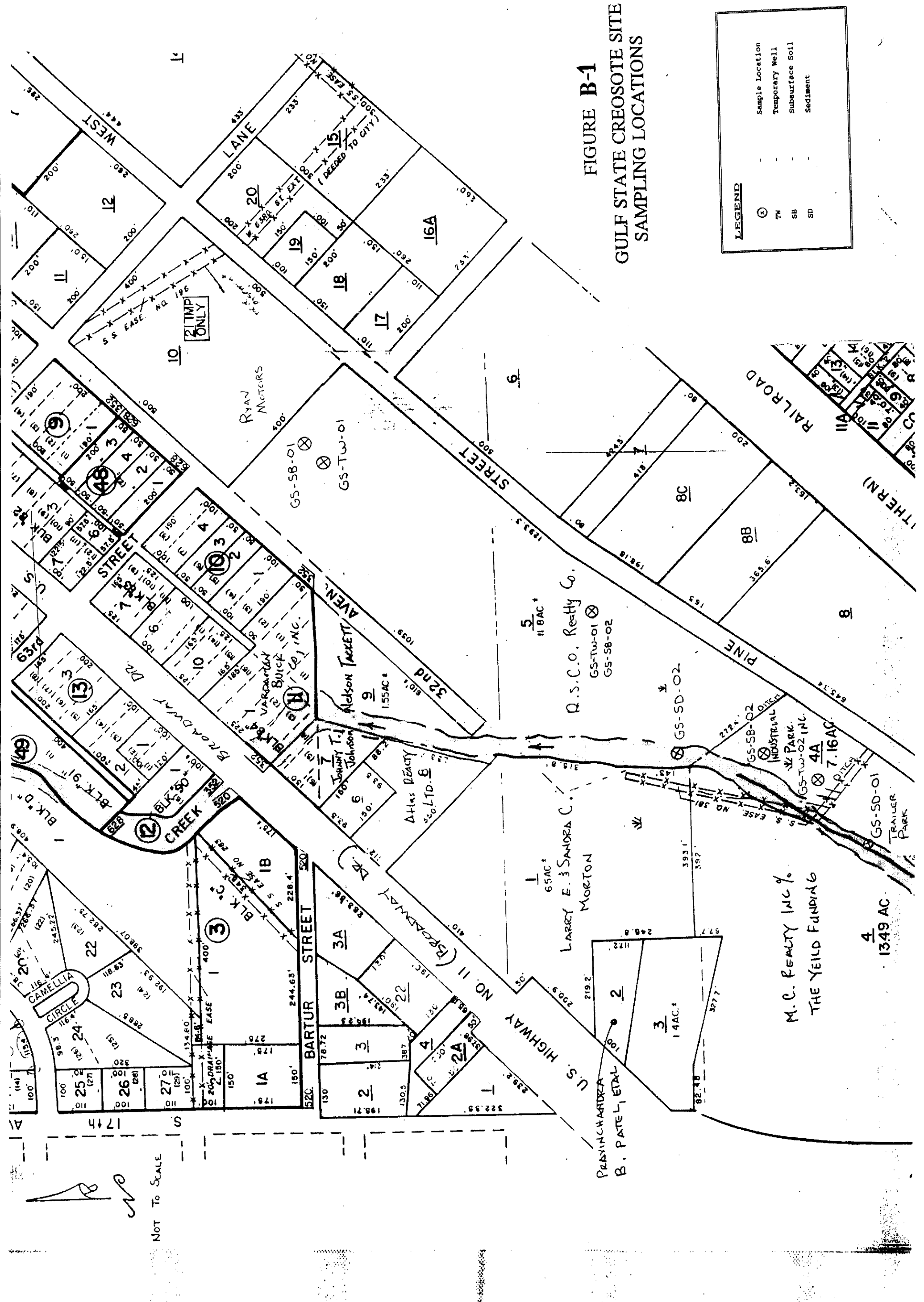


**APPENDIX B**

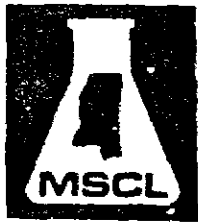
**FIGURE B-1**  
**GULF STATE CREOSOTE SITE**  
**SAMPLING LOCATIONS**

**LEGEND**

- ⊙ Sample Location
- ⊕ Temporary Well
- ⊖ Subsurface Soil
- ⊘ Sediment



# MISSISSIPPI STATE UNIVERSITY



## MISSISSIPPI STATE CHEMICAL LABORATORY

BOX CR - MISSISSIPPI STATE, MISSISSIPPI 39762

TELEPHONE (601) 325-3324



DR EARL G. ALLEY  
State Chemist

DR LARRY G. LANE  
Director, IAS Division

November 13, 1991

Analysis No. 826,336-338

Analysis of Water

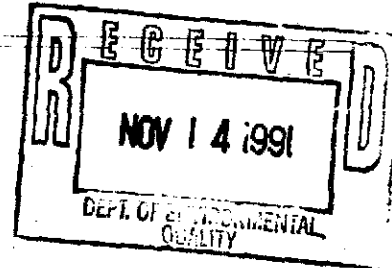
Marked: Gulf State Creosote, Hattiesburg

Received on 10-21-91

from MS Office of Pollution Control  
ATTN: Jim Hardage

Address P.O. Box 10385 Jackson, MS 39209

### RESULTS:



MSCL NO.

MS DEQ-OPC Identification

826,336

GS-PW-01, Public Well-Hall Street (Water Dept.)

826,337

GS-TW-01, Background Temporary Well, Pine Street &  
Ryan Motors

826,338

GS-TW-02, Downgradient Temporary Well, Near Trailer Park

Results from our gc/mass spec analyses of the above water samples for semivolatile organic compounds on the Target Compound List are presented in attached reports.

Analytical Costs

3 ABNs By gc/ms @ \$400 = \$1200

*Earl G. Alley*

State Chemist

PLEASE GIVE NUMBER WHEN REFERRING TO THIS ANALYSIS

TARGET COMPOUND LIST

SEMIVOLATILES DATA SHEET FOR WATERS

MSCL ANALYSIS NO. 826,337

MARKED Gulf State Creosote

ANALYSIS OF Water

GS-TW-01

COMPOUNDS	MQL*	Micro g/L	COMPOUNDS	MQL*	Micro g/L
Phenol	10	ND	2,4-Dinitrophenol	50	ND
bis(2-Chloroethyl)ether	10	ND	4-Nitrophenol	50	ND
2-Chlorophenol	10	ND	Dibenzofuran	10	ND
1,3-Dichlorobenzene	10	ND	2,4-Dinitrotoluene	10	ND
1,4-Dichlorobenzene	10	ND	Diethylphthalate	10	ND
Benzyl alcohol	20	ND	4-Chlorophenyl-phenyl ether	10	ND
1,2-Dichlorobenzene	10	ND	Fluorene	10	ND
2-Methylphene	10	ND	4-Nitroaniline	50	ND
bis(2-Chloroisopropyl)ether	10	ND	4,6-Dinitro-2-methylphenol	50	ND
4-Methylphenol	10	ND	N-nitrosodiphenylamine	10	ND
N-Nitroso-di-n-dipropylamine	10	ND	4-Bromophenyl-phenylether	10	ND
Hexachloroethane	10	ND	Hexachlorobenzene	10	ND
Nitrobenzene	10	ND	Pentachlorophenol	50	ND
Isophorone	10	ND	Phenanthrene	10	ND
2-Nitrophenol	10	ND	Anthracene	10	ND
2,4-Dimethylphenol	10	ND	Di-n-butylphthalate	10	ND
Benzoic acid	20	ND	Fluoranthene	10	ND
bis(2-Chloroethoxy)methane	10	ND	Pyrene	10	ND
2,4-Dichlorophenol	10	ND	Butylbenzylphthalate	10	ND
1,2,4-Trichlorobenzene	10	ND	3,3'-Dichlorobenzidine	20	ND
Naphthalene	10	ND	Benzo(a)anthracene	10	ND
4-Chloroaniline	20	ND	Chrysene	10	ND
Hexachlorobutadiene	10	ND	bis(2-Ethylhexyl)phthalate	10	ND
4-Chloro-3-methylphenol	20	ND	Di-n-octylphthalate	10	ND
2-Methylnaphthalene	10	ND	Benzo(b)fluoranthene	10	ND
Hexachlorocyclopentadiene	10	ND	Benzo(k)fluoranthene	10	ND
2,4,6-Trichlorophenol	10	ND	Benzo(a)pyrene	10	ND
2,4,5-Trichlorophenol	10	ND	Indeno(1,2,3-cd)pyrene	10	ND
2-Chloronaphthalene	10	ND	Dibenz(a,h)anthracene	10	ND
2-Nitroaniline	50	ND	Benzo(g,h,i)perylene	10	ND
Dimethylphthalate	10	ND			
Acenaphthylene	10	ND			
2,6-Dinitrotoluene	10	ND			
3-Nitroaniline	50	ND			
Acenaphthene	10	ND			

\*ND = None Detected

MQL = Minimum Quantifiable Level

SURROGATES	RECOVERY (%)
2-Fluorophenol	38
Phenol-d5	22
Nitrobenzene-d5	78
2-Fluorobiphenyl	78
2,4,6-Tribromophenol	114
p-Terphenyl-d14	116

Multiply MQL's by \_\_\_\_\_

\_\_\_\_\_ No peaks above 40% of internal standard were observed.

1 \_\_\_\_\_ Peaks above 40% of internal standard were not identified.

3 \_\_\_\_\_ Peaks above 40% internal standard not on EPA Appendix IX. Appear to be fatty acids at a total estimated concentration of 50 µg/L.

*Earl J. Colley*  
State Chemist

TARGET COMPOUND LIST

SEMIVOLATILES DATA SHEET FOR WATERS

MSCL ANALYSIS NO. 826,338

MARKED Gulf State Creosote

ANALYSIS OF Water

GS-TN-02

COMPOUNDS	MQL*	Micro g/L	COMPOUNDS	MQL*	Micro g/L
Phenol	10	ND	2,4-Dinitrophenol	50	ND
bis(2-Chloroethyl)ether	10	ND	4-Nitrophenol	50	ND
2-Chlorophenol	10	ND	Dibenzofuran	10	ND
1,3-Dichlorobenzene	10	ND	2,4-Dinitrotoluene	10	ND
1,4-Dichlorobenzene	10	ND	Diethylphthalate	10	ND
Benzyl alcohol	20	ND	4-Chlorophenyl-phenyl ether	10	ND
1,2-Dichlorobenzene	10	ND	Fluorene	10	ND
2-Methylphenol	10	ND	4-Nitrosaniline	50	ND
bis(2-Chloroisopropyl)ether	10	ND	4,6-Dinitro-2-methylphenol	50	ND
4-Methylphenol	10	ND	N-nitrosodiphenylamine	10	ND
N-Nitroso-di-n-dipropylamine	10	ND	4-Bromophenyl-phenyl ether	10	ND
Hexachloroethane	10	ND	Hexachlorobenzene	10	ND
Nitrobenzene	10	ND	Pentachlorophenol	50	ND
Isophorone	10	ND	Phenanthrene	10	ND
2-Nitrophenol	10	ND	Anthracene	10	ND
2,4-Dimethylphenol	10	ND	Di-n-butylphthalate	10	ND
Benzoic acid	20	ND	Fluoranthene	10	ND
bis(2-Chloroethoxy)methane	10	ND	Pyrene	10	ND
2,4-Dichlorophenol	10	ND	Butylbenzylphthalate	10	ND
1,2,4-Trichlorobenzene	10	ND	3,3'-Dichlorobenzidine	20	ND
Naphthalene	10	ND	Benzo(a)anthracene	10	ND
4-Chloroaniline	20	ND	Chrysene	10	ND
Hexachlorobutadiene	10	ND	bis(2-Ethylhexyl)phthalate	10	ND
4-Chloro-3-methylphenol	20	ND	Di-n-octylphthalate	10	ND
2-Methylnaphthalene	10	ND	Di-n-butylfluoranthene	10	ND
Hexachlorocyclopentadiene	10	ND	Benzo(k)fluoranthene	10	ND
2,4,6-Trichlorophenol	10	ND	Benzo(a)pyrene	10	ND
2,4,5-Trichlorophenol	10	ND	Indeno(1,2,3-cd)pyrene	10	ND
2-Chloronaphthalene	10	ND	Dibenz(a,h)anthracene	10	ND
2-Nitroaniline	50	ND	Benzo(g,h,i)perylene	10	ND
Dimethylphthalate	10	ND			
Acenaphthylene	10	ND			
2,6-Dinitrotoluene	10	ND			
3-Nitroaniline	50	ND			
Acenaphthene	10	ND			

\*ND - None Detected

MQL - Minimum Quantifiable Level

SURROGATES	RECOVERY (%)
2-Fluorophenol	43
Phenol-d5	28
Nitrobenzene-d5	85
2-Fluorobiphenyl	82
2,4,6-Tribromophenol	126
p-Terphenyl-d14	100

Multiply MQL's by \_\_\_\_\_

\_\_\_\_ No peaks above 40% of internal standard were observed.

\_\_\_\_ 17 Peaks above 40% of internal standard were not identified.

\_\_\_\_ 2 Peaks above 40% internal standard not on EPA Appendix IX. Appear to be fatty acids at a total estimated concentration of 125 µg/L.

*Carl L. Colby*  
State Chemist