.01	ND		ND		ND		ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.001	0.005	ND		0.005	ND		ND		ND		ND	
1,2-Dichloropropane	78-87-5	0.003	0.015	ND		0.015	ND		ND		ND		ND	
trans-1,3-Dichloropropene	10061-02-6	0.001	0.005	ND		0.005	ND		ND		ND		ND	
Dibromochloromethane	124-48-1	0.001	0.005	ND		0.005	ND		ND		ND		ND	
1,1,2-Trichloroethane	79-00-5	0.002	0.01	ND		0.01	ND		ND		ND		ND	
cis-1,3-Dichloropropene	10061-01-5	0.001	0.005	ND		0.005	ND		ND		ND		ND	
Bromoform	75-25-2	0.001	0.005	ND		0.005	ND		ND		ND		ND	
Tetrachloroethene	127-18-4	0.001	0.005	ND		0.005	ND		ND		ND		ND	
Ethylbenzene	100-41-4	0.001	0.005	0.06		0.005	0.12	J	ND		ND		0.024	J
Acetone	67-64-1	0.007	0.035	0.068	J	0.035	0.1	J	0.01		1.5		0.042	J
Carbon Disulfide	75-15-0	0.003	0.015	ND		0.015	ND		ND		ND		ND	
2-Butanone	78-93-3	0.007	0.035	ND		0.035	ND		ND		ND		ND	
Vinyl Acetate	108-05-4	0.003	0.015	ND		0.015	ND		ND		ND		ND	
2-Hexanone	591-78-6	0.003	0.015	ND		0.015	ND		ND		ND		ND	
4-Methyl-2-pentanone	108-10-1	0.003	0.015	ND		0.015	ND		ND		ND		ND	
Styrene	100-42-5	0.001	0.005	0.071		0.005	0.1		ND		ND		ND	
trans-1,2-Dichloroethene	156-60-5	0.002	0.01	ND		0.01	ND		ND		ND		ND	
cis-1,2-Dichloroethene	156-59-2	0.002	0.01	ND		0.01	ND		ND		ND		ND	

**Notes**  
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(a) Sample GEO/ISB-29/6-8 is a blind duplicate of sample GEO/ISB-05/409.

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Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	MP&A Sample ID		CPT/04/29-31		CPT/05/10.5-12.5		CPT/06/06-10		CPT/06/06-38		CPT/07/14-16	
			Lab Sample Number	Date Collected	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL
TCL Semivolatiles														
phenol	108-95-2	0.033	1.7	46	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
2-chlorophenol	95-57-8	0.033	0.17	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
1,4-dichlorobenzene	106-46-7	0.033	0.17	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodi-n-propylamine	621-64-7	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-trichlorobenzene	120-82-1	0.033	0.17	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
4-chloro-3-methylphenol	59-50-7	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
acenaphthene	83-32-9	0.033	1.7	51	51	6.7	290	0.042	J	0.17				
4-nitrophenol	100-02-7	0.17	0.83	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrotoluene	121-14-2	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	87-86-5	0.17	0.83	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND
pyrene	129-00-0	0.067	0.33	26	26	13	250	ND	ND	ND	ND	ND	ND	ND
2-nitrophenol	88-75-5	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dimethylphenol	105-67-9	0.067	0.33	17	17	1.3	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dichlorophenol	120-83-2	0.033	0.17	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
2,4,6-trichlorophenol	88-06-2	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
2,4-dinitrophenol	51-28-5	0.17	0.83	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-chloroethyl) ether	111-44-4	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
1,3-dichlorobenzene	541-73-1	0.033	0.17	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
1,2-dichlorobenzene	95-50-1	0.033	0.17	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
hexachloroethane	67-72-1	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
nitrobenzene	98-95-3	0.033	0.17	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
isophorone	78-59-1	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
bis (2-chloroethoxy) methane	111-91-1	0.033	0.17	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
naphthalene	91-20-3	0.033	1.7	200	200	6.7	910	ND	ND	ND	ND	ND	ND	ND
hexachlorobutadiene	87-68-3	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
hexachlorocyclopentadiene	77-47-4	0.17	0.83	ND	ND	3.3	ND	ND	ND	ND	ND	ND	ND	ND
2-chloronaphthalene	91-58-7	0.033	0.17	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
acenaphthylene	208-96-8	0.033	0.17	2.7	2.7	0.67	10	ND	ND	ND	ND	ND	ND	ND
dimethyl phthalate	131-11-3	0.033	0.17	ND	ND	0.67	ND	ND	ND	ND	ND	ND	ND	ND
fluorene	86-73-7	0.033	1.7	64	64	6.7	330	0.049	J	0.17				
4-chlorophenyl phenyl ether	7005-72-3	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
diethyl phthalate	84-66-2	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
N-nitrosodiphenylamine	86-30-6	0.067	0.33	ND	ND	1.3	ND	ND	ND	ND	ND	ND	ND	ND
4-bromophenyl phenyl ether	101-55-3	0.1	0.5	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND
hexachlorobenzene	118-74-1	0.1	0.5	ND	ND	2	ND	ND	ND	ND	ND	ND	ND	ND

Notes  
Analytical methods: SW-846 8240B for volatiles;  
SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.  
Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/05/409 is a blind duplicate of sample GEO/05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.  
R - Unusable result; analyte may or may not be present in the sample.

**Summary of Subsurface Soil Analytical Results**  
**Former Gulf States Creosoting Site**  
**Hattiesburg, Mississippi**

Parameter	CAS Number	Standard MDL	MP&A Sample ID		CPT/BS-04/29-31		CPT/BS-05/10.S-12.5		CPT/BS-06/6-10		CPT/BS-06/36-38		CPT/BS-07/14-16	
			Lab Sample Number	Date Collected	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result	Notes	Sample-Specific MDL	Result
phenanthrene	85-01-8	0.033	1.7	130	6.7	710	ND		0.16	J	0.17	20		
anthracene	120-12-7	0.033	0.17	20	0.67	98	ND		ND		0.17	4.8		
di-n-butyl phthalate	84-74-2	0.033	0.17	ND	0.67	ND	ND		ND		0.17	ND		
fluoranthene	206-44-0	0.033	1.7	71	6.7	430	ND		0.094	J	0.17	8.2		
butyl benzyl phthalate	85-68-7	0.067	0.33	ND	1.3	ND	ND		ND		0.17	ND		
benzo (a) anthracene	56-55-3	0.033	0.17	10	0.67	62	ND		ND		0.17	1.3		
chrysene	218-01-9	0.033	0.17	ND	2.7	ND	ND		ND		0.17	1.3		
3,3'-dichlorobenzidine	91-94-1	0.13	0.67	ND	1.3	ND	ND		ND		0.17	ND		
bis (2-ethylhexyl) phthalate	117-81-7	0.067	0.33	ND	1.3	ND	ND		ND		0.17	ND		
di-n-octyl phthalate	117-84-0	0.067	0.33	ND	1.3	ND	ND		ND		0.17	ND		
benzo (b) fluoranthene	205-99-2	0.067	0.33	6.6	1.3	38	ND		ND		0.17	0.89	J	
benzo (k) fluoranthene	207-08-9	0.13	0.67	2.6	2.7	13	ND		ND		0.17	0.33		
benzo (a) pyrene	50-32-8	0.067	0.33	4.9	1.3	26	ND		ND		0.17	0.69		
indeno (1,2,3-cd) pyrene	193-39-5	0.067	0.33	2	1.3	8.5	ND		ND		0.17	0.38		
dibenz (a,h) anthracene	53-70-3	0.067	0.33	0.58	1.3	2.5	ND	J	ND		0.17	0.09	J	
benzo (ghi) perylene	191-24-2	0.067	0.33	1.5	1.3	6.5	ND	J	ND		0.17	0.28	J	
2-methylphenol	95-48-7	0.067	0.33	17	1.3	ND	ND		ND		0.17	ND		
2,2'-oxybis (1-chloropropane)	108-60-1	0.1	0.5	ND	2	ND	ND		ND		0.17	ND		
4-methylphenol	106-44-5	0.1	5	71	2	ND	ND		ND		0.17	ND		
4-chloroaniline	106-47-8	0.1	0.5	ND	2	ND	ND		ND		0.17	15		
2-methylnaphthalene	91-57-6	0.033	1.7	77	6.7	440	ND		ND		0.17	ND		
2,4,5-trichlorophenol	95-95-4	0.067	0.33	ND	1.3	ND	ND		ND		0.17	ND		
2-nitroaniline	88-74-4	0.067	0.33	ND	1.3	ND	ND		ND		0.17	ND		
3-nitroaniline	99-09-2	0.067	0.33	ND	1.3	ND	ND		ND		0.17	ND		
dibenzofuran	132-64-9	0.033	1.7	48	6.7	270	ND		0.037	J	0.17	9.7		
2,6-dinitrotoluene	606-20-2	0.067	0.33	ND	1.3	ND	ND		ND		0.17	ND		
4-nitroaniline	100-01-6	0.1	0.5	ND	2	ND	ND		ND		0.17	ND		
4,6-dinitro-2-methylphenol	534-52-1	0.17	0.83	ND	3.3	ND	ND		ND		0.17	ND		
carbazole	86-74-8	0.033	0.17	11	0.67	69	ND		ND		0.17	0.97		

**Notes**  
 Analytical methods: SW-846 8240B for volatiles;  
 SW-846 8270B for semivolatiles.  
 All results are reported on an "as received" basis in mg/kg.  
 Last two numbers of MP&A Sample ID indicate sample depth interval.  
 (a) Sample GEO/BS-29/6-8 is a blind duplicate of sample GEO/BS-05/409.  
 J - Estimated value; in cases of ND, indicates MDL is estimated.  
 R - Unusable result; analyte may or may not be present in the sample.

Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

MP&A Sample ID GEO/SB-01/10-12 GEO/SB-02/10-12 GEO/SB-03/8-9.3 GEO/SB-04/10-12 GEO/SB-05/4-9  
Lab Sample Number 2680801 2680802 2680803 2680804 2680805  
Date Collected 3/18/97 3/18/97 3/18/97 3/18/97 3/18/97

Parameter	CAS Number	Standard MDL	Result	Notes	Result	Notes	Result	Notes	Result	Notes	Sample-Specific MDL	Result	Notes
TCL Volatiles													
1,1-Dichloroethene	75-35-4	0.002	ND		ND		ND		ND		0.01	ND	
Trichloroethene	79-01-6	0.001	ND		ND		ND		ND		0.005	ND	
Benzene	71-43-2	0.001	ND		ND		ND		ND		0.005	ND	
Toluene	108-88-3	0.001	ND		ND		ND		ND		0.005	0.05	
Chlorobenzene	108-90-7	0.001	ND		ND		ND		ND		0.005	ND	
Xylene (total)	1330-20-7	0.001	ND		ND		ND		ND		0.005	1.2	
Chloromethane	74-87-3	0.002	ND		ND		ND		ND		0.01	ND	
Bromomethane	74-83-9	0.003	ND		ND		ND		ND		0.015	ND	
Vinyl Chloride	75-01-4	0.002	ND		ND		ND		ND		0.01	ND	
Chloroethane	75-00-3	0.003	ND		ND		ND		ND		0.015	ND	
Methylene Chloride	75-09-2	0.002	ND		ND		ND		ND		0.01	ND	
1,1-Dichloroethane	75-34-3	0.001	ND		ND		ND		ND		0.005	ND	
Chloroform	67-66-3	0.001	ND		ND		ND		ND		0.005	ND	
1,2-Dichloroethane	107-06-2	0.002	ND		ND		ND		ND		0.01	ND	
1,1,1-Trichloroethane	71-55-6	0.001	ND		ND		ND		ND		0.005	ND	
Carbon Tetrachloride	56-23-5	0.001	ND		ND		ND		ND		0.005	ND	
Bromodichloromethane	75-27-4	0.002	ND		ND		ND		ND		0.01	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.001	ND		ND		ND		ND		0.005	ND	
1,2-Dichloropropane	78-87-5	0.003	ND		ND		ND		ND		0.015	ND	
trans-1,3-Dichloropropene	10061-02-6	0.001	ND		ND		ND		ND		0.005	ND	
Dibromochloromethane	124-48-1	0.001	ND		ND		ND		ND		0.005	ND	
1,1,2-Trichloroethane	79-00-5	0.002	ND		ND		ND		ND		0.01	ND	
cis-1,3-Dichloropropene	10061-01-5	0.001	ND		ND		ND		ND		0.005	ND	
Bromoform	75-25-2	0.001	ND		ND		ND		ND		0.005	ND	
Tetrachloroethene	127-18-4	0.001	ND		ND		ND		ND		0.005	ND	
Ethylbenzene	100-41-4	0.001	ND		ND		ND		ND		0.005	0.23	
Acetone	67-64-1	0.007	ND		ND		ND		ND		0.035	0.073	J
Carbon Disulfide	75-15-0	0.003	ND		ND		ND		ND		0.015	ND	
2-Butanone	78-93-3	0.007	ND		ND		ND		ND		0.035	ND	
Vinyl Acetate	108-05-4	0.003	ND		ND		ND		ND		0.015	ND	
2-Hexanone	591-78-6	0.003	ND		ND		ND		ND		0.015	ND	
4-Methyl-2-pentanone	108-10-1	0.003	ND		ND		ND		ND		0.015	ND	
Styrene	100-42-5	0.001	ND		ND		ND		ND		0.005	ND	
trans-1,2-Dichloroethene	156-60-5	0.002	ND		ND		ND		ND		0.01	ND	
cis-1,2-Dichloroethene	156-59-2	0.002	ND		ND		ND		ND		0.01	ND	

Notes

Analytical methods: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-29/6-8 is a blind duplicate of sample

GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.



Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	GEO/SB-01/10-12		GEO/SB-02/10-12		GEO/SB-03/8-9.3		GEO/SB-04/10-12		GEO/SB-05/4-9	
			Lab Sample Number	Date Collected	2680801	2680802	2680803	2680804	2680805	3/18/97	3/18/97	3/18/97
TCL Semivolatiles												
phenol	108-95-2	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
2-chlorophenol	95-57-8	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
1,4-dichlorobenzene	106-46-7	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
N-nitrosodi-n-propylamine	621-64-7	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
1,2,4-trichlorobenzene	120-82-1	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
4-chloro-3-methylphenol	59-50-7	0.067	ND	ND	ND	ND	ND	ND	ND	ND	3.3	63
acenaphthene	83-32-9	0.033	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND
4-nitrophenol	100-02-7	0.17	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND
2,4-dinitrotoluene	121-14-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND
pentachlorophenol	87-86-5	0.17	ND	ND	ND	ND	ND	ND	ND	ND	6.7	180
pyrene	129-00-0	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
2-nitrophenol	88-75-5	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
2,4-dimethylphenol	105-67-9	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	1.2
2,4-dichlorophenol	120-83-2	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
2,4,6-trichlorophenol	88-06-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
2,4-dinitrophenol	51-28-5	0.17	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND
bis (2-chloroethyl) ether	111-44-4	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
1,3-dichlorobenzene	541-73-1	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
1,2-dichlorobenzene	95-50-1	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
hexachloroethane	67-72-1	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
nitrobenzene	98-95-3	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
isophorone	78-59-1	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
bis (2-chloroethoxy) methane	111-91-1	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
naphthalene	91-20-3	0.033	0.098	J	ND	ND	0.2	J	ND	ND	3.3	400
hexachlorobutadiene	87-68-3	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
hexachlorocyclopentadiene	77-47-4	0.17	ND	ND	ND	ND	ND	ND	ND	ND	1.7	ND
2-chloronaphthalene	91-58-7	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	8.3
acenaphthylene	208-96-8	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
dimethyl phthalate	131-11-3	0.033	ND	ND	ND	ND	ND	ND	ND	ND	0.33	ND
fluorene	86-73-7	0.033	ND	ND	ND	ND	ND	ND	ND	ND	3.3	130
4-chlorophenyl phenyl ether	7005-72-3	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
diethyl phthalate	84-66-2	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
N-nitrosodiphenylamine	86-30-6	0.067	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND
4-bromophenyl phenyl ether	101-55-3	0.1	ND	ND	ND	ND	ND	ND	ND	ND	1	ND
hexachlorobenzene	118-74-1	0.1	ND	ND	ND	ND	ND	ND	ND	ND	1	ND

Notes  
Analytical methods: SW-846 8240B for volatiles;  
SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.  
Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-29/6-8 is a blind duplicate of sample  
GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

MP&A Sample ID GEO/SB-01/10-12 GEO/SB-02/10-12 GEO/SB-03/8-9.3 GEO/SB-04/10-12 GEO/SB-05/4-9  
Lab Sample Number 2680801 2680802 2680803 2680804 2680805  
Date Collected 3/18/97 3/18/97 3/18/97 3/18/97 3/18/97

Parameter	CAS Number	Standard MDL	GEO/SB-01/10-12		GEO/SB-02/10-12		GEO/SB-03/8-9.3		GEO/SB-04/10-12		GEO/SB-05/4-9	
			Result	Notes	Result	Notes	Result	Notes	Result	Notes	Result	Notes
phenanthrene	85-01-8	0.033	ND		ND		ND		ND		3.3	360
anthracene	120-12-7	0.033	ND		ND		ND		ND		3.3	98
di-n-butyl phthalate	84-74-2	0.033	ND		ND		ND		ND		0.33	ND
fluoranthene	206-44-0	0.033	ND		ND		ND		ND		3.3	220
butyl benzyl phthalate	85-68-7	0.067	ND		ND		ND		ND		0.67	ND
benzo (a) anthracene	56-55-3	0.033	ND		ND		ND		ND		0.33	52
chrysene	218-01-9	0.033	ND		ND		ND		ND		0.33	48
3,3'-dichlorobenzidine	91-94-1	0.13	ND		ND		ND		ND		1.3	ND
bis (2-ethylhexyl) phthalate	117-81-7	0.067	ND		ND		ND		ND		0.67	ND
di-n-octyl phthalate	117-84-0	0.067	ND		ND		ND		ND		0.67	ND
benzo (b) fluoranthene	205-99-2	0.067	ND		ND		ND		ND		0.67	36
benzo (k) fluoranthene	207-08-9	0.13	ND		ND		ND		ND		1.3	14
benzo (a) pyrene	50-32-8	0.067	ND		ND		ND		ND		0.67	24
indeno (1,2,3-cd) pyrene	193-39-5	0.067	ND		ND		ND		ND		0.67	9.6
dibenz (a,h) anthracene	53-70-3	0.067	ND		ND		ND		ND		0.67	2.7
benzo (ghi) perylene	191-24-2	0.067	ND		ND		ND		ND		0.67	6.4
2-methylphenol	95-48-7	0.067	ND		ND		ND		ND		0.67	ND
2,2'-oxybis (1-chloropropane)	108-60-1	0.1	ND		ND		ND		ND		1	ND
4-methylphenol	106-44-5	0.1	ND		ND		ND		ND		1	ND
4-chloroaniline	106-47-8	0.1	ND		ND		ND		ND		1	ND
2-methylnaphthalene	91-57-6	0.033	ND		ND		ND		ND		3.3	220
2,4,5-trichlorophenol	95-95-4	0.067	ND		ND		ND		ND		0.67	ND
2-nitroaniline	88-74-4	0.067	ND		ND		ND		ND		0.67	ND
3-nitroaniline	99-09-2	0.067	ND		ND		ND		ND		0.67	ND
dibenzofuran	132-64-9	0.033	ND		ND		ND		ND		3.3	130
2,6-dinitrotoluene	606-20-2	0.067	ND		ND		ND		ND		0.67	ND
4-nitroaniline	100-01-6	0.1	ND		ND		ND		ND		1	ND
4,6-dinitro-2-methylphenol	534-52-1	0.17	ND		ND		ND		ND		1.7	ND
carbazole	86-74-8	0.033	ND		ND		ND		ND		3.3	52

J

Notes

Analytical methods: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-29/6-8 is a blind duplicate of sample

GEO/SB-05/4/9.

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Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

GEO/SB-07/5-7  
2680810  
3/19/97

GEO/SB-06/10-12  
2680809  
3/19/97

GEO/SB-A5A/17-19  
2680806  
3/18/97

GEO/SB-29/6-8 (a)  
2680808  
3/18/97

MP&A Sample ID  
Lab Sample Number  
Date Collected

Parameter	CAS Number	Standard MDL	Sample-Specific		Sample-Specific		Sample-Specific	
			MDL	Result	MDL	Result	MDL	Result
TCL Volatiles								
1,1-Dichloroethene	75-35-4	0.002	0.01	ND	0.01	0.01	ND	
Trichloroethene	79-01-6	0.001	0.005	ND	0.005	0.005	ND	
Benzene	71-43-2	0.001	0.005	0.002	0.008	0.005	0.014	J
Toluene	108-88-3	0.001	0.005	0.045	0.095	0.005	0.014	
Chlorobenzene	108-90-7	0.001	0.005	ND	ND	0.005	ND	
Xylenes (total)	1330-20-7	0.001	0.005	1.2	1.7	0.005	0.49	
Chloromethane	74-87-3	0.002	0.01	ND	ND	0.01	ND	
Bromomethane	74-83-9	0.003	0.015	ND	ND	0.015	ND	
Vinyl Chloride	75-01-4	0.002	0.01	ND	ND	0.01	ND	
Chloroethane	75-00-3	0.003	0.015	ND	ND	0.015	ND	
Methylene Chloride	75-09-2	0.002	0.01	ND	ND	0.01	ND	
1,1-Dichloroethane	75-34-3	0.001	0.005	ND	ND	0.005	ND	
Chloroform	67-66-3	0.001	0.005	ND	ND	0.005	ND	
1,2-Dichloroethane	107-06-2	0.002	0.01	ND	ND	0.01	ND	
1,1,1-Trichloroethane	71-55-6	0.001	0.005	ND	ND	0.005	ND	
Carbon Tetrachloride	56-23-5	0.001	0.005	ND	ND	0.005	ND	
Bromodichloromethane	75-27-4	0.002	0.01	ND	ND	0.01	ND	
1,1,2,2-Tetrachloroethane	79-34-5	0.001	0.005	ND	ND	0.005	ND	
1,2-Dichloropropane	78-87-5	0.003	0.015	ND	ND	0.015	ND	
trans-1,3-Dichloropropene	10061-02-6	0.001	0.005	ND	ND	0.005	ND	
Dibromochloromethane	124-48-1	0.001	0.005	ND	ND	0.005	ND	
1,1,2-Trichloroethane	79-00-5	0.002	0.01	ND	ND	0.01	ND	
cis-1,3-Dichloropropene	10061-01-5	0.001	0.005	ND	ND	0.005	ND	
Bromoform	75-25-2	0.001	0.005	ND	ND	0.005	ND	
Tetrachloroethene	127-18-4	0.001	0.005	ND	ND	0.005	ND	
Ethylbenzene	100-41-4	0.001	0.005	0.21	0.48	0.005	0.068	
Acetone	67-64-1	0.007	0.035	0.053	0.044	0.035	0.068	
Carbon Disulfide	75-15-0	0.003	0.015	ND	ND	0.015	ND	
2-Butanone	78-93-3	0.007	0.035	ND	ND	0.035	ND	
Vinyl Acetate	108-05-4	0.003	0.015	ND	ND	0.015	ND	
2-Hexanone	591-78-6	0.003	0.015	ND	ND	0.015	ND	
4-Methyl-2-pentanone	108-10-1	0.003	0.015	ND	ND	0.015	ND	
Styrene	100-42-5	0.001	0.005	ND	ND	0.005	ND	
trans-1,2-Dichloroethene	156-60-5	0.002	0.01	ND	ND	0.01	ND	
cis-1,2-Dichloroethene	156-59-2	0.002	0.01	ND	ND	0.01	ND	

Notes

Analytical methods: SW-846 8240B for volatiles;  
SW-846 8270B for semivolatiles.  
All results are reported on an "as received" basis in mg/kg.  
Last two numbers of MP&A Sample ID indicate sample depth interval.  
(a) Sample GEO/SB-29/6-8 is a blind duplicate of sample  
GEO/SB-05/409.  
J - Estimated value; in cases of ND, indicates MDL is estimated.  
R - Unusable result; analyte may or may not be present in the sample.

Table  
Summary of Subsurface Analytical Results  
Former Gulf States Crosscutting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	MP&A Sample ID Lab Sample Number Date Collected	Standard MDL	Sample- Specific MDL	Result	Notes	Sample- Specific MDL	Result	Notes	Sample- Specific MDL	Result	Notes
TCL Semivolatiles												
phenol	108-95-2		0.033	0.17	ND		0.17	ND		0.17	ND	
2-chlorophenol	95-57-8		0.033	0.17	ND		0.17	ND		0.17	ND	
1,4-dichlorobenzene	106-46-7		0.033	0.17	ND		0.17	ND		0.17	ND	
N-nitrosodi-n-propylamine	621-64-7		0.067	0.33	ND		0.33	ND		0.33	ND	
1,2,4-trichlorobenzene	120-82-1		0.033	0.17	ND		0.17	ND		0.17	ND	
4-chloro-3-methylphenol	59-50-7		0.067	0.33	ND		0.33	ND		0.33	ND	
acenaphthene	83-32-9		0.033	1.7	130		1.7	150		4.2	200	
4-nitrophenol	100-02-7		0.17	0.83	ND		0.83	ND		0.83	ND	
2,4-dinitrotoluene	121-14-2		0.067	0.33	ND		0.33	ND		0.33	ND	
87-86-5			0.17	0.83	ND		0.83	ND		0.83	ND	
pentachlorophenol	129-00-0		0.067	3.3	140		3.3	120		8.3	230	
pyrene	88-75-5		0.067	0.33	ND		0.33	ND		0.33	ND	
2-nitrophenol	105-67-9		0.067	0.33	1		0.33	1.3		0.33	ND	
2,4-dimethylphenol	120-83-2		0.033	0.17	ND		0.17	ND		0.17	ND	
2,4-dichlorophenol	88-06-2		0.067	0.33	ND		0.33	ND		0.33	ND	
2,4,6-trichlorophenol	51-28-5		0.17	0.83	ND		0.83	ND		0.83	ND	
2,4-dinitrophenol	111-44-4		0.067	0.33	ND		0.33	ND		0.33	ND	
bis (2-chloroethyl) ether	541-73-1		0.033	0.17	ND		0.17	ND		0.17	ND	
1,3-dichlorobenzene	95-50-1		0.033	0.17	ND		0.17	ND		0.17	ND	
1,2-dichlorobenzene	97-72-1		0.067	0.33	ND		0.33	ND		0.33	ND	
hexachloroethane	98-95-3		0.033	0.17	ND		0.17	ND		0.17	ND	
nitrobenzene	78-59-1		0.067	0.33	ND		0.33	ND		0.33	ND	
isophorone	111-91-1		0.033	0.17	ND		0.17	ND		0.17	ND	
bis (2-chloroethoxy) methane	91-20-3		0.033	3.3	380		3.3	420		4.2	210	
naphthalene	87-68-3		0.067	0.33	ND		0.33	ND		0.33	ND	
hexachlorobutadiene	77-47-4		0.17	0.83	ND		0.83	ND		0.83	ND	
hexachlorocyclopentadiene	91-58-7		0.033	0.17	ND		0.17	ND		0.17	ND	
2-chloronaphthalene	208-96-8		0.033	0.17	5.5		0.17	5.2		0.17	7.7	
acenaphthylene	131-11-3		0.033	0.17	ND		0.17	ND		0.17	ND	
dimethyl phthalate	86-73-7		0.033	1.7	140		1.7	160		4.2	250	
fluorene	7005-72-3		0.033	1.7	ND		1.7	ND		1.7	ND	
4-chlorophenyl phenyl ether	84-66-2		0.067	0.33	ND		0.33	ND		0.33	ND	
diethyl phthalate	86-30-6		0.067	0.33	ND		0.33	ND		0.33	ND	
N-nitrosodiphenylamine	101-55-3		0.067	0.33	ND		0.33	ND		0.33	ND	
4-bromophenyl phenyl ether			0.1	0.5	ND		0.5	ND		0.5	ND	
hexachlorobenzene	118-74-1		0.1	0.5	ND		0.5	ND		0.5	ND	

**Notes**

Analytical methods: SW-846 8240B for volatiles;

SW-846 8270B for semivolatiles.

All results are reported on an "as received" basis in mg/kg.

Last two numbers of MP&A Sample ID indicate sample depth interval.

(a) Sample GEO/SB-29/6-8 is a blind duplicate of sample

GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Urusable result; analyte may or may not be present in the sample.

Summary of Subsurface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	Standard MDL	MP&A Sample ID		GEO/SB-29/6-8 (a)		GEO/SB-05A/17-19		GEO/SB-06/10-12		GEO/SB-07/5-7	
			Lab Sample Number	Date Collected	Result	Notes	Result	Notes	Result	Notes	Result	Notes
phenanthrene	85-01-8	0.033	3.3	350	0.21	J	3.3	370	4.2	510		
anthracene	120-12-7	0.033	1.7	78	0.13	J	1.7	55	4.2	120		
di-n-butyl phthalate	84-74-2	0.033	0.17	ND	ND		0.17	ND	0.17	ND		
fluoranthene	206-44-0	0.033	1.7	180	0.16	J	1.7	170	4.2	250		
butyl benzyl phthalate	85-68-7	0.067	0.33	ND	ND		0.33	ND	0.33	ND		
benzo (a) anthracene	56-55-3	0.033	1.7	44	0.043	J	1.7	40	4.2	61		
chrysene	218-01-9	0.033	1.7	41	ND		1.7	33	4.2	52		
3,3'-dichlorobenzidine	91-94-1	0.13	0.67	ND	ND		0.67	ND	0.67	ND		
bis (2-ethylhexyl) phthalate	117-81-7	0.067	0.33	ND	ND		0.33	ND	0.33	ND		
di-n-octyl phthalate	117-84-0	0.067	0.33	ND	ND		0.33	ND	0.33	ND		
benzo (b) fluoranthene	205-99-2	0.067	0.33	25	0.67		0.33	18	8.3	33	J	
benzo (k) fluoranthene	207-08-9	0.13	0.67	8.7	ND		0.67	6.7	0.67	11		
benzo (a) pyrene	50-32-8	0.067	0.33	17	ND		0.33	13	0.33	22		
indeno (1,2,3-cd) pyrene	193-39-5	0.067	0.33	6.3	ND		0.33	4.1	0.33	8.7		
di-benz (a,h) anthracene	53-70-3	0.067	0.33	1.8	ND		0.33	1.4	0.33	3.4		
benzo (ghi) perylene	191-24-2	0.067	0.33	4.8	ND		0.33	2.4	0.33	6.4		
2-methylphenol	95-48-7	0.067	0.33	ND	ND		0.33	ND	0.33	ND		
2,2'-oxybis (1-chloropropane)	108-60-1	0.1	0.5	ND	ND		0.5	ND	0.5	ND		
4-methylphenol	106-44-5	0.1	0.5	ND	ND		0.5	ND	0.5	ND		
4-chloroaniline	106-47-8	0.1	0.5	ND	ND		0.5	ND	0.5	ND		
2-methylnaphthalene	91-57-6	0.033	1.7	180	ND		1.7	190	4.2	230		
2,4,5-trichlorophenol	95-95-4	0.067	0.33	ND	ND		0.33	ND	0.33	ND		
2-nitroaniline	88-74-4	0.067	0.33	ND	ND		0.33	ND	0.33	ND		
3-nitroaniline	99-09-2	0.067	0.33	ND	ND		0.33	ND	0.33	ND		
di-benzofuran	132-64-9	0.033	1.7	120	ND		1.7	130	4.2	180		
2,6-dinitrotoluene	606-20-2	0.067	0.33	ND	ND		0.33	ND	0.33	ND		
4-nitroaniline	100-01-6	0.1	0.5	ND	ND		0.5	ND	0.5	ND		
4,6-dinitro-2-methylphenol	534-52-1	0.17	0.83	ND	ND		0.83	ND	0.83	ND		
carbazole	86-74-8	0.033	1.7	48	0.056	J	1.7	38	4.2	27	J	

Notes  
Analytical methods: SW-846 8240B for volatiles;  
SW-846 8270B for semivolatiles.  
All results are reported on an "as received" basis in mg/kg.  
Last two numbers of MP&A Sample ID indicate sample depth interval.  
(a) Sample GEO/SB-29/6-8 is a blind duplicate of sample GEO/SB-05/409.

J - Estimated value; in cases of ND, indicates MDL is estimated.  
R - Unusable result; analyte may or may not be present in the sample.

Table  
**Summary of Subsurface Soil Analytical Results**  
**Former Gulf States Creosoting Site**  
**Hattiesburg, Mississippi**

MP&A Sample ID      GEO/SB-05/4-9  
 Lab Sample Number    2680805  
 Date Collected        3/18/97

Parameter	CAS Number	Sample-Specific MDL	Result	Notes
Pesticides/PCBs				
Gamma BHC - Lindane	58-89-9	0.0006	ND	
Heptachlor	76-44-8	0.001	0.01	
Aldrin	309-00-2	0.001	ND	
DDT	50-29-3	0.003	ND	
Dieldrin	60-57-1	0.002	ND	
Endrin	72-20-8	0.002	ND	
Methoxychlor	72-43-5	0.008	ND	
Alpha BHC	319-84-6	0.0004	ND	
Beta BHC	319-85-7	0.001	ND	
Delta BHC	319-86-8	0.0006	ND	
Heptachlor Epoxide	1024-57-3	0.0006	ND	
DDE	72-55-9	0.003	ND	
DDD	72-54-8	0.001	ND	
Toxaphene	8001-35-2	0.1	ND	
Endosulfan I	959-98-8	0.001	0.004	J
Endosulfan II	33213-65-9	0.004	ND	
Endosulfan Sulfate	1031-07-8	0.003	ND	
Endrin Aldehyde	7421-93-4	0.006	ND	
PCB-1016	12674-11-2	0.03	ND	
PCB-1221	11104-28-2	0.05	ND	
PCB-1232	11141-16-5	0.03	ND	
PCB-1242	53469-21-9	0.01	ND	
PCB-1248	12672-29-6	0.04	ND	
PCB-1254	11097-69-1	0.1	ND	
PCB-1260	11096-82-5	0.2	ND	
Endrin Ketone	53494-70-5	0.005	ND	
Alpha Chlordane	5103-71-9	0.001	ND	
Gamma Chlordane	5103-74-2	0.0002	ND	

**Notes**  
 Analytical methods: SW-846 8081.  
 All results are reported on an "as received" basis in mg/kg.  
 J - Estimated value.

Summary of DNAPL Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

MP&A Sample ID  
Lab Sample Number  
Date Collected

MW-1  
2677693  
3/13/97

MW-2  
2677694  
3/13/97

Parameter	CAS Number	Method Detection Limit	Result	Notes	Method Detection Limit	Result	Notes
TCL Volatiles							
1,1-Dichloroethene	75-35-4	13	ND	J	13	ND	J
Trichloroethene	79-01-6	6.3	ND	J	6.3	ND	J
Benzene	71-43-2	6.3	36	J	6.3	92	J
Toluene	108-88-3	6.3	190	J	6.3	350	J
Chlorobenzene	108-90-7	6.3	ND	J	6.3	ND	J
Xylene (total)	1330-20-7	6.3	1000	J	6.3	1100	J
Chloromethane	74-87-3	13	ND	J	13	ND	J
Bromomethane	74-83-9	19	ND	J	19	ND	J
Vinyl Chloride	75-01-4	13	ND	J	13	ND	J
Chloroethane	75-00-3	19	ND	J	19	ND	J
Methylene Chloride	75-09-2	13	ND	J	13	ND	J
1,1-Dichloroethane	75-34-3	6.3	ND	J	6.3	ND	J
Chloroform	67-66-3	6.3	ND	J	6.3	ND	J
1,2-Dichloroethane	107-06-2	13	ND	J	13	ND	J
1,1,1-Trichloroethane	71-55-6	6.3	ND	J	6.3	ND	J
Carbon Tetrachloride	56-23-5	6.3	ND	J	6.3	ND	J
Bromodichloromethane	75-27-4	13	ND	J	13	ND	J
1,1,2,2-Tetrachloroethane	79-34-5	6.3	ND	J	6.3	ND	J
1,2-Dichloropropane	78-87-5	19	ND	J	19	ND	J
trans-1,3-Dichloropropene	10061-02-6	6.3	ND	J	6.3	ND	J
Dibromochloromethane	124-48-1	6.3	ND	J	6.3	ND	J
1,1,2-Trichloroethane	79-00-5	13	ND	J	13	ND	J
cis-1,3-Dichloropropene	10061-01-5	6.3	ND	J	6.3	ND	J
Bromoform	75-25-2	6.3	ND	J	6.3	ND	J
Tetrachloroethene	127-18-4	6.3	180	J	6.3	230	J
Ethylbenzene	100-41-4	6.3	ND	J	6.3	ND	J
Acetone	67-64-1	44	ND	J	44	ND	J
Carbon Disulfide	75-15-0	19	ND	J	19	ND	J
2-Butanone	78-93-3	44	ND	J	44	ND	J
Vinyl Acetate	108-05-4	19	ND	J	19	ND	J
2-Hexanone	591-78-6	19	ND	J	19	ND	J
4-Methyl-2-pentanone	108-10-1	19	ND	J	19	ND	J
Styrene	100-42-5	6.3	120	J	6.3	240	J
trans-1,2-Dichloroethene	156-60-5	13	ND	J	13	ND	J
cis-1,2-Dichloroethene	156-59-2	13	ND	J	13	ND	J

Notes

Analytical methods: Volatiles by SW-846 8240B;

Semivolatiles by SW-846 8270B.

All results are reported on an "as received" basis in mg/l except moisture content, which is expressed as a percentage.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.

TAN  
Summary of DNAPL Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

MW-1  
Lab Sample Number  
Date Collected

2677693  
3/13/97

MW-2  
2677694  
3/13/97

Parameter	CAS Number	Method Detection		Method Detection		Result	Notes
		Limit	Result	Limit	Result		
TCL Semivolatiles							
phenol	108-95-2	5	ND	10	130	J	
2-chlorophenol	95-57-8	5	ND	5	ND	J	
1,4-dichlorobenzene	106-46-7	5	ND	5	ND	J	
N-nitrosodi-n-propylamine	621-64-7	10	ND	10	ND	J	
1,2,4-trichlorobenzene	120-82-1	5	ND	5	ND	J	
4-chloro-3-methylphenol	59-50-7	10	ND	10	ND	J	
acenaphthene	83-32-9	400	18000	800	17000	J	
4-nitrophenol	100-02-7	25	ND	25	ND	J	
2,4-dinitrotoluene	121-14-2	10	ND	10	ND	J	
pentachlorophenol	87-86-5	25	ND	25	ND	J	
pyrene	129-00-0	800	15000	1600	14000	J	
2-nitrophenol	88-75-5	10	ND	10	ND	J	
2,4-dimethylphenol	105-67-9	20	140	20	2900	J	
2,4-dichlorophenol	120-83-2	5	ND	5	ND	J	
2,4,6-trichlorophenol	88-06-2	10	ND	10	ND	J	
2,4-dinitrophenol	51-28-5	25	ND	25	ND	J	
bis (2-chloroethyl) ether	111-44-4	10	ND	10	ND	J	
1,3-dichlorobenzene	541-73-1	5	ND	5	ND	J	
1,2-dichlorobenzene	95-50-1	5	ND	5	ND	J	
hexachloroethane	67-72-1	10	ND	10	ND	J	
nitrobenzene	98-95-3	5	ND	5	ND	J	
isophorone	78-59-1	10	ND	10	ND	J	
bis (2-chloroethoxy) methane	111-91-1	5	ND	5	ND	J	
naphthalene	91-20-3	400	62000	800	96000	J	
hexachlorobutadiene	87-68-3	10	ND	10	ND	J	
hexachlorocyclopentadiene	77-47-4	25	ND	25	ND	J	
2-chloronaphthalene	91-58-7	5	ND	5	ND	J	
acenaphthylene	208-96-8	10	720	10	1100	J	
dimethyl phthalate	131-11-3	5	ND	5	ND	J	
fluorene	86-73-7	400	18000	800	18000	J	
4-chlorophenyl phenyl ether	7005-72-3	10	ND	10	ND	J	
diethyl phthalate	84-66-2	10	ND	10	ND	J	
N-nitrosodiphenylamine	86-30-6	10	ND	10	ND	J	
4-bromophenyl phenyl ether	101-55-3	15	ND	15	ND	J	
hexachlorobenzene	118-74-1	15	ND	15	ND	J	

**Notes**

Analytical methods: Volatiles by SW-846 8240B;

Semivolatiles by SW-846 8270B.

All results are reported on an "as received" basis in mg/l except moisture content, which is expressed as a percentage.

J - Estimated value; in cases of ND, indicates MDL is estimated.

R - Unusable result; analyte may or may not be present in the sample.



Summary of DNAPL Analytical Results  
Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

MP&A Sample ID Lab Sample Number Date Collected	MW-1 2677693 3/13/97	MW-2 2677694 3/13/97
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Parameter	CAS Number	Method Detection Limit	Result	Notes	Method Detection Limit	Result	Notes
phenanthrene	85-01-8	400	41000	J	800	47000	J
anthracene	120-12-7	400	4600	J	800	6500	J
di-n-butyl phthalate	84-74-2	5	ND	J	5	ND	J
fluoranthene	206-44-0	400	21000	J	800	19000	J
butyl benzyl phthalate	85-68-7	10	ND	J	10	ND	J
benzo (a) anthracene	56-55-3	400	4600	J	800	3900	J
chrysene	218-01-9	400	3900	J	800	3100	J
3,3'-dichlorobenzidine	91-94-1	20	ND	J	20	ND	J
bis (2-ethylhexyl) phthalate	117-81-7	10	ND	J	10	ND	J
di-n-octyl phthalate	117-84-0	10	ND	J	10	ND	J
benzo (b) fluoranthene	205-99-2	800	2100	J	1600	1800	J
benzo (k) fluoranthene	207-08-9	40	1000	J	40	850	J
benzo (a) pyrene	50-32-8	800	700	J	20	740	J
indeno (1,2,3-cd) pyrene	193-39-5	20	180	J	20	210	J
dibenz (a,h) anthracene	53-70-3	20	180	J	20	530	J
benzo (ghi) perylene	191-24-2	20	490	J	20	400	J
2-methylphenol	95-48-7	10	ND	J	15	ND	J
2,2'-oxybis (1-chloropropane)	108-60-1	15	ND	J	15	ND	J
4-methylphenol	106-44-5	15	ND	J	30	810	J
4-chloroaniline	106-47-8	15	ND	J	15	ND	J
2-methylnaphthalene	91-57-6	400	28000	J	800	27000	J
2,4,5-trichlorophenol	95-95-4	10	ND	J	10	ND	J
2-nitroaniline	88-74-4	10	ND	J	10	ND	J
3-nitroaniline	99-09-2	10	ND	J	10	ND	J
dibenzofuran	132-64-9	400	15000	J	800	15000	J
2,6-dinitrotoluene	606-20-2	10	ND	J	10	ND	J
4-nitroaniline	100-01-6	15	ND	J	15	ND	J
4,6-dinitro-2-methylphenol	534-52-1	25	ND	R	25	ND	R
carbazole	86-74-8	400	2300	J	800	3000	J
<b>Moisture Content</b>		0.08	48.8		0.08	45.7	

**Notes**  
 Analytical methods: Volatiles by SW-846 8240B;  
 Semi-volatiles by SW-846 8270B.  
 All results are reported on an "as received" basis in mg/l except moisture content, which is expressed as a percentage.  
 J - Estimated value; in cases of ND, indicates MDL is estimated.  
 R - Unusable result; analyte may or may not be present in the sample.

Summary of Ground Water Analytical Results  
Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	MP & A Sample ID Lab Sample Number Date Collected	MW-03 2677529 3/12/97	MW-04 2677530 3/12/97	MW-04 dup (a) 2677531 3/12/97	MW-05 2677535 3/12/97	MW-01 2677536 3/12/97
		Method Detection Limit	Result	Result	Result	Result	Result
			Notes	Notes	Notes	Notes	Notes
Volatiles							
2-Butanone	78-93-3	0.003	ND	ND	NA	ND	ND
Bromomethane	74-83-9	0.003	ND	ND	NA	ND	ND
Chloromethane	74-87-3	0.003	ND	ND	NA	ND	ND
Vinyl Chloride	75-01-4	0.002	ND	ND	NA	ND	ND
Chloroethane	75-00-3	0.003	ND	ND	NA	ND	ND
Methylene Chloride	75-09-2	0.002	ND	ND	NA	ND	ND
Acetone	67-64-1	0.006	ND	ND	NA	ND	ND
Carbon Disulfide	75-15-0	0.003	0.023	0.027	NA	ND	0.057
1,1-Dichloroethene	75-35-4	0.001	ND	ND	NA	ND	ND
1,1-Dichloroethane	75-34-3	0.002	ND	ND	NA	ND	ND
Chloroform	67-66-3	0.001	ND	ND	NA	ND	0.006
1,2-Dichloroethane	107-06-2	0.002	ND	ND	NA	ND	ND
1,1,1-Trichloroethane	71-55-6	0.001	ND	ND	NA	ND	ND
Carbon Tetrachloride	56-23-5	0.001	ND	ND	NA	ND	ND
Vinyl Acetate	108-05-4	0.002	ND	ND	NA	ND	ND
Bromodichloromethane	75-27-4	0.001	R	ND	NA	ND	R
1,2-Dichloropropane	78-87-5	0.001	ND	ND	NA	ND	ND
trans-1,3-Dichloropropene	10061-02-6	0.001	ND	ND	NA	ND	ND
Trichloroethene	79-01-6	0.001	ND	ND	NA	ND	ND
Dibromochloromethane	124-48-1	0.002	ND	ND	NA	ND	ND
1,1,2-Trichloroethane	79-00-5	0.002	ND	ND	NA	ND	ND
Benzene	71-43-2	0.001	ND	ND	NA	ND	ND
cis-1,3-Dichloropropene	10061-01-5	0.001	ND	ND	NA	ND	ND
Bromoform	75-25-2	0.001	ND	ND	NA	ND	ND
2-Hexanone	591-78-6	0.007	ND	ND	NA	ND	ND
4-Methyl-2-pentanone	108-10-1	0.005	ND	ND	NA	ND	ND
Tetrachloroethene	127-18-4	0.001	ND	ND	NA	ND	ND
1,1,2,2-Tetrachloroethane	79-34-5	0.002	ND	ND	NA	ND	ND
Toluene	108-88-3	0.002	ND	ND	NA	ND	ND
Chlorobenzene	108-90-7	0.001	ND	ND	NA	ND	ND

Notes

Analytical methods: Volatiles by SW-846 8240B;  
Semi-volatiles by SW-846 8270B; Pesticides PCBs by SW-846 808 I;  
Inorganics by appropriate SW-846 methods  
All results are reported in mg/l.  
(a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.  
(b) Sample MW-23 is a blind duplicate of sample MW-03.  
J - Estimated value; in cases of ND, indicates MDL is estimated.  
R - Unusable result; analyte may or may not be present in the sample.

Summary of Ground Water Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	MP & A Sample ID		MW-03		MW-04		MW-04 dup (a)		MW-05		MW-01	
			Lab Sample Number	Date Collected	Result	Notes	Result	Notes	Result	Notes	Result	Notes	Result	Notes
Ethylbenzene	100-41-4	0.002	ND		ND		ND		NA		ND		ND	
Styrene	100-42-5	0.001	ND		ND		ND		NA		ND		ND	
Xylene (total)	1330-20-7	0.001	ND		ND		ND		NA		ND		ND	
trans-1,2-Dichloroethene	156-60-5	0.002	ND		ND		ND		NA		ND		ND	
cis-1,2-Dichloroethene	156-59-2	0.002	ND		ND		ND		NA		ND		ND	
<b>Metals</b>														
Aluminum	7429-90-5	0.057	11.1		16.6		19.8		19.8		47.8		9.03	
Antimony	7440-36-0	0.015	ND	R	ND		ND		ND		ND		ND	R
Barium	7440-39-3	0.0022	0.25		0.49		0.51		0.61		0.61		0.27	
Beryllium	7440-41-7	0.0013	0.0043	J	0.0042		0.0022	J	0.0022	J	0.0071		0.0017	J
Cadmium	7440-43-9	0.0027	ND		ND		ND		ND		ND		ND	
Calcium	7440-70-2	0.03	17.7	J	42.6	J	42.9	J	19.2	J	19.2	J	12.7	J
Chromium	7440-47-3	0.0043	0.028	J	0.0185	J	0.0217	J	0.071	J	0.042		0.042	
Cobalt	7440-48-4	0.0055	0.0132	J	0.0156	J	0.0177	J	0.0403	J	0.0403		0.0121	J
Copper	7440-50-8	0.0038	ND		ND		0.0217	J	0.047		0.047		ND	
Iron	7439-89-6	0.0059	26.3	J	21.9	J	27.1	J	79.3	J	79.3	J	13.2	J
Magnesium	7439-95-4	0.024	4.67		20.6		21.5		10.3		10.3		4.18	
Manganese	7439-96-5	0.0029	0.5	J	1.22	J	1.26	J	1.09	J	1.09	J	0.343	J
Nickel	7440-02-0	0.0054	0.0163	J	0.0305	J	0.035	J	0.0407	J	0.0407		0.0124	J
Potassium	7440-09-7	0.15	2.92	J	5.67		6.1		5.64		5.64		2.21	
Silver	7440-22-4	0.0036	ND		ND		ND		ND		ND		ND	
Sodium	7440-23-5	0.2	19.5		53.4		59.4		19.6		19.6		15.5	
Vanadium	7440-62-2	0.007	0.047		0.048		0.054		0.109		0.109		0.051	
Zinc	7440-66-6	0.012	ND		0.085		0.089		0.135		0.135		0.075	
Thallium TR	7440-28-0	0.0045	ND		ND		ND		ND		ND		ND	
Arsenic TR	7440-38-2	0.0027	0.067		0.012		0.014		0.057		0.057		0.047	
Selenium TR	7782-49-2	0.0027	ND		ND		ND		ND		ND		0.0044	J
Lead TR	7439-92-1	0.002	0.0207		0.0262		0.0301		0.0669		0.0669		ND	
Mercury	7439-97-6	0.000043	ND		ND		0.000093	J	0.000093		ND		0.00023	

Notes

- Analytical methods: Volatiles by SW-846 8240B; Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081; Inorganics by appropriate SW-846 methods
- All results are reported in mg/l.
- (a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.
- (b) Sample MW-23 is a blind duplicate of sample MW-03.
- J - Estimated value; in cases of ND, indicates MDL is estimated.
- R - Unassessable result; analyte may or may not be present in the sample.

**Summary of Ground Water Analytical Results**  
**Former Gulf States Creosoting Site**  
**Hattiesburg, Mississippi**

Parameter	CAS Number	Method Detection Limit	MW-03 2677529 3/12/97	MW-04 2677530 3/12/97	MW-04 dup (a) 2677531 3/12/97	MW-05 2677535 3/12/97	MW-01 2677536 3/12/97
<b>Pesticides/PCBs</b>							
Endrin Ketone	53494-70-5	0.000004	J	ND	NA	ND	ND
Alpha Chlordane	5103-71-9	0.000001	J	ND	NA	ND	ND
Gamma Chlordane	5103-74-2	0.000001	J	ND	NA	ND	ND
Alpha BHC	319-84-6	0.000001	J	ND	NA	ND	ND
Beta BHC	319-85-7	0.000001	J	ND	NA	ND	ND
Gamma BHC - Lindane	58-89-9	0.000001	J	ND	NA	0.000002	0.000002
Delta BHC	319-86-8	0.000003	J	ND	NA	ND	ND
Heptachlor	76-44-8	0.000002	J	ND	NA	ND	ND
Aldrin	309-00-2	0.000006	J	ND	NA	ND	ND
Heptachlor Epoxide	1024-57-3	0.000001	J	ND	NA	0.000002	0.000002
DDE	72-55-9	0.000001	J	ND	NA	ND	ND
DDD	72-54-8	0.000005	J	ND	NA	ND	ND
DDT	50-29-3	0.000009	J	ND	NA	ND	ND
Dieldrin	60-57-1	0.000001	J	ND	NA	ND	ND
Endrin	72-20-8	0.000007	J	ND	NA	ND	ND
Toxaphene	8001-35-2	0.0004	J	ND	NA	ND	ND
Endosulfan II	33213-65-9	0.000005	J	ND	NA	ND	ND
Endosulfan I	959-98-8	0.000002	J	ND	NA	ND	ND
Endosulfan Sulfate	1031-07-8	0.000003	J	ND	NA	ND	ND
Endrin Aldehyde	7421-93-4	0.000005	J	ND	NA	ND	ND
PCB-1016	12674-11-2	0.00004	J	ND	NA	ND	ND
PCB-1221	11104-28-2	0.0001	J	ND	NA	ND	ND
PCB-1232	11141-16-5	0.00005	J	ND	NA	ND	ND
PCB-1242	53469-21-9	0.0001	J	ND	NA	ND	ND
PCB-1248	12672-29-6	0.00004	J	ND	NA	ND	ND
PCB-1254	11097-69-1	0.0001	J	ND	NA	ND	ND
PCB-1260	11096-82-5	0.00004	J	ND	NA	ND	ND
Methoxychlor	72-43-5	0.00002	J	ND	NA	ND	ND

**Notes**  
 Analytical methods: Volatiles by SW-846 8240B;  
 Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;  
 Inorganics by appropriate SW-846 methods  
 All results are reported in mg/l.  
 (a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.  
 (b) Sample MW-23 is a blind duplicate of sample MW-03.  
 J - Estimated value; in cases of ND, indicates MDL is estimated.  
 R - Unusable result; analyte may or may not be present in the sample.

**Summary of Ground Water Analytical Results**  
**Former Gulf States Creosoting Site**  
**Hattiesburg, Mississippi**

Parameter	CAS Number	Method Detection Limit	MW-03 Lab Sample Number Date Collected	MW-04 2677530 3/12/97	MW-04 dup (a) 2677531 3/12/97	MW-05 2677535 3/12/97	MW-01 2677536 3/12/97	Result	Notes	Result	Notes	Result	Notes	Result	Notes
Semivolatiles															
acenaphthene	83-32-9	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
acenaphthylene	208-96-8	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
anthracene	120-12-7	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
benzo (a) anthracene	56-55-3	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
benzo (b) fluoranthene	205-99-2	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
benzo (k) fluoranthene	207-08-9	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
benzo (ghi) perylene	191-24-2	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
benzo (a) pyrene	50-32-8	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
bis (2-chloroethoxy) methane	111-91-1	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
bis (2-chloroethyl) ether	111-44-4	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
bis (2-ethylhexyl) phthalate	117-81-7	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
4-bromophenyl phenyl ether	101-55-3	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
butyl benzyl phthalate	85-68-7	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
4-chloroaniline	106-47-8	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
4-chloro-3-methylphenol	59-50-7	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
2-chloronaphthalene	91-58-7	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
2-chlorophenol	95-57-8	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
4-chlorophenyl phenyl ether	7005-72-3	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
chrysene	218-01-9	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
dibenzofuran	132-64-9	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
di-n-butyl phthalate	84-74-2	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
dibenz (a,b) anthracene	53-70-3	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
1,2-dichlorobenzene	95-50-1	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
1,3-dichlorobenzene	541-73-1	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
1,4-dichlorobenzene	106-46-7	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
3,3'-dichlorobenzidine	91-94-1	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
2,4-dichlorophenol	120-83-2	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
diethyl phthalate	84-66-2	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
2,4-dimethylphenol	105-67-9	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	
dimethyl phthalate	131-11-3	0.003	ND	ND	NA	ND	ND	ND		ND		ND		ND	
2,4-dinitrophenol	51-28-5	0.005	ND	ND	NA	ND	ND	ND		ND		ND		ND	
2,4-dinitrotoluene	121-14-2	0.002	ND	ND	NA	ND	ND	ND		ND		ND		ND	
2,6-dinitrotoluene	606-20-2	0.001	ND	ND	NA	ND	ND	ND		ND		ND		ND	

**Notes**

- Analytical methods: Volatiles by SW-846 8240B;
- Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;
- Inorganics by appropriate SW-846 methods
- All results are reported in mg/l.
- (a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.
- (b) Sample MW-23 is a blind duplicate of sample MW-03.
- J - Estimated value; in cases of ND, indicates MDL is estimated.
- R - Unusable result; analyte may or may not be present in the sample.

Summary of Ground Water Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	MP&A Sample ID		MW-03		MW-04		MW-04 dup (a)		MW-05		MW-01	
			Lab Sample Number	Date Collected	2677529	3/12/97	2677530	3/12/97	2677531	3/12/97	2677535	3/12/97	2677536	3/12/97
di-n-octyl phthalate	117-84-0	0.002	ND		ND		ND		NA		ND		ND	
fluoranthene	206-44-0	0.001	ND		ND		ND		NA		ND		ND	
fluorene	86-73-7	0.001	ND		ND		ND		NA		ND		ND	
hexachlorobenzene	118-74-1	0.001	ND		ND		ND		NA		ND		ND	
hexachlorobutadiene	87-68-3	0.001	ND		ND		ND		NA		ND		ND	
hexachlorocyclopentadiene	77-47-4	0.003	ND		ND		ND		NA		ND		ND	
hexachloroethane	67-72-1	0.002	ND		ND		ND		NA		ND		ND	
indeno (1,2,3-cd) pyrene	193-39-5	0.002	ND		ND		ND		NA		ND		ND	
isophorone	78-59-1	0.001	ND		ND		ND		NA		ND		ND	
2-methylnaphthalene	91-57-6	0.001	ND		ND		ND		NA		ND		ND	
naphthalene	91-20-3	0.001	ND		ND		ND		NA		ND		ND	
2-nitroaniline	88-74-4	0.001	ND		ND		ND		NA		ND		ND	
3-nitroaniline	99-09-2	0.001	ND		ND		ND		NA		ND		ND	
4-nitroaniline	100-01-6	0.002	ND		ND		ND		NA		ND		ND	
nitrobenzene	98-95-3	0.001	ND		ND		ND		NA		ND		ND	
2-nitrophenol	88-75-5	0.002	ND		ND		ND		NA		ND		ND	
4-nitrophenol	100-02-7	0.005	ND		ND		ND		NA		ND		ND	
N-nitrosodiphenylamine	86-30-6	0.002	ND		ND		ND		NA		ND		ND	
N-nitrosodi-n-propylamine	621-64-7	0.002	ND		ND		ND		NA		ND		ND	
pentachlorophenol	87-86-5	0.001	ND		ND		ND		NA		ND		ND	
phenanthrene	85-01-8	0.001	0.002		ND		ND		NA		ND		ND	
phenol	108-95-2	0.001	ND		ND		ND		NA		ND		ND	
pyrene	129-00-0	0.001	ND		ND		ND		NA		ND		ND	
1,2,4-trichlorobenzene	120-82-1	0.001	ND		ND		ND		NA		ND		ND	
2,4,5-trichlorophenol	95-93-4	0.001	ND		ND		ND		NA		ND		ND	
2,4,6-trichlorophenol	88-06-2	0.001	ND		ND		ND		NA		ND		ND	
2-methylphenol	95-48-7	0.002	ND		ND		ND		NA		ND		ND	
2,2'-oxybis (1-chloropropane)	108-60-1	0.002	ND		ND		ND		NA		ND		ND	
4-methylphenol	106-44-5	0.002	ND		ND		ND		NA		ND		ND	
4,6-dinitro-2-methylphenol	534-52-1	0.005	ND		ND		ND		NA		ND		ND	
carbazole	86-74-8	0.001	ND		ND		ND		NA		ND		ND	
Total cyanide	57-12-5	0.000004	ND		ND		ND		ND		ND		ND	

Notes

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- All results are reported in mg/l.
- (a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.
- (b) Sample MW-25 is a blind duplicate of sample MW-03.
- J - Estimated value; in cases of ND, indicates MDL is estimated.
- R - Unusable result; analyte may or may not be present in the sample.

Summary of Ground Water Analytical Results

Former Gulf States Crosstoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	MP & A Sample ID Lab Sample Number Date Collected	Method Detection Limit	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes
Volatiles									
2-Butanone	78-93-3	MW-3 2677537 3/12/97	0.003	0.06	ND		0.06	ND	
Bromomethane	74-83-9	MW-23 (b) 2677538 3/12/97	0.003	0.06	ND		0.06	ND	
Chloromethane	74-87-3		0.003	0.06	ND		0.06	ND	
Vinyl Chloride	75-01-4		0.002	0.04	ND		0.04	ND	
Chloroethane	75-00-3		0.003	0.06	ND		0.06	ND	
Methylene Chloride	75-09-2		0.002	0.04	ND		0.04	ND	
Acetone	67-64-1		0.006	0.12	ND		0.12	ND	
Carbon Disulfide	75-15-0		0.003	0.06	ND		0.06	ND	
1,1-Dichloroethene	75-35-4		0.001	0.02	ND		0.02	ND	
1,1-Dichloroethane	75-34-3		0.002	0.04	ND		0.04	ND	
Chloroform	67-66-3		0.001	0.02	ND		0.02	ND	
1,2-Dichloroethane	107-06-2		0.002	0.04	ND		0.04	ND	
1,1,1-Trichloroethane	71-55-6		0.001	0.02	ND		0.02	ND	
Carbon Tetrachloride	56-23-5		0.001	0.02	ND		0.02	ND	
Vinyl Acetate	108-05-4		0.002	0.04	ND		0.04	ND	
Bromodichloromethane	75-27-4		0.001	0.02	ND		0.02	ND	
1,2-Dichloropropane	78-87-5		0.001	0.02	ND		0.02	ND	
trans-1,3-Dichloropropene	10061-02-6		0.001	0.02	ND		0.02	ND	
Trichloroethene	79-01-6		0.001	0.02	ND		0.02	ND	
Dibromochloromethane	124-48-1		0.002	0.04	ND		0.04	ND	
1,1,2-Trichloroethane	79-00-5		0.002	0.04	ND		0.04	ND	
Benzene	71-43-2		0.001	0.02	0.81		0.02	0.79	
cis-1,3-Dichloropropene	10061-01-5		0.001	0.02	ND		0.02	ND	
Bromoform	75-25-2		0.001	0.02	ND		0.02	ND	
2-Hexanone	591-78-6		0.007	0.14	ND		0.14	ND	
4-Methyl-2-pentanone	108-10-1		0.005	0.1	ND		0.1	ND	
Tetrachloroethene	127-18-4		0.001	0.02	ND		0.02	ND	
1,1,2,2-Tetrachloroethane	79-34-5		0.002	0.04	ND		0.04	ND	
Toluene	108-88-3		0.002	0.04	0.44		0.04	0.43	
Chlorobenzene	108-90-7		0.001	0.02	ND		0.02	ND	

Notes

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Summary of Ground Water Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	MP&A Sample ID		MW-23 (b)		MW-4		
			Lab Sample Number	Date Collected	Lab Sample Number	Date Collected	Lab Sample Number	Date Collected	
Ethylbenzene	100-41-4	0.002	0.04	0.062	J	0.06	ND	ND	
Styrene	100-42-5	0.001	0.02	0.085	J	0.077	ND	ND	
Xylene (total)	1330-20-7	0.001	0.02	0.38	J	0.37	ND	ND	
trans-1,2-Dichloroethene	156-60-5	0.002	0.04	ND		ND	ND	ND	
cis-1,2-Dichloroethene	156-59-2	0.002	0.04	ND		ND	ND	ND	
<b>Metals</b>									
Aluminum	7429-90-5	0.057		7.32	J	14.8	1.77	1.77	
Antimony	7440-36-0	0.015		ND	R	ND	ND	R	
Barium	7440-39-3	0.0022		0.11	J	0.16	0.0917	0.0917	
Beryllium	7440-41-7	0.0013		0.0037	J	0.0026	ND	ND	
Cadmium	7440-43-9	0.0027		ND	J	ND	ND	ND	
Calcium	7440-70-2	0.03		2.84	J	3.67	5.85	5.85	
Chromium	7440-47-3	0.0043		0.0197	J	0.038	ND	ND	
Cobalt	7440-48-4	0.0055		ND	J	0.0086	ND	ND	
Copper	7440-50-8	0.0038		ND	J	ND	ND	ND	
Iron	7439-89-6	0.0059		9.84	J	15.3	2.3	2.3	
Magnesium	7439-95-4	0.024		1.8	J	2.39	1.93	1.93	
Manganese	7439-96-5	0.0029		0.061	J	0.088	0.128	0.128	
Nickel	7440-02-0	0.0054		0.0068	J	0.0112	ND	ND	
Potassium	7440-09-7	0.15		1.15	J	1.59	1.73	1.73	
Silver	7440-22-4	0.0036		ND	J	ND	ND	ND	
Sodium	7440-23-5	0.2		13.7	J	14.2	7.18	7.18	
Vanadium	7440-62-2	0.007		0.035	J	0.063	ND	ND	
Zinc	7440-66-6	0.012		ND	J	0.093	ND	ND	
Thallium TR	7440-28-0	0.0045		ND		ND	0.011	0.011	
Arsenic TR	7440-38-2	0.0027		0.068		0.07	0.025	0.025	
Selenium TR	7782-49-2	0.0027		ND		ND	ND	ND	
Lead TR	7439-92-1	0.002		ND		0.0225	ND	ND	
Mercury	7439-97-6	0.000043		ND	J	0.00026	ND	ND	

**Notes**  
 Analytical methods: Volatiles by SW-846 8240B;  
 Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;  
 Inorganics by appropriate SW-846 methods  
 All results are reported in mg/l.  
 (a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.  
 (b) Sample MW-23 is a blind duplicate of sample MW-03.  
 J - Estimated value; in cases of ND, indicates MDL is estimated.  
 R - Unusable result; analyte may or may not be present in the sample.



Summary of Ground Water Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	MP&A Sample ID Lab Sample Number Date Collected	MW-3 2677537 3/12/97	MW-23 (b) 2677538 3/12/97	MW-4 2677539 3/12/97
				Sample Specific MDL	Sample Specific MDL	Sample Specific MDL
				Result	Result	Result
				Notes	Notes	Notes
Pesticides/PCBs						
Endrin Ketone	53494-70-5	0.000004		ND	ND	ND
Alpha Chlordane	5103-71-9	0.000001		ND	ND	ND
Gamma Chlordane	5103-74-2	0.000001		ND	ND	ND
Alpha BHC	319-84-6	0.000001		ND	ND	ND
Beta BHC	319-85-7	0.000001		ND	ND	ND
Gamma BHC - Lindane	58-89-9	0.000001		ND	ND	ND
Delta BHC	319-86-8	0.000003		ND	ND	ND
Heptachlor	76-44-8	0.000002		ND	ND	ND
Aldrin	309-00-2	0.000006		ND	ND	ND
Heptachlor Epoxide	1024-57-3	0.000001		ND	ND	ND
DDE	72-55-9	0.000001		ND	0.00002	ND
DDD	72-54-8	0.000005		ND	ND	ND
DDT	50-29-3	0.000009		ND	0.00001	ND
Dieldrin	60-57-1	0.000001		ND	ND	ND
Endrin	72-20-8	0.000007		ND	ND	ND
Toxaphene	8001-35-2	0.0004		0.00004	ND	ND
Endosulfan II	33213-65-9	0.000005		ND	ND	ND
Endosulfan I	959-98-8	0.000002		ND	0.000009	ND
Endosulfan Sulfate	1031-07-8	0.000003		ND	ND	ND
Endrin Aldehyde	7421-93-4	0.000005		ND	0.000024	ND
PCB-1016	12674-11-2	0.00004		ND	0.000024	ND
PCB-1221	11104-28-2	0.0001		ND	ND	ND
PCB-1232	11141-16-5	0.00005		ND	ND	ND
PCB-1242	53469-21-9	0.0001		ND	ND	ND
PCB-1248	12672-29-6	0.00004		ND	ND	ND
PCB-1254	11097-69-1	0.0001		ND	ND	ND
PCB-1260	11096-82-5	0.00004		ND	ND	ND
Methoxychlor	72-43-5	0.00002		ND	ND	ND

**Notes**  
 Analytical methods: Volatiles by SW-846 8240B;  
 Semivolatiles by SW-846 8270B; Pesticides PCBs by SW-846 8081;  
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 All results are reported in mg/l.  
 (a) Sample MW-04 dup is a laboratory duplicate of sample MW-04 and was analyzed for metals only.  
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Table  
**Summary of Ground Water Analytical Results**  
**Former Gulf States Creosoting Site**  
**Hattiesburg, Mississippi**

Parameter	CAS Number	Method Detection Limit	MP&A Sample ID Lab Sample Number Date Collected	MW-3 2677537 3/12/97	MW-23 (b) 2677538 3/12/97	MW-4 2677539 3/12/97
				Result	Result	Result
				Sample Specific MDL	Sample Specific MDL	Sample Specific MDL
				Notes	Notes	Notes
Semivolatiles						
acenaphthene	83-32-9	0.001		0.3	0.31	ND
acenaphthylene	208-96-8	0.001		0.019	0.02	ND
anthracene	120-12-7	0.001		0.02	0.017	ND
benzo (a) anthracene	56-55-3	0.001		0.007	0.004	ND
benzo (b) fluoranthene	205-99-2	0.002		0.005	0.003	ND
benzo (k) fluoranthene	207-08-9	0.002		ND	ND	ND
benzo (ghi) perylene	191-24-2	0.002		ND	ND	ND
benzo (a) pyrene	50-32-8	0.002		0.003	ND	ND
bis (2-chloroethoxy) methane	111-91-1	0.001		ND	ND	ND
bis (2-chloroethyl) ether	111-44-4	0.001		ND	ND	ND
bis (2-ethylhexyl) phthalate	117-81-7	0.002		0.007	0.004	0.019
4-bromophenyl phenyl ether	101-55-3	0.002		ND	ND	ND
butyl benzyl phthalate	85-68-7	0.002		ND	ND	ND
4-chloroaniline	106-47-8	0.002		ND	ND	ND
4-chloro-3-methylphenol	59-50-7	0.002		ND	ND	ND
2-chloronaphthalene	91-58-7	0.001		ND	ND	ND
2-chlorophenol	95-57-8	0.001		ND	ND	ND
4-chlorophenyl phenyl ether	7005-72-3	0.002		ND	ND	ND
chrysene	218-01-9	0.001		0.007	0.004	0.004
dibenzofuran	132-64-9	0.001		0.15	0.15	ND
di-n-butyl phthalate	84-74-2	0.001		ND	ND	ND
dibenz (a,h) anthracene	53-70-3	0.002		ND	ND	ND
1,2-dichlorobenzene	95-50-1	0.001		ND	ND	ND
1,3-dichlorobenzene	541-73-1	0.001		ND	ND	ND
1,4-dichlorobenzene	106-46-7	0.001		ND	ND	ND
3,3'-dichlorobenzidine	91-94-1	0.002		ND	ND	ND
2,4-dichlorophenol	120-83-2	0.002		ND	ND	ND
diethyl phthalate	84-66-2	0.002		ND	ND	ND
2,4-dimethylphenol	105-67-9	0.001		4.5	5.2	ND
dimethyl phthalate	131-11-3	0.003		ND	ND	ND
2,4-dinitrophenol	51-28-5	0.005		ND	ND	ND
2,4-dinitrotoluene	121-14-2	0.002		ND	ND	ND
2,6-dinitrotoluene	606-20-2	0.001		ND	ND	ND

**Notes**  
Analytical methods: Volatiles by SW-846 8240B;  
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Table  
**Summary of Ground Water Analytical Results**  
**Former Gulf States Creosoting Site**  
**Hattiesburg, Mississippi**

Parameter	CAS Number	MP&A Sample ID Lab Sample Number Date Collected	Method Detection Limit	Sample Specific MDL	Result	Notes	Sample Specific MDL	Result	Notes
di-n-octyl phthalate	117-84-0	MW-3 2677537 3/12/97	0.002		ND			ND	
fluoranthene	206-44-0	MW-23 (b) 2677538 3/12/97	0.001		0.034			ND	
fluorene	86-73-7		0.001		0.14			0.02	
hexachlorobenzene	118-74-1		0.001		ND	J		0.14	
hexachlorobutadiene	87-68-3		0.001		ND			ND	
hexachlorocyclopentadiene	77-47-4		0.003		ND			ND	
hexachloroethane	67-72-1		0.002		ND			ND	
indeno (1,2,3-cd) pyrene	193-39-5		0.002		ND	J		ND	
isophorone	78-59-1		0.001		1.1	J		0.99	
2-methylnaphthalene	91-57-6		0.001		5.8	J		1.1	
naphthalene	91-20-3		0.001		ND			0.018	
2-nitroaniline	88-74-4		0.001		ND			ND	
3-nitroaniline	99-09-2		0.001		ND			ND	
4-nitroaniline	100-01-6		0.002		ND	J		ND	
nitrobenzene	98-95-3		0.001		ND	J		ND	
2-nitrophenol	88-75-5		0.002		ND			ND	
4-nitrophenol	100-02-7		0.005		ND			ND	
N-nitrosodiphenylamine	86-30-6		0.002		ND			ND	
N-nitrosodi-n-propylamine	621-64-7		0.002		ND			ND	
pentachlorophenol	87-86-5		0.001		ND			ND	
phenanthrene	85-01-8		0.001		0.13	J		0.12	
phenol	108-95-2		0.001		0.32			0.36	
pyrene	129-00-0		0.001		0.023			0.014	
1,2,4-trichlorobenzene	120-82-1		0.001		ND	J		ND	
2,4,5-trichlorophenol	95-95-4		0.001		ND			ND	
2,4,6-trichlorophenol	88-06-2		0.001		ND			ND	
2-methylphenol	95-48-7		0.002		1.3			1.2	
2,2'-oxybis (1-chloropropane)	108-60-1		0.002		ND			ND	
4-methylphenol	106-44-5		0.002		1.8			2	
4,6-dinitro-2-methylphenol	534-52-1		0.005		ND	R		ND	R
carbazole	86-74-8		0.001		0.38	J		0.39	
Total cyanide	57-12-5		0.000004		ND			ND	

**Notes**  
Analytical methods: Volatiles by SW-846 8240B;  
Semi-volatiles by SW-846 8270B; Pesticides PCBs by SW-846 808 I;  
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Summary of Surface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	MP&A Sample ID Lab Sample Number Date Collected	SS-11 2677435 3/13/97	SS-6 2677436 3/13/97	SS-8 2677439 3/13/97	SS-9 2677440 3/13/97	SS-4 2677441 3/13/97	SS-10 2677442 3/13/97	SS-7 2677443 3/13/97	Method Detection Limit	Result	Notes	Result	Notes	Result	Notes	Result	Notes	
TCL Semivolatiles																			
phenol	108-95-2		ND	ND	ND	ND	ND	ND	ND	0.033									
2-chlorophenol	95-57-8		ND	ND	ND	ND	ND	ND	ND	0.033									
1,4-dichlorobenzene	106-46-7		ND	ND	ND	ND	ND	ND	ND	0.033									
N-nitrosodi-n-propylamine	621-64-7		ND	ND	ND	ND	ND	ND	ND	0.067									
1,2,4-trichlorobenzene	120-82-1		ND	ND	ND	ND	ND	ND	ND	0.033									
4-chloro-3-methylphenol	59-50-7		ND	ND	ND	ND	ND	ND	ND	0.067									
acenaphthene	83-32-9		ND	ND	ND	ND	ND	ND	ND	0.033									
4-nitrophenol	100-02-7		ND	ND	ND	ND	ND	ND	ND	0.17									
2,4-dinitrotoluene	121-14-2		ND	ND	ND	ND	ND	ND	ND	0.067									
pentachlorophenol	87-86-5		ND	ND	ND	ND	ND	ND	ND	0.17									
pyrene	129-00-0		ND	ND	ND	ND	ND	ND	ND	0.067									
2-nitrophenol	88-75-5		ND	ND	ND	ND	ND	ND	ND	0.067									
2,4-dimethylphenol	105-67-9		ND	ND	ND	ND	ND	ND	ND	0.067									
2,4-dichlorophenol	120-83-2		ND	ND	ND	ND	ND	ND	ND	0.033									
2,4,6-trichlorophenol	88-06-2		ND	ND	ND	ND	ND	ND	ND	0.067									
2,4-dinitrophenol	51-28-5		ND	ND	ND	ND	ND	ND	ND	0.17									
bis (2-chloroethyl) ether	111-44-4		ND	ND	ND	ND	ND	ND	ND	0.067									
1,3-dichlorobenzene	541-73-1		ND	ND	ND	ND	ND	ND	ND	0.033									
1,2-dichlorobenzene	95-50-1		ND	ND	ND	ND	ND	ND	ND	0.033									
hexachloroethane	67-72-1		ND	ND	ND	ND	ND	ND	ND	0.067									
nitrobenzene	98-95-3		ND	ND	ND	ND	ND	ND	ND	0.033									
isophorone	78-59-1		ND	ND	ND	ND	ND	ND	ND	0.067									
bis (2-chloroethoxy) methane	111-91-1		ND	ND	ND	ND	ND	ND	ND	0.033									
naphthalene	91-20-3		ND	ND	ND	ND	ND	ND	ND	0.033									
hexachlorobutadiene	87-68-3		ND	ND	ND	ND	ND	ND	ND	0.067									
hexachlorocyclopentadiene	77-47-4		ND	ND	ND	ND	ND	ND	ND	0.17									
2-chloronaphthalene	91-58-7		ND	ND	ND	ND	ND	ND	ND	0.033									
acenaphthylene	208-96-8		ND	ND	ND	ND	ND	ND	ND	0.033									
dimethyl phthalate	131-11-3		ND	ND	ND	ND	ND	ND	ND	0.033									
fluorene	86-73-7		ND	ND	ND	ND	ND	ND	ND	0.033									
4-chlorophenyl phenyl ether	7005-72-3		ND	ND	ND	ND	ND	ND	ND	0.067									
diethyl phthalate	84-66-2		ND	ND	ND	ND	ND	ND	ND	0.067									
N-nitrosodiphenylamine	86-30-6		ND	ND	ND	ND	ND	ND	ND	0.067									
4-bromophenyl phenyl ether	101-55-3		ND	ND	ND	ND	ND	ND	ND	0.1									
hexachlorobenzene	118-74-1		ND	ND	ND	ND	ND	ND	ND	0.1									
phenanthrene	85-01-8		ND	ND	ND	ND	ND	ND	ND	0.033									
anthracene	120-12-7		ND	ND	ND	ND	ND	ND	ND	0.033									

Notes

Analytical method: SW-846 8270B

All results are reported on an "as received" basis in mg/kg. All samples were collected from 0 - 12" depth interval.

(a) Sample SS-27 is a blind duplicate of sample SS-7.

J - Estimated value; in cases of ND, indicates MDL is estimated. R - Unusable result; analyte may or may not be present in the sample.

Summary of Surface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	MP & A Sample Number Lab Sample Number Date Collected	SS-11 2677435 3/13/97	SS-6 2677436 3/13/97	SS-8 2677439 3/13/97	SS-9 2677440 3/13/97	SS-4 2677441 3/13/97	SS-10 2677442 3/13/97	SS-7 2677443 3/13/97
			Result	Result	Result	Result	Result	Result	Result
			Notes	Notes	Notes	Notes	Notes	Notes	Notes
			Method Detection Limit	Method Detection Limit	Method Detection Limit	Method Detection Limit	Method Detection Limit	Method Detection Limit	Method Detection Limit
di-n-butyl phthalate	84-74-2		ND	ND	ND	ND	0.049	0.11	0.046
fluoranthene	206-44-0		0.12	ND	0.95	0.26	0.3	3.1	ND
butyl benzyi phthalate	85-68-7		ND	ND	ND	ND	ND	ND	ND
benzo (a) anthracene	56-55-3		0.067	ND	0.64	0.22	0.27	2.3	ND
chrysene	218-01-9		0.11	ND	0.85	0.21	0.36	3.4	ND
3,3'-dichlorobenzidine	91-94-1		ND	ND	ND	ND	ND	ND	ND
bis (2-ethylhexyl) phthalate	117-81-7		ND	ND	ND	ND	ND	ND	ND
di-n-octyl phthalate	117-84-0		ND	ND	1.4	0.7	0.93	5.2	ND
benzo (b) fluoranthene	205-99-2		0.18	ND	0.53	0.25	0.34	2.3	ND
benzo (k) fluoranthene	207-08-9		ND	ND	0.65	0.33	0.21	2.4	ND
benzo (a) pyrene	50-32-8		0.084	ND	0.54	0.23	0.3	2.1	ND
indeno (1,2,3-cd) pyrene	193-39-5		ND	ND	0.15	0.17	0.072	0.64	ND
dibenz (a,h) anthracene	53-70-3		ND	ND	0.42	0.17	0.2	1.8	ND
benzo (ghi) perylene	191-24-2		ND	ND	ND	ND	ND	ND	ND
2-methylphenol	95-48-7		ND	ND	ND	ND	ND	ND	ND
2,2'-oxybis (1-chloropropane)	108-60-1		ND	ND	ND	ND	ND	ND	ND
4-methylphenol	106-44-5		ND	ND	ND	ND	ND	ND	ND
4-chloroaniline	106-47-8		ND	ND	ND	ND	ND	ND	ND
2-methylnaphthalene	91-57-6		ND	ND	ND	ND	ND	0.16	ND
2,4,5-trichlorophenol	95-95-4		ND	ND	ND	ND	ND	ND	ND
2-nitroaniline	88-74-4		ND	ND	ND	ND	ND	ND	ND
3-nitroaniline	99-09-2		ND	ND	ND	ND	ND	0.098	ND
dibenzofuran	132-64-9		ND	ND	ND	ND	ND	ND	ND
2,6-dinitrotoluene	606-20-2		ND	ND	ND	ND	ND	ND	ND
4-nitroaniline	100-01-6		ND	ND	ND	ND	ND	ND	ND
4,6-dinitro-2-methylphenol	534-52-1		ND	ND	ND	ND	ND	ND	ND
carbazole	86-74-8		ND	ND	0.043	ND	ND	0.26	ND

**Notes**  
 Analytical method: SW-846 8270B  
 All results are reported on an "as received" basis in mg/kg.  
 All samples were collected from 0 - 12" depth interval.  
 (a) Sample SS-27 is a blind duplicate of sample SS-7.  
 J - Estimated value; in cases of ND, indicates MDL is estimated.  
 R - Unusable result; analyte may or may not be present in the sample.

Summary of Surface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	Method Detection Limit	MP&A Sample ID Lab Sample Number Date Collected	SS-27 (a) 2677446 3/13/97	SS-5 2677444 3/13/97	SS-12 2677445 3/13/97	SS-3 2677447 3/13/97	SS-1 2678197 3/14/97	SS-15 2678198 3/14/97	SS-14 2678199 3/14/97	Result	Notes	Result	Notes	Result	Notes	
TCL Semivolatiles																	
phenol	108-95-2	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
2-chlorophenol	95-57-8	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
1,4-dichlorobenzene	106-46-7	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
N-nitrosodi-n-propylamine	621-64-7	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
1,2,4-trichlorobenzene	120-82-1	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
4-chloro-3-methylphenol	59-50-7	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
acenaphthene	83-32-9	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
4-nitrophenol	100-02-7	0.17		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
2,4-dinitrotoluene	121-14-2	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
pentachlorophenol	87-86-5	0.17		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
pyrene	129-00-0	0.067		ND	0.098 J	0.48	0.64	0.83	0.12	0.12	0.12		0.83		0.12		0.12
2-nitrophenol	88-75-5	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
2,4-dimethylphenol	105-67-9	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
2,4-dichlorophenol	120-83-2	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
2,4,6-trichlorophenol	88-06-2	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
2,4-dinitrophenol	51-28-5	0.17		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
bis (2-chloroethyl) ether	111-44-4	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
1,3-dichlorobenzene	541-73-1	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
1,2-dichlorobenzene	95-50-1	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
hexachloroethane	67-72-1	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
nitrobenzene	98-95-3	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
isophorone	78-59-1	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
bis (2-chloroethoxy) methane	111-91-1	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
naphthalene	91-20-3	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
hexachlorobutadiene	87-68-3	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
hexachlorocyclopentadiene	77-47-4	0.17		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
2-chloronaphthalene	91-58-7	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
acenaphthylene	208-96-8	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
dimethyl phthalate	131-11-3	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
fluorene	86-73-7	0.033		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
4-chlorophenyl phenyl ether	7005-72-3	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
diethyl phthalate	84-66-2	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
N-nitrosodiphenylamine	86-30-6	0.067		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
4-bromophenyl phenyl ether	101-55-3	0.1		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
hexachlorobenzene	118-74-1	0.1		ND	ND	ND	ND	ND	ND	ND	ND		ND		ND		ND
phenanthrene	85-01-8	0.033		ND	ND	0.087 J	0.091 J	0.067 J	0.041 J	0.067 J	0.067 J		0.067 J		0.067 J		0.067 J
anthracene	120-12-7	0.033		ND	ND	ND	0.041 J	0.067 J	0.041 J	0.067 J	0.067 J		0.067 J		0.067 J		0.067 J

Notes  
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**Summary of Surface Soil Analytical Results**  
**Former Gulf States Creosoting Site**  
**Hattiesburg, Mississippi**

Parameter	CAS Number	MP&A Sample ID Lab Sample Number Date Collected	SS-27 (a) 2677446 3/13/97	SS-5 2677444 3/13/97	SS-12 2677445 3/13/97	SS-3 2677447 3/13/97	SS-1 2678197 3/14/97	SS-15 2678198 3/14/97	SS-14 2678199 3/14/97	Result	Notes	Result	Notes	Result	Notes	Result	Notes	Result	Notes
di-n-butyl phthalate	84-74-2	0.033	0.044	J	0.057	J	0.038	J	0.042	J		0.04	J	0.042	J				
fluoranthene	206-44-0	0.033	ND		0.39		0.48		ND			0.12	J	ND					
butyl benzyl phthalate	85-68-7	0.067	ND		ND		ND		ND			ND	J	ND					
benzo (a) anthracene	56-55-3	0.033	ND		0.044	J	0.4		ND			0.056	J	ND					
chrysene	218-01-9	0.033	ND		0.078	J	0.62		ND			0.11	J	ND					
3,3'-dichlorobenzidine	91-94-1	0.13	ND		ND		ND		ND			ND		ND					
bis (2-ethylhexyl) phthalate	117-81-7	0.067	ND		ND		ND		ND			ND		ND					
di-n-octyl phthalate	117-84-0	0.067	ND		ND		ND		ND			ND		ND					
benzo (b) fluoranthene	205-99-2	0.067	ND		0.54	J	2.2		ND			0.19	J	ND					
benzo (k) fluoranthene	207-08-9	0.13	ND		ND		0.65		ND			ND		ND					
benzo (a) pyrene	50-32-8	0.067	ND		ND		0.41		ND			ND		ND					
indeno (1,2,3-cd) pyrene	193-39-5	0.067	ND		0.25	J	0.46		ND			0.086	J	ND					
dibenz (a,h) anthracene	53-70-3	0.067	ND		ND		0.16		ND			0.08	J	ND					
benzo (ghi) perylene	191-24-2	0.067	ND		0.2	J	0.24		ND			ND		ND					
2-methylphenol	95-48-7	0.067	ND		ND		ND		ND			ND		ND					
2,2'-oxybis (1-chloropropane)	108-60-1	0.1	ND		ND		ND		ND			ND		ND					
4-methylphenol	106-44-5	0.1	ND		ND		ND		ND			ND		ND					
4-chloroaniline	106-47-8	0.1	ND		ND		ND		ND			ND		ND					
2-methylnaphthalene	91-57-6	0.033	ND		ND		ND		ND			ND		ND					
2,4,5-trichlorophenol	95-95-4	0.067	ND		ND		ND		ND			ND		ND					
2-nitroaniline	88-74-4	0.067	ND		ND		ND		ND			ND		ND					
3-nitroaniline	99-09-2	0.067	ND		ND		ND		ND			ND		ND					
4-nitroaniline	132-64-9	0.033	ND		ND		ND		ND			ND		ND					
2,6-dinitrotoluene	606-20-2	0.067	ND		ND		ND		ND			ND		ND					
4-nitroaniline	100-01-6	0.1	ND		ND		ND		ND			ND		ND					
4,6-dinitro-2-methylphenol	534-52-1	0.17	ND		ND		ND		ND			ND		ND					
carbazole	86-74-8	0.033	ND		ND		ND		ND			ND		ND					

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Summary of Surface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	MP & A Sample ID Lab Sample Number Date Collected	SS-13 2678200 3/14/97	SS-18 2678201 3/14/97	SS-2 2678202 3/14/97	SS-17 2678203 3/14/97	SS-16 2678204 3/14/97	Result	Notes
TCL Semivolatiles									
phenol	108-95-2		ND	ND	ND	ND	ND	ND	
2-chlorophenol	95-57-8		ND	ND	ND	ND	ND	ND	
1,4-dichlorobenzene	106-46-7		ND	ND	ND	ND	ND	ND	
N-nitrosodi-n-propylamine	621-64-7		ND	ND	ND	ND	ND	ND	
1,2,4-trichlorobenzene	120-82-1		ND	ND	ND	ND	ND	ND	
4-chloro-3-methylphenol	59-50-7		ND	0.047	ND	ND	ND	ND	
acenaphthene	83-32-9		ND	ND	ND	ND	ND	ND	
4-nitrophenol	100-02-7		ND	ND	ND	ND	ND	ND	
2,4-dinitrotoluene	121-14-2		ND	ND	ND	ND	ND	ND	
pentachlorophenol	87-86-5		ND	2.4	0.2	1	0.95	ND	
pyrene	129-00-0		1.8	ND	ND	ND	ND	ND	
2-nitrophenol	88-75-5		ND	ND	ND	ND	ND	ND	
2,4-dimethylphenol	105-67-9		ND	ND	ND	ND	ND	ND	
2,4-dichlorophenol	120-83-2		ND	ND	ND	ND	ND	ND	
2,4,6-trichlorophenol	88-06-2		ND	ND	ND	ND	ND	ND	
2,4-dinitrophenol	51-28-5		ND	ND	ND	ND	ND	ND	
bis (2-chloroethyl) ether	111-44-4		ND	ND	ND	ND	ND	ND	
1,3-dichlorobenzene	541-73-1		ND	ND	ND	ND	ND	ND	
1,2-dichlorobenzene	95-50-1		ND	ND	ND	ND	ND	ND	
hexachloroethane	67-72-1		ND	ND	ND	ND	ND	ND	
nitrobenzene	98-95-3		ND	ND	ND	ND	ND	ND	
isophorone	78-59-1		ND	ND	ND	ND	ND	ND	
bis (2-chloroethoxy) methane	111-91-1		ND	ND	ND	ND	ND	ND	
naphthalene	91-20-3		ND	0.047	ND	ND	0.16	ND	J
hexachlorobutadiene	87-68-3		ND	ND	ND	ND	ND	ND	
hexachlorocyclopentadiene	77-47-4		ND	ND	ND	ND	ND	ND	
2-chloronaphthalene	91-58-7		ND	ND	ND	ND	ND	ND	
acenaphthylene	208-96-8		0.088	J	ND	0.12	0.17	ND	J
dimethyl phthalate	131-11-3		ND	ND	ND	ND	ND	ND	
fluorene	86-73-7		ND	ND	ND	ND	ND	ND	
4-chlorophenyl phenyl ether	7005-72-3		ND	0.088	ND	ND	ND	ND	
diethyl phthalate	84-66-2		ND	ND	ND	ND	ND	ND	
N-nitrosodiphenylamine	86-30-6		ND	0.082	J	ND	ND	ND	
4-bromophenyl phenyl ether	101-55-3		ND	ND	ND	ND	ND	ND	
hexachlorobenzene	118-74-1		ND	ND	ND	ND	ND	ND	
phenanthrene	85-01-8		0.17	J	0.037	J	0.25	ND	J
anthracene	120-12-7		0.12	J	ND	0.12	0.17	ND	J

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Summary of Surface Soil Analytical Results

Former Gulf States Creosoting Site  
Hattiesburg, Mississippi

Parameter	CAS Number	MP&A Sample ID Lab Sample Number Date Collected	SS-13		SS-18		SS-2		SS-17		SS-16	
			Result	Notes	Result	Notes	Result	Notes	Result	Notes	Result	Notes
di-n-butyl phthalate	84-74-2	2678200 3/14/97	0.036	J	0.1	J	0.059	J	0.099	J	0.11	J
fluoranthene	206-44-0		1.4		3.2		0.066	J	0.68		0.78	
butyl benzyl phthalate	85-68-7		ND		ND		ND		ND		ND	
benzo (a) anthracene	56-55-3		1.1		1.1		0.041	J	0.54		0.49	
chrysene	218-01-9		1.7		1.7		0.062	J	0.8		0.87	
3,3'-dichlorobenzidine	91-94-1		ND		ND		ND		ND		ND	
bis (2-ethylhexyl) phthalate	117-81-7		ND		0.078	J	ND		ND		ND	
di-n-octyl phthalate	117-84-0		ND		ND		ND		ND		ND	
benzo (b) fluoranthene	205-99-2		3.9		2.1		0.11	J	1.2		1.4	
benzo (k) fluoranthene	207-08-9		1.2		0.8		ND		0.47		0.49	
benzo (a) pyrene	50-32-8		1.4		0.99		0.22	J	0.56		0.71	
indeno (1,2,3-cd) pyrene	193-39-5		0.067		0.7		0.096	J	0.47		0.6	
dibenz (a,h) anthracene	53-70-3		0.28	J	0.21	J	ND		0.14	J	0.16	J
benzo (ghi) perylene	191-24-2		0.7		0.75		0.74		0.68		1.2	
2-methylphenol	95-48-7		ND		ND		ND		ND		ND	
2,2'-oxybis (1-chloropropane)	108-60-1		ND		ND		ND		ND		ND	
4-methylphenol	106-44-5		ND		ND		ND		ND		ND	
4-chloroaniline	106-47-8		ND		ND		ND		ND		ND	
2-methylnaphthalene	91-57-6		ND		0.05	J	ND		ND		0.23	J
2,4,5-trichlorophenol	95-95-4		ND		ND		ND		ND		ND	
2-nitroaniline	88-74-4		ND		ND		ND		ND		ND	
3-nitroaniline	99-09-2		ND		ND		ND		ND		ND	
dibenzofuran	132-64-9		ND		0.075	J	ND		0.036	J	0.093	J
2,6-dinitrotoluene	606-20-2		ND		ND		ND		ND		ND	
4-nitroaniline	100-01-6		0.1		ND		ND		ND		ND	
4,6-dinitro-2-methylphenol	534-52-1		ND		ND		ND		ND		ND	
carbazole	86-74-8		0.061	J	0.28	J	ND		0.046	J	0.11	J

Notes

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