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AWARE inc.
ASSOCIATED WATER & AIR RESOURCES ENGINEERS, INC.

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36742

April 30, 1979

Mr. Randy Curtis
Director of Operations - Smyrna
Metropolitan Nashville Airport Authority
P. O. Box 1720
Nashville, Tennessee 37217

Dear Randy:

At your request, AWARE Laboratories collected samples from an approximately 1 million gallons above ground storage tank and a underground storage tank on April 20, 1979. This letter report summarizes our observations.

The total liquid depth in the large tank is 33.5 ft. Less than 5 ft on the top consists of a black oil. The lower portion consists of an oil in water emulsion. The bottom was not sampled. Six liquid samples were collected with a 1 pint Bacon Bomb sampler at depths from the bottom, 0' (#1), 9' (#2), 18' (#3), 27' (#4), 29' (#5), 31' (#6). Samples #1 and #6 were characterized for selected chemical and physical parameters presented in Table 1.

Sample	approx. volume in tank	Oil & Grease mg/l	Phenol. mg/l	Specific Gravity	Water & Sediment	BTU/lb
oil #6	<15%			.981	60%	6780
water #1	85%	10,300	4.0	—	~99%	—
small tank	—	1,800	—	—	~99%	—

The following conclusions are drawn from the analyses.

1. The fuel content of the waste is negligible in the present condition. Deemulsification of both the concentrated oil layer and the emulsified oil in water are possible, but not economically feasible. The possibility of selling the oil appears remote.

1K = 10LB
10K = LB.

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AWARE inc.
ASSOCIATED WATER & AIR RESOURCES ENGINEERS, INC.

GENERAL LABORATORY REPORT

CLIENT: Systems Technology Corp - Lee Bagby	JOB OR P.O. NO.: No P.O. 6813
ADDRESS: 1640 Antioch Pike, Nashville, TN 37013	DATE RECEIVED:
SAMPLE DESCRIPTION: Waste water collected at Smyrna Airport	SAMPLE NO.:

ANALYSIS		RESULTS
Compounds[2]	mg/l	
Methylene chloride	500[1]	
1,2 dichloroethane	220[1]	
orcform	210	
Carbon tetrachloride	125	
Benzene/Trichloroethylene	70	
1,1,2,2, Tetrachloroethane	150[1]	
Other compounds present, but not quantitatively measured are,		
chlorobenzene, dibromochloromethane, chloromethane.		
[1]in the absence of a suitable standard, these compounds are estimated based on		
literature values for relative retention time and relative response factors.		
[2]a representative spectrum is attached.		

REMARKS 1 liter of wastewater was distilled at atmospheric pressure. 38 ml distillate consisting of 2.5 ml oil and 35.5 ml water was collected. Each sample was analyzed by direct injection on 0.2% CW 1500/80/100 Carbobac B, 6'x2 mm, glass column. Columtemperature: 200 at 60°C, 8°C/min to 160°C, Flow rate: He 30 ml/min DET: DID, 64 x 10^{-11}, Sample size: 2 ul, Varian 1400. The oil sample was diluted 1:100 in methyl alcohol.

5/11/79

AWARE, Inc. John W. Dawson Date

2307 12th Ave., S.
Box 10284

615-383-4581 (Lab)
615-794-0113 (Eng.)

KEYPUNCH WORKSHEET

FOR ☐ IBM / ☐ HONEYWELL

	0-54	0-55	0-56*	0-57	0-58*	0-86
Carbon Tetrachloride	X				71 ppb	
Dichloroethylene	X				216 ppb	No significant peaks above background level appeared in the chromatogram of this sample
Dimethylbenzene or Ethylbenzene	X	X	X	X	X	
Dimethyl-ethylbenzene	X					
Methyl Naphthalene	X	X		X		
Naphthalene	X	X	X	X		
Toluene	X		X	X		
Trichloroethane				X	178 ppb	
Trichloroethylene				X	[illegible]	
Trimethyl benzene	X			X	X	
Other Aromatic and Aliphatic Compounds	X	X	X	X	X	
Chlorobenzene					65 ppb	
Chloroform					131 ppb	
Tetrachloroethylene					224 ppb	

* 0-56 and 0-58 are samples from the same source collected on different days.

X - means that these compounds were determined to be present by GC/MS

ppb - "Thousandth" " " " by the Hall Columetric Detector in the Chlorid

17 8 0003

DP 905E

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. 0- 54 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Oil Holding Pond adj. to John P. Saad Waste Oil Co.

Analytical Procedures and Treatment of Sample:

This sample was analyzed using the Gas Chromatograph/Mass Spectrometer to qualitatively determine the constituents of the waste.

Compounds ~~Requested or Analyzed for~~ determined to be present:

Compound	~~Results~~	Compound	~~Results~~	Compound	~~Results~~
1. Carbon Tetrachloride		8. Trimethyl benzene		15.	
2. Dichloroethylene		9. A series of other aromatic and aliphatic compounds indicative of a Petroleum product		16.	
3. Dimethyl or ethyl benzene		10.		17.	
4. Dimethyl-ethyl benzene		11.		18.	
5. Methyl Naphthalene		12.		19.	
6. Naphthalene		13.		20.	
7. Toluene		14.		21.	

Remarks: _____

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Rev.

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. Ø-54 Date Received: 3/5/79 Date Completed: 3/20/79

Sample Collected By: CRB, JHR Date Collected: 3/2/79

Sample Source & Identification: Oil Holding Pond adjacent to John P. Szabo Waste Oil Co.

Analytical Procedures and Treatment of Sample:

One ml of the top layer of sample was pipetted into a mixing cylinder. This was diluted to 10 ml then any water was removed by running the sample through silica gel. This was then analyzed by Gas Chromatography. The column was the 10% FFAP with a Flame Ionization Detector.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Ethyl Benzene	- 556 mg/l	8.		15.	
2. Mesitylene	- 50 mg/l	9.		16.	
3. 1,2,4 Trimethyl Benzene	- 60 mg/l	10.		17.	
4.		11.		18.	
5. 1,2,3 " "	- 88 mg/l	12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: _____

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Rev.

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. O-55 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Oil Holding Tank immediately Behind J. P. Saad Waste Oil Co.

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Dimethyl or ethyl benzene		8.		15.	
2. Methyl Naphthalene		9.		16.	
3. Naphthalene		10.		17.	
4. Other Aromatic and		11.		18.	
5. Aliphatic Compounds		12.		19.	
6. indicative of a		13.		20.	
7. Petroleum Product		14.		21.	

Remarks: _____

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B-23
Rev.

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. D- O-56* Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Spring on Grassmere Croft Farm (3725 Nolensville Rd.)

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Dimethyl or Ethyl benzene		8.		15.	
2. Methyl benzene		9.		16.	
3. Toluene		10.		17.	
4. A series of aromatic and		11.		18.	
5. aliphatic compounds		12.		19.	
6. indicative of a petroleum		13.		20.	
7. product		14.		21.	

Remarks: * This sample was several days old when it was received in the lab and since the purge and trap method was to be used, a fresh sample from the spring was requested and the check for other constituents in this sample was halted. See O-58.

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ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. Ø-56 Date Received: 3-5-79 Date Completed: 3-26-79

Sample Collected By: CRB, JHR Date Collected: 3-2-79

Sample Source & Identification: SPRING ON GRASSMERE CROFT FARM - 3725 NOLENSVILLE RD.

Analytical Procedures and Treatment of Sample:

VOLATILE ORGANICS - BY PURGE AND TRAP METHOD

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. CHLOROFORM	625 ppb.	8.		15.	
2. CARBON TET.	1550 ppb.	9.		16.	
3. 1,1,2-TRICHLORO-		10.		17.	
4. ETHANE	1930 ppb.	11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: _____

TDPH
B-28
Rev.

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. D- O-57 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Illegal Dumpsite in Woods Rt. side, Entrance - Saad Property.

Analytical Procedures and Treatment of Sample:

See O-54

Compounds ~~Requested or Analyzed for~~ determined to be present

Compound	~~Results~~	Compound	Results	Compound	Results
1. Dimethyl or Ethyl benzene		8. A series of aromatic and aliphatic compounds which are indicative of a petroleum product		15.	
2. Toluene		9.		16.	
3. Trichloroethane		10.		17.	
4. Trichloroethylene		11.		18.	
5. Trimethyl benzene		12.		19.	
6. Methyl Naphthalene		13.		20.	
7. Naphthalene		14.		21.	

Remarks:

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. O-57 Date Received: 3/5/79 Date Completed: 3/20/79

Sample Collected By: CRB, THR Date Collected: 3/2/79

Sample Source & Identification: Illegal Dump Site in Woods Rt. Side, Entrance - Saad Property

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Ethyl Benzene	22 mg/l	8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks:

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. O-58 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: J H R Date Collected: 3-4-79

Sample Source & Identification: Spring on Croft Mere Farm Davidson Co.

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Dimethyl or Ethyl benzene		8.		15.	
2. Trimethyl Benzene		9.		16.	
3. Dichloroethylene		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks:

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ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No._____

Laboratory Sample No. P- Ø-58 Date Received: 3-5-79 Date Completed: 3-20-79

Sample Collected By: JOE ROSSMAN Date Collected: 3-4-79

Sample Source & Identification: SPRING ON CROFTMERE FARM - DAVIDSON CO.

Analytical Procedures and Treatment of Sample:

VOA - BY PURGE AND TRAP METHOD

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. 1,1 DICHLORO -		8. TETRA CHLORO -		15.	
2. ETHYLENE	216 ppb	9. ETHYLENE	224 ppb	16.	
3. CHLOROFORM	131 ppb	10. CHLORO -		17.	
4. CARBON -		11. BENZENE	65 ppb.	18.	
5. TETRACHLORIDE	71 ppb	12.		19.	
6. 1,1,2 TRICHLORO -		13.		20.	
7. ETHANE	178 ppb	14.		21.	

Remarks:

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ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. 0-86 Date Received: 3-16-79 Date Completed: 3-23-79

Sample Collected By: Joseph H. Rossman Date Collected: 3-15-79

Sample Source & Identification: Jim Fults' Well; Residence on Wade Herrod (Silver Springs) Rd.

Analytical Procedures and Treatment of Sample:

See 0-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. No significant		8.		15.	
2. peaks above		9.		16.	
3. background level		10.		17.	
4. appeared in the		11.		18.	
5. chromatogram of		12.		19.	
6. this sample		13.		20.	
7.		14.		21.	

Remarks:

TDPH-W
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Rev. 4

POOR LEGIBILITY

PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL

supplied by Joe Rossman. NBO/DWQC, TN 6/4/79

ORGAN. LABORATORY ANALYSIS REPORT

Field Log. No. _____ 17 8 0014 file

Laboratory Sample No. P- 508 Date Received: 12/14/78 Date Completed: 12/14/78

Sample Collected By: Joe Rossman Date Collected: 12/14/78

Sample Source & Identification: John T. Saad + Sons Oil Waste Pond - Davidson Co.

Analytical Procedures and Treatment of Sample:

10 ml of sample were extracted with 1ml Hexane and analyzed on the GC/MS to determine the presence of Chlorinated Hydrocarbons. No attempt was made to quantitate this sample or to identify all the aromatic or aliphatic hydrocarbons present.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

found no PCB's

Remarks: Check for Chlorinated Hydrocarbons:

The only chlorinated compound determined in this sample was chloroform. Other solvent type compounds determined to be present are toluene, Xylene, Trimethylbenzene, 1-pentene, a C8H16 compound and a C8H18 compound.

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ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. 0-54 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Oil Holding Pond adj. to John P. Saad Waste Oil Co.

Analytical Procedures and Treatment of Sample:

This sample was analyzed using the Gas Chromatograph/Mass Spectrometer to qualitatively determine the constituents of the waste.

Compounds ~~Requested or tested for~~ determined to be present:

Compound	~~Results~~	Compound	~~Results~~	Compound	Results
1. Carbon Tetrachloride		8. Trimethyl benzene		15.	
2. Dichloroethylene		9. A series of other aromatic and aliphatic compounds indicative of a Petroleum product		16.	
3. Dimethyl ~~ex~~ ethyl benzene		10.		17.	
4. Dimethyl-ethyl benzene		11.		18.	
5. Methyl Naphthalene		12.		19.	
6. Naphthalene		13.		20.	
7. Toluene		14.		21.	

Remarks: _____

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. Φ-54 Date Received: 3/5/79 Date Completed: 3/20/79

Sample Collected By: CAB, JHR Date Collected: 3/5/79

Sample Source & Identification: Oil Holding Pond adjacent to John P. Szabo Waste Oil Co.

Analytical Procedures and Treatment of Sample:

One ml of the top layer of sample was pipetted into a mixing cylinder. This was diluted to 10 ml then any water was removed by running the sample through silica gel. This was then analyzed by Gas Chromatography. The column was the 10% FFAP with a Flame Ionization Detector.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Ethyl Benzene	- 556 mg/l	8.		15.	
2. Mesitylene	- 50 mg/l	9.		16.	
3. 1,2,4 Trimethyl Benzene	- 60 mg/l	10.		17.	
4.		11.		18.	
5. 1,2,3 " "	- 28 mg/l	12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: _____

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. O-55 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Oil Holding Tank immediately Behind J. P. Saad Waste Oil Co.

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Dimethyl or ethyl benzene		8.		15.	
2. Methyl Naphthalene		9.		16.	
3. Naphthalene		10.		17.	
4. Other Aromatic and		11.		18.	
5. Aliphatic Compounds		12.		19.	
6. indicative of a		13.		20.	
7. Petroleum Product		14.		21.	

Remarks: _____

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. Ø-56 Date Received: 3-5-79 Date Completed: 3-26-79

Sample Collected By: CRB, JHR Date Collected: 3-2-79

Sample Source & Identification: SPRING ON GRASSMERE CROFT FARM - 3725 NOLENSVILLE RD.

Analytical Procedures and Treatment of Sample:

VOLATILE ORGANICS - BY PURGE AND TRAP METHOD

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. CHLOROFORM	625 ppb.	8.		15.	
2. CARBON TET.	1550 ppb.	9.		16.	
3. 1,1,2-TRICHLORO-		10.		17.	
4. ETHANE	1930 ppb.	11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: _____

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. D- O-56* Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Spring on Grassmere Croft Farm (3735 Nolensville Rd.)

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Dimethyl or Ethyl benzene		8.		15.	
2. Methyl benzene		9.		16.	
3. Toluene		10.		17.	
4. A series of aromatic and		11.		18.	
5. aliphatic compounds		12.		19.	
6. indicative of a petroleum		13.		20.	
7. product		14.		21.	

Remarks: * This sample was several days old when it was received in the lab and since the purge and trap method was to be used, a fresh sample from the spring was requested and the check for other constituents in this sample was halted. See O-58.

ORGANIC LABORATORY ANALYSIS REPORT 17 8 0020

Field Log. No.

Laboratory Sample No. O-57 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Illegal Dumpsite in Woods Rt. side, Entrance - Saad Property.

Analytical Procedures and Treatment of Sample:

See O-54

Compounds ~~Requested or Analyzed for~~ determined to be present

Compound	Results	Compound	Results	Compound	Results
1. Dimethyl or Ethyl benzene		8. A series of aromatic and aliphatic compounds which are indicative of a petroleum product		15.	
2. Toluene		9.		16.	
3. Trichloroethane		10.		17.	
4. Trichloroethylene		11.		18.	
5. Trimethyl benzene		12.		19.	
6. Methyl Naphthalene		13.		20.	
7. Naphthalene		14.		21.	

Remarks:

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ORGANIC LABORATORY ANALYSIS REP T 17 8 .0021

Field Log. No.

Laboratory Sample No. O-57 Date Received: 3/5/79 Date Completed: 3/20/79

Sample Collected By: CRB, JHR Date Collected: 3/2/79

Sample Source & Identification: Illegal Dump Site in Woods Rt. Side, Entrance - Saad Property

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Ethyl Benzene	22 mg/l	8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks:

17 8 0022

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. D-0-58 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: JHR Date Collected: 3-4-79

Sample Source & Identification: Spring on Croft Mere Farm Davidson Co.

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Dimethyl or Ethyl benzene		8.		15.	
2. Trimethyl Benzene		9.		16.	
3. Dichloroethylene		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: _____

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ORGANIC LABORATORY ANALYSIS REPORT

17 8 0023

Field Log. No. _____

Laboratory Sample No. P- Ø-58 Date Received: 3-5-79 Date Completed: 3-20-79

Sample Collected By: JOE ROSSMAN Date Collected: 3-4-79

Sample Source & Identification: SPRING ON CROFTMERE FARM - DAVIDSON CO.

Analytical Procedures and Treatment of Sample:

VOA - BY PURGE AND TRAP METHOD

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. 1,1 DICHLORO -		8. TETRA CHLORO -		15.	
2. ETHYLENE	216 ppb	9. ETHYLENE	224 ppb	16.	
3. CHLOROFORM	131 ppb	10. CHLORO -		17.	
4. CARBON -		11. BENZENE	65 ppb	18.	
5. TETRACHLORIDE	71 ppb	12.		19.	
6. 1,1,2 TRICHLORO -		13.		20.	
7. ETHANE	173 ppb	14.		21.	

Remarks: _____

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. 0-86 Date Received: 3-16-79 Date Completed: 3-23-79

Sample Collected By: Joseph H. Rossman Date Collected: 3-15-79

Sample Source & Identification: Jim Fults' Well; Residence on Wade Herrod (Silver Spring) Rd.

Analytical Procedures and Treatment of Sample:

See 0-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. No significant		8.		15.	
2. peaks above		9.		16.	
3. background level		10.		17.	
4. appeared in the		11.		18.	
5. chromatogram of		12.		19.	
6. this sample		13.		20.	
7.		14.		21.	

Remarks: _____

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 001

Laboratory Sample No. F-Ø-107A Date Received: 3-30-79 Date Completed: 3-30-79

Sample Collected By: GAP Date Collected: 3-30-79

Sample Source & Identification: WELL OF JAMES R. SMITH - tap at well RUTHERFORD CO.

Analytical Procedures and Treatment of Sample:

VOLATILE ORGANICS - PURGE AND TRAP METHOD

Compound Requested or Analyzed for

	Compound	Results		Compound	Results		Compound	Results
	1. SEE BELOW	420 ppb	8.	SEE BELOW	18.60 ppb	15.		
.13 ppb —	2.	1.17 "	9.			16.		
	3.	4.70 "	10.			17.		
0.5 ppb —	4.	5.80 "	11.			18.		
.37 ppb —	5.	75.0 "	12.			19.		
	6.	3.80 "	13.			20.		
4.3 ppb —	7.	2.39 "	14.			21.		

Remarks:

1. METHYLENE CHLORIDE
2. CHLOROFORM
3. CARBON TETRACHLORIDE
4. 1,1,2 TRICHLOROETHANE
5. TETRACHLOROETHYLENE
6. 1,2 DICHLOROETHANE
7. 1,1,1 TRICHLOROETHANE
8. CHLOROBENZENE

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ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 002

Laboratory Sample No. 9-Ø 1031 Date Received: 3-30-79 Date Completed: 3-30-79

Sample Collected By: GAP Date Collected: 3-30-79

Sample Source & Identification: WELL OF ELIZABETH HARDING top of well - RUTHERFORD CO.

Analytical Procedures and Treatment of Sample:

VOLATILE ORGANICS - PURGE AND TRAP

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. SEE BELOW	47.50 ppb.	8. SEE BELOW	28.0 ppb.	15.	
2.	22.90 ppb	9.		16.	
3.	3.67 ppb	10.		17.	
4.	2.50 ppb	11.		18.	
5.	28.8 ppb	12.		19.	
6.	<1.0 ppb	13.		20.	
7.	6.3 ppb	14.		21.	

Remarks:

1. METHYLENE CHLORIDE
2. CHLOROFORM
3. CARBON TETRACHLORIDE
4. 1,1,2 TRICHLOROETHANE
5. TETRACHLOROETHYLENE
6. 1,2 DICHLOROETHANE
7. 1,1,1 TRICHLOROETHANE
8. CHLOROBENZENE

ORGANIC LABORATORY ANALYSIS REPORT

17 8 0027

Field Log. No. _____

Laboratory Sample No. 6-11B Date Received: 4/3/79 Date Completed: 4/9/79

Sample Collected By: JHR Date Collected: 4/3/79

Sample Source & Identification: Betty G. Francis Well (459-3577)
Chicken Pike
1

Analytical Procedures and Treatment of Sample:

Run by UOA - Purge & Trap Method

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: No contaminants were found

TDPH-A
B-388
Rev. 1

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. Ø-118 Date Received: 4/3/79 Date Completed: 4/9/79

Sample Collected By: JHR Date Collected: 4/3/79

Sample Source & Identification: James E. Smith Well (459-6254)
Wade Herrod Road.

Analytical Procedures and Treatment of Sample:
Run by UOA - Purge and Trap Method

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Trans	1.70 ug/L	8. Tetrachloro-	0.37	15.	
2. Trichloroethylene		9. ethane	ug/L	16.	
3. 1,1,1		10.		17.	
4. Trichloroethane	- 4.33 ug/L	11.		18.	
5.		12.		19.	
6. 1,1,2		13.		20.	
7. Trichloroethane	- 0.53 ug/L	14.		21.	

Remarks: _____

TDPH-
B-23
Rev.

17 8 0029

ORGAN. LABORATORY ANALYSIS REPO. T

Field Log. No. _____

Laboratory Sample No. - 0-130 Date Received: 4/3/79 Date Completed: 4/9/79

Sample Collected By: JHR Date Collected: 4/3/79

Sample Source & Identification: Elizabeth Harding Well (459-
Wade Herrod Road.

Analytical Procedures and Treatment of Sample:

Run by UOA - Purge and trap Method

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: No contaminants were found

TDH-
3-283
Rev.

ORGANIC LABORATORY ANALYSIS REPOR 17 8 0030

Field Log. No. _____

Laboratory Sample No. R- Ø 133 Date Received: 4-11-79 Date Completed: 4-18-79

Sample Collected By: J H R Date Collected: 4-11 79

Sample Source & Identification: Elizabeth Harding Well
Wade Herrod Rd., Rutherford Co.

Analytical Procedures and Treatment of Sample:

1 liter of sample was extracted using 90ml. 15% methylene chloride in Hexane. The extract was concentrated to 1 ml on a steam bath. Analysis was done by gas chromatography to check for pesticides.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: None Detected

TDPH-B
B-288
Rev. 4/

ORGAN LABORATORY ANALYSIS REPO 17 8 0031

Field Log. No.

Laboratory Sample No. Ø133A Date Received: 4-11-79 Date Completed: [illegible]

Sample Collected By: JHR Date Collected: 4-11-79

Sample Source & Identification: ELIZABETH HARDING WELL, WADE HERROD RD. RUTHERFORD CO.

Analytical Procedures and Treatment of Sample:

VOA - PURGE AND TRAP METHOD USING 0.2[illegible] WAX 1500 on CARBOPACK C. - HALL 700 [illegible] ON MT220 GC.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. 1,1,1 TRICHLORO-		8.		15.	
2. ETHANE	7.5ppb	9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks:

TDPH-[illegible]
D-283
Rev. [illegible]

ORGAN. LABORATORY ANALYSIS REPO. 17 8 0032

Field Log. No. _____

Laboratory Sample No. P-Ø-134 Date Received: 4-11-79 Date Completed: 4-18-79

Sample Collected By: J H R Date Collected: 4-11-79

Sample Source & Identification: James E. Smith Well

Wade Herrod Rd., Rutherford Co.

Analytical Procedures and Treatment of Sample:

See Ø-133

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: None Detected

TDPH-N
D-288
Rev. 1/

ORGAN LABORATORY ANALYSIS REPO

Field Log. No. _____

Laboratory Sample No. Ø-134A Date Received: 4-11-79 Date Completed: 4-18-79

Sample Collected By: JHR Date Collected: 4-11-79

Sample Source & Identification: JAMES E. SMITH WELL, WADE HERROD RD. RUTHERFORD CO.

Analytical Procedures and Treatment of Sample:

VOA - PURGE AND TRAP METHOD, USING 0.2% CARBO-WAX 1500 on CARBOPACK C - HALL 700 DETECTOR ON MT 220 GC.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. 1,1,1 TRICHLORO-		8.		15.	
2. ETHANE	10.6 ppb.	9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: _____

TDH-
B-288
Rev. 1

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. B-Ø-135 Date Received: 4-11-79 Date Completed: 4-16-79

Sample Collected By: H N M Date Collected: 4-11-79

Sample Source & Identification: Blank from well of Harold Mullican

Analytical Procedures and Treatment of Sample:

See Ø-133

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: None Detected

	0-54	0-55	0-56*	0-57	0-58*	0-86
Carbon Tetrachloride	X				71 ppb	
Dichloroethylene	X				816 ppb	No
Dimethylbenzene or Ethylbenzene	X	X	X	X	X	significant
Dimethylethylbenzene	X					peaks above
Methyl Naphthalene	X	X		X		background
Naphthalene	X	X	X	X		level
Toluene	X		X	X		appeared
Trichloroethane				X	178 ppb	in the
Trichloroethylene				X	[illegible]	chromatogram
Trimethylbenzene	X			X	[illegible]	of this
Other Aromatic and Aliphatic Compounds	X	X	X	X	X	sample
Chlorobenzene					65 ppb	
Chloroform					131 ppb	
Tetrachloroethylene					2[illegible] ppb	

0-56 and 0-58 are samples from the same source collected on different days.

Means that these compounds were determined to be present by GC/MS

ppb = "Not detected" " " " by the Hall Coulometric Detector in the Chlor[illegible]

0036

RESULTS OF CHEMICAL ANALYSES OF PESTICIDES AND ORGANIC CHEMICALS

Name of Owner	Betty G. Reed	James E. Smith	Elizabeth Harding	Harold N. Madison	Elizabeth Harding	James E. Smith		
Lab Number	O-116	O-118	O-120	O-121	O-133A	O-134A		
Date Collected	4-3-79	4-3-79	4-3-79	(Lab Blank)	4-11-79	4-11-79		
Date Received	4-3-79	4-3-79	4-3-79	4-5-79	4-11-79	4-11-79		
Date Completed	4-9-79	4-9-79	4-9-79	4-9-79	4-18-79	4-18-79		
1. Trichloroethane	*	*	*		*	*		
2. 2,4 dimethyl-pent-2-one		*						
3. Benzene		*				*		
4. Methylcyclopentane		*				*		
5. 1-Pentene		*						
6. Tetrahydrofuran		*				*		
7. Hex Pentene		*						
8. 2-Methyl pentane		*						
9. Trichloroethylene			*					
10. 3 Methyl-pent-1-one						*		
11. 2 Nor Butoxyethanol						*		
12.								
13.								
14.								
15.								

Remarks: * - Denote presence as detected by GC/MS

KEYPUNCH WORKSHEET
FOR ☐ IBM ☐ HONEYWELL

	0-54	0-55	0-56*	0-57	0-58*	0-86
Carbon Tetrachloride	X				71 ppb	
Dichloroethylene	X				X 216 ppb	No significant peaks above background level appeared in the chromatogram of this sample
Dimethylbenzene or Ethylbenzene	X	X	X	X	X	
Dimethyl-ethyl benzene	X					
Methyl Naphthalene	X	X		X		
Naphthalene	X	X	X	X		
Toluene	X		X	X		
Trichloroethane				X	178 ppb [redacted]	
Trichloroethylene				X	[redacted]	
Trimethyl benzene	X			X	X [redacted]	
Other Aromatic and Aliphatic Compounds	X	X	X	X	X	
Chlorobenzene					65 ppb	
Chloroform					131 ppb	
Tetrachloroethylene					224 ppb	

* O-56 and O-58 are samples from the same source collected on different days.
X - means that these compounds were determined to be present by GC/MS
- ppb - "The detection" " " " by the Hall Columetric Detector in the Chloride

17 8 0037

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. 0- 54 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Oil Holding Pond adj. to John P. Saad Waste Oil Co.

Analytical Procedures and Treatment of Sample:

This sample was analyzed using the Gas Chromatograph/Mass Spectrometer to qualitatively determine the constituents of the waste.

Compounds ~~Requested or Analyzed for~~ determined to be present:

Compound	~~Results~~	Compound	~~Results~~	Compound	~~Results~~
1. Carbon Tetrachloride		8. Trimethyl benzene		15.	
2. Dichloroethylene		9. A series of other aromatic		16.	
3. Dimethyl or ethyl benzene		10. and aliphatic compounds		17.	
4. Dimethyl-ethyl benzene		11. indicative of a Petroleum		18.	
5. Methyl Naphthalene		12. product		19.	
6. Naphthalene		13.		20.	
7. Toluene		14.		21.	

Remarks: _____

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. Ø-54 Date Received: 3/5/79 Date Completed: 3/20/79

Sample Collected By: CRB, JHR Date Collected: 3/2/79

Sample Source & Identification: Oil Holding Pond adjacent to John P. Szabo Waste Oil Co.

Analytical Procedures and Treatment of Sample:

One ml of the top layer of sample was pipetted into a mixing cylinder. This was diluted to 10 ml then any water was removed by running the sample through silica gel. This was then analyzed by Gas Chromatography. The column was the 10% FFAP with a Flame Ionization Detector.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Ethyl Benzene	- 556 mg/l	8.		15.	
2. Mesitylene	- 50 mg/l	9.		16.	
3. 1,2,4 Trimethyl Benzene	- 60 mg/l	10.		17.	
4.		11.		18.	
5. 1,2,3 " "	- 88 mg/l	12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: _____

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ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No._____

Laboratory Sample No. O-57 Date Received: 3/5/79 Date Completed: 3/20/79

Sample Collected By: CRB, JHR Date Collected: 3/2/79

Sample Source & Identification: Illegal Dump Site in Woods Rt. Side, Entrance - Saad Property

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Ethyl Benzene	22 mg/l	8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks:

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ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. O-58 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: J H R Date Collected: 3-4-79

Sample Source & Identification: Spring on Croft Mere Farm Davidson Co.

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Dimethyl or Ethyl benzene		8.		15.	
2. Trimethyl Benzene		9.		16.	
3. Dichloroethylene		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: _____

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ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No._____

Laboratory
Sample No. P- Ø-58 Date Received: 3-5-79 Date Completed: 3-20-79

Sample Collected By: JOE ROSSMAN Date Collected: 3-4-79

Sample Source & Identification: SPRING ON CROFTMERE FARM - DAVIDSON CO.

Analytical Procedures and Treatment of Sample:

VOA - BY PURGE AND TRAP METHOD

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. 1,1 DICHLORO -		8. TETRA CHLORO -		15.	
2. ETHYLENE	216 ppb	9. ETHYLENE	224 ppb	16.	
3. CHLOROFORM	131 ppb	10. CHLORO-		17.	
4. CARBON -		11. BENZENE	65 ppb.	18.	
5. TETRACHLORIDE	71 ppb	12.		19.	
6. 1,1,2 TRICHLORO -		13.		20.	
7. ETHANE	178 ppb	14.		21.	

Remarks:

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ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. O- 86 Date Received: 3-16-79 Date Completed: 3-23-79

Sample Collected By: Joseph H. Rossman Date Collected: 3-15-79

Sample Source & Identification: Jim Fults' Well; Residence on Wade Herrod (Silver Spring) Rd.

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. No significant		8.		15.	
2. peaks above		9.		16.	
3. background level		10.		17.	
4.		11.		18.	
5. appeared in the		12.		19.	
6. chromatogram of		13.		20.	
7. this sample		14.		21.	

Remarks: _____

TDPH-B-288 Rev.

17 8 0044

RLS 5/3
BWS 5/4
cc: NBO
cc: EPA, Fred Strom

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 1

Laboratory Sample No. 0-190 Date Received: 3/18/82 Date Completed: 4/12/82

Sample Collected By: Ray Osejo Date Collected: 3/18/82

Sample Source & Identification: John P. Saad + Sons Storage Tanks

GC/MS # 4070C01

Analytical Procedures and Treatment of Sample:

20 ml. of sample was placed in a Tekmar Liquid Sample Concentrator and purged with He @ 40 ml/min. for 15 minutes. The Tenax trap was desorbed @ 190°C and the contents injected into a Finnigan 3200 F GC/MS. The instrument was programmed from 30° to 220°C @ 10°C/min. The column used was a 1% SP-1000 on Carbopak B.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
*1. Methylene Chloride	8.			15.	
2. 1,1-Dichloroethane	9.			16.	
3. Trans-1,2-Dichloroethylene	10.			17.	
4. Trichloroethane	11.			18.	
5. Trichloroethylene.	12.			19.	
6. Tetrachloroethylene	13.			20.	
7.	14.			21.	

Remarks: *These compounds were determined to be present in the chromatogram of this sample.

This sample was collected in a ½ gallon jug, with an air space left in the top, therefore, quantitation for volatiles was not attempted.

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 1 Laboratory Analysis by: WET Checked by: _____

Laboratory Sample No. Ø- 190 Date Received: 3-18-82 Date Completed: 4-6-82

Sample Collected By: Ray Osejo Date Collected: 3-18-82

Sample Source & Identification: John P. Saad & Sons (Storage tank)

Analytical Procedures and Treatment of Sample:

1000 ml sample extracted with 45 mls methylene chloride and washed 2X with 30 mls. Dried on Na_2SO_4 column and concentrated to 1 ml in K-D. 50 mls of hexane was added and sample reconcentrated to 10 ml

GC analysis: ECD-Ni^{63} ; 5% QF 1 ; 1.5% OV-17 / 1.95% QF 1

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: No PCB's detetted

PH-0547

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 2 Laboratory Analysis by: WET Checked by: _____

Laboratory Sample No. Ø- 191 Date Received: 3-18-82 Date Completed: 4-6-82

Sample Collected By: Ray Osejo Date Collected: 3-18-82

Sample Source & Identification: John P. Saad & Sons (Storage tank)

Analytical Procedures and Treatment of Sample:

1000 ml sample extracted with 45 mls methylene chloride and washed 2X with 30 mls. Dried on Na_2SO_4 column and concentrated to 1 ml in K-D. 50 mls of hexane was added and sample extract reconcentrated to 10 ml.

GC analysis: ECD-Ni^{63}; 5% QF1; 1.5% OV-17/1.95% QF1

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: No PCB's detected

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 2

Laboratory Sample No. 0-191 Date Received: 3/18/82 Date Completed: 4/12/82

Sample Collected By: Ray Osejo Date Collected: 3/18/82

Sample Source & Identification: John R. Saad & Sons Storage tanks

GC/MS # 412C01

Analytical Procedures and Treatment of Sample:

20 ml. of sample was placed in a Tekmar Liquid Sample Concentrator and purged with He @ 40 ml/min. for 15 minutes. The Tenax trap was desorbed @ 190°C and the contents injected into a Finnigan 3200 F GC/MS. The instrument was programmed from 30° to 220°C @ 10°C/min. The column used was a 1% SP-1000 on Carbopak B.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
*1. Methylene Chloride	8.			15.	
2. 1,1-Dichloroethylene	9.			16.	
3. Trans-1,2-Dichloroethylene	10.			17.	
4. Trichloroethane	11.			18.	
5. Trichloroethylene	12.			19.	
6.	13.			20.	
7.	14.			21.	

Remarks: *These compounds were determined to be present in the chromatogram of this sample.

The sample was collected in a ½ gallon jug, with an air space in the top, therefore, quantitation for the volatiles was not carried out.

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 3

Laboratory Sample No. 0-189 Date Received: 3/18/82 Date Completed: 4/12/82

Sample Collected By: Ray Osejo Date Collected: 3/18/82

Sample Source & Identification: John P. Saad + Sons Storage tanks

GC/MS # 4006C01

Analytical Procedures and Treatment of Sample:

20 ml. of sample was placed in a Tekmar Liquid Sample Concentrator and purged with He @ 40 ml/min. for 15 minutes. The Tenax trap was desorbed @ 130°C and the contents injected into a Finnigan 3200 F GC/MS. The instrument was programmed from 30° to 220°C @ 10°C/min. The column used was a 1% SP-1000 on Carbopak B.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
*1. Methylene Chloride	8.			15.	
2. 1,1 Dichloroethane	9.			16.	
3. Trans-1,2-Dichloroethylene	10.			17.	
4. Trichloroethane	11.			18.	
5. Trichloroethylene	12.			19.	
6.	13.			20.	
7.	14.			21.	

Remarks: *These compounds were determined to be present in the chromatogram of this sample.

The sample was collected in a ½ gallon jug, with an air space left in the top, ∴ quantitation for the volatiles was not carried out.

TDHT-WQC
F-283

ORGANIC LABORATORY ANALYSIS REPORT 17 8 0049

Field Log. No. 3 Laboratory Analysis by: WET Checked by: _____

Laboratory Sample No. Ø- 189 Date Received: 3-18-82 Date Completed: 4-6-82

Sample Collected By: Ray Osejo Date Collected: 3-18-82

Sample Source & Identification: John P. Saad & Sons (Storage tanks)

Analytical Procedures and Treatment of Sample:

1000 ml sample extracted with 45 mls methylene chloride and washed 2X with 30 mls. Dried on Na_2SO_4 column and concentrated to 1 ml in K-D. 50 mls of hexane were added and sample extract reconcentrated to 10 mls.

GC analysis: ECD-Ni^{63} ; 5% QF1 ; 1.5% OV-17/1.95% QF1

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks:

No PCB's detected

PH-0547

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. 4

Laboratory Sample No. 0-188 Date Received: 3/18/82 Date Completed: 4/27/82

Sample Collected By: Ray Osejo Date Collected: 3/18/82

Sample Source & Identification: John P. Saad & Sons (Transdale facility tanker trailer containing waste Oil. Nashville, TN.

GC/MS # 422C01

Analytical Procedures and Treatment of Sample:

20 ml. of sample was placed in a Tekmar Liquid Sample Concentrator and purged with He @ 40 ml/min. for 15 minutes. The Tenax trap was desorbed @ 190°C and the contents injected into a Finnigan 3200 F GC/MS. The instrument was programmed from 30° to 220°C @ 10°C/min. The column used was a 1% SP-1000 on Carbopak B.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
*1. Methylene Chloride	8.			15.	
2. Trichloroethylene	9.			16.	
3. Trichloroethane	10.			17.	
4. Tetrachloroethylene	11.			18.	
5.	12.			19.	
6.	13.			20.	
7.	14.			21.	

Remarks: * These compounds were determined to be present in the chromatogram of this sample. There were so many volatile peaks from the oil itself that separation and identification were difficult.

The sample was collected in a ½ gallon jug, with an air space in the top, therefore, quantitation for the volatiles was not carried out.

ORGANIC LABORATORY ANALYSIS REPORT 17 8 0051

Field Log. No. 4 Laboratory Analysis by: WET Checked by: _____

Laboratory Sample No. Ø- 188 Date Received: 3-18-82 Date Completed: 4-6-82

Sample Collected By: Ray Osejo Date Collected: 3-18-82

Sample Source & Identification: John P. Saad & Sons (Trousdale facility tanker trailer containing waste oil)

Analytical Procedures and Treatment of Sample:

1.0 ml of sample extracted with 25 mls of hexane. Extract was dried on Na_2SO_4 column. 1 ml of extract was diluted to 10 mls with hexane

GC analysis: ECD-Ni^{63}; 5% QF 1

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: No PCB's detected

PH-0547

RLS
JEH

ORGANIC LABORATORY ANALYSIS REPORT

17 8 0052

file

Field Log. No.

Laboratory Sample No. P- 508 Date Received: 12/14/78 Date Completed: 12/14/78

Sample Collected By: Joe Rossman Date Collected: 12/14/78

Sample Source & Identification: John P. Saad + Sons Oil Waste Pond Davidson Co.

Analytical Procedures and Treatment of Sample:

10 mls of sample were extracted with 1ml Hexane and analyzed on the GC/MS to determine the presence of Chlorinated Hydrocarbons. No attempt was made to quantitate this sample - nor to identify all the aromatic or aliphatic hydrocarbons present.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1.		8.		15.	
2.		9.		16.	
3.		10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

found no PCB's

Remarks: Check for Chlorinated Hydrocarbons:

The only chlorinated compound determined in this sample was chloroform. Other solvent-type compounds determined to be present are toluene, Xylene, Iso-pentane, 1-pentene, a C_8H_{16} compound and a C_8H_{18} compound.

DPH-WQ
E-288
Rev. 4/

ORGANIC LABORATORY ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. 0- 54 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Oil Holding Pond adj. to John P. Saad Waste Oil Co.

Analytical Procedures and Treatment of Sample:

This sample was analyzed using the Gas Chromatograph/Mass Spectrometer to qualitatively determine the constituents of the waste.

Compounds ~~Requested or Analyzed for~~ determined to be present:

Compound	~~Results~~	Compound	~~Results~~	Compound	~~Results~~
1. Carbon Tetrachloride		8. Trimethyl benzene		15.	
2. Dichloroethylene		9. A series of other aromatic		16.	
3. Dimethyl or ethyl benzene		10. and aliphatic compounds		17.	
4. Dimethyl-ethyl benzene		11. indicative of a Petroleum		18.	
5. Methyl Naphthalene		12. product		19.	
6. Naphthalene		13.		20.	
7. Toluene		14.		21.	

Remarks: _____

ORGANIC LABORATORY ANALYSIS REPORT 17 8 0054

Field Log. No. _____

Laboratory Sample No. ÷ Φ-54 Date Received: 3/5/79 Date Completed: 3/20/79

Sample Collected By: CRB, JHR Date Collected: 3/2/79

Sample Source & Identification: Oil Holding Pond adjacent to John P. Saad Waste Oil Co.

Analytical Procedures and Treatment of Sample:

One ml of the top layer of sample was pipetted into a mixing cylinder. This was diluted to 10 ml then any water was removed by running the sample through silica gel. This was then analyzed by Gas Chromatography. The column was the 10% FFAP with a Flame Ionization Detector.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Ethyl Benzene	- 556 mg/l	8.		15.	
2. Mesitylene	- 50 mg/l	9.		16.	
3. 1,2,4 Trimethyl Benzene	- 60 mg/l	10.		17.	
4.		11.		18.	
5. 1,2,3 " "	- 88 mg/l	12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: _____

TDPH-
B-288

ORGANIC LABORATORY ANALYSIS REPORT 17 8 0055

Field Log. No. _____

Laboratory Sample No. ▶ O-55 Date Received: 3-5-79 Date Completed: 3-23-79

Sample Collected By: CRB-JHR Date Collected: 3-2-79

Sample Source & Identification: Oil Holding Tank immediately behind J. P. Saad Waste Oil Co.

Analytical Procedures and Treatment of Sample:

See O-54

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Dimethyl or ethyl benzene	8.			15.	
2. Methyl Naphthalene	9.			16.	
3. Naphthalene	10.			17.	
4. Other Aromatic and	11.			18.	
5. Aliphatic Compounds	12.			19.	
6. indicative of a	13.			20.	
7. petroleum Product	14.			21.	

Remarks: _____

TDPH-
B-238

17 8 0056

LS 4/11
Bus 5/5
File: J.P. Saad Dawson Co.

ORGANIC LABORATOR ; ANALYSIS REPORT

Field Log. No. _____

Laboratory Sample No. 3-92 Date Received: 3-31-80 Date Completed: 4-1-80

Sample Collected By: Barry Sulkin Date Collected: 3-31-80

Sample Source & Identification: Ditch behind Kline Custom Coach Next to John P. Saad on Trousdale Dr.

Analytical Procedures and Treatment of Sample:

100 ml of sample was extracted with hexane. Quantitative and Qualitative Analysis done by F.I.D. detector using a 10% OV-17 column.

Compound Requested or Analyzed for

Compound	Results	Compound	Results	Compound	Results
1. Toluene	70 mg/l	8.		15.	
2. o-xylene	113 mg/l	9.		16.	
3. m-xylene	174 mg/l	10.		17.	
4.		11.		18.	
5.		12.		19.	
6.		13.		20.	
7.		14.		21.	

Remarks: _____

TPH-NO
3-288

POOR LEGIBILITY

PORTIONS OF THIS DOCUMENT MAY BE UNREADABLE, DUE TO THE QUALITY OF THE ORIGINAL

[illegible] 1 ug/L

[illegible] sulfonamide 10 ug/L
hexadecanoic acid 11 ug/L
[illegible] ug/L

[illegible] 1 ug/L

Fluoranthene 1 ug/L
Fluoranthene 1 "
Pyrene 1 "
2,4-Dimethylphenol 3.5 ug/L
[illegible] 2 ug/L
[illegible] sulfonamide 11 ug/L
[illegible] 10 ug/L
[illegible] 10 ug/L
[illegible] 10 ug/L

* MOISTURE	70320	----	
tetrahydrodimethylnaphthalene (2 isomers)		15JN	UG/L
C_2 alkylnaphthalene (2 isomers)		10JN	UG/L
octahydrohexamethylindene		21JN	UG/L
C_3 alkylnaphthalene (7 isomers)		50JN	UG/L
C_4 alkylnaphthalene (5 isomers)		150JN	UG/L
C_2 alkylbiphenyl		10JN	UG/L
methyldibenzothiophene		20JN	UG/L
methylphenanthrene		10JN	UG/L
C_2 alkylphenanthrene (4 isomers)		40JN	UG/L
C_3 alkylphenanthrene (4 isomers)		10JN	UG/L
methylpyrene		10JN	UG/L
			UG/L
the chromatogram indicates the presence of			UG/L
a petroleum type product			UG/L

Chrysene 5 ug/L
[illegible]
[illegible]

C_2 alkylnaphthalene (2 isomers)		50JN	UG/L
dibenzothiophene		50JN	UG/L
methyldibenzothiophene (2 isomers)		50JN	UG/L
C_2 alkylnaphthothiophene (2 isomers)		50JN	UG/L
C_2 alkylphenanthrene		50JN	UG/L

Hydrocarbons and

[illegible]	[illegible]	[illegible] mg/L
	[illegible]	
	[illegible]	
	[illegible]	
	[illegible]	
	[illegible]	
	[illegible]	
	[illegible]	
	[illegible]	
	[illegible]	2800
	[illegible]	[illegible]
	[illegible]	[illegible]

[illegible]	TCF	[illegible]
[illegible]	PCP	2700 mg/L
[illegible]	[illegible]	[illegible]
		[illegible]
[illegible]		[illegible]
[illegible]		
		[illegible]
		[illegible]
		[illegible]
		[illegible]
		[illegible]
		[illegible]
		[illegible]
		[illegible]
		[illegible]
		[illegible]
		[illegible]
		[illegible]

DATE: 05/27/82 17 8 0059

EXTRACTABLE ORGANIC ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE (DRY WT)

EPA-SAD, RGN. IV
ATHENS, GA

PROJECT #: 82-131 PROG ELEMENT #: NSF

SAMPLE RECEIVED (DATE & TIME): 05/21/82 1644

SOURCE: SAAD SITE

SAMPLE TYPE: SEDIM

SAMPLE START (DATE & TIME): 05/18/82 1500

CITY: NASHVILLE STATE: TN

SAMPLE STOP (DATE & TIME): 00/00/00 0

STATION: S-7/S SPRING 7

SAD NO.: 82C1444

CHEMIST: E.W. Loy, Jr. COMPLETED 6-28-82

COMPOUND	STORET#		UNITS		COMPOUND	STORET#		UNITS
N-NITROSODIMETHYLAMINE	34441	NA	UG/KG	*	BENZO(A)ANTHRACENE	34529	59,000U	UG/KG
1,2-DIPHENYLHYDRAZINE /8	34349	NA	UG/KG	*	CHRYSENE	34323	59,000U	UG/KG
BENZIDINE	39121	NA	UG/KG	*	3,3'-DICHLOROBENZIDINE	34634	59,000U	UG/KG
1,3-DICHLOROBENZENE	34569	59,000U	UG/KG	*	DI-N-OCTYLPHTHALATE	34599	59,000U	UG/KG
1,4-DICHLOROBENZENE	34574	59,000U	UG/KG	*	BENZO(B)FLUORANTHENE /10	34233	59,000U	UG/KG
1,2-DICHLOROBENZENE	34539	59,000U	UG/KG	*	BENZO(K)FLUORANTHENE /10	34245	59,000U	UG/KG
BIS(2-CHLOROETHYL) ETHER	34276	59,000U	UG/KG	*	BENZO-A-PYRENE	34250	59,000U	UG/KG
HEXACHLOROETHANE	34399	59,000U	UG/KG	*	INDENO (1,2,3-CD) PYRENE	34406	59,000U	UG/KG
BIS(2-CHLOROISOPROPYL) ETHER	34286	59,000U	UG/KG	*	DIBENZO(A,H)ANTHRACENE	34559	59,000U	UG/KG
N-NITROSODI-N-PROPYLAMINE	34431	59,000U	UG/KG	*	BENZO(GHI)PERYLENE	34524	59,000U	UG/KG
NITROBENZENE	34450	59,000U	UG/KG	*	2-CHLOROPHENOL	34589	59,000U	UG/KG
HEXACHLOROBUTADIENE	39705	59,000U	UG/KG	*	2-NITROPHENOL	34594	59,000U	UG/KG
1,2,4-TRICHLOROBENZENE	34554	59,000U	UG/KG	*	PHENOL	34695	59,000U	UG/KG
NAPHTHALENE	34445	59,000U	UG/KG	*	2,4-DIMETHYLPHENOL	34609	59,000U	UG/KG
BIS(2-CHLOROETHOXY) METHANE	34281	59,000U	UG/KG	*	2,4-DICHLOROPHENOL	34604	59,000U	UG/KG
ISOPHORONE	34411	59,000U	UG/KG	*	2,4,6-TRICHLOROPHENOL	34624	59,000U	UG/KG
HEXACHLOROCYCLOPENTADIENE (HCCP)	34389	59,000U	UG/KG	*	4-CHLORO-3-METHYLPHENOL	34455	59,000U	UG/KG
2-CHLORONAPHTHALENE	34584	59,000U	UG/KG	*	2,4-DINITROPHENOL	34619	180,000U	UG/KG
ACENAPHTHYLENE	34203	59,000U	UG/KG	*	2-METHYL-4,6-DINITROPHENOL	34660	180,000U	UG/KG
ACENAPHTHENE	34208	59,000U	UG/KG	*	PENTACHLOROPHENOL	39061	180,000U	UG/KG
DIMETHYL PHTHALATE	34344	59,000U	UG/KG	*	4-NITROPHENOL	34649	120,000U	UG/KG
2,4-DINITROTOLUENE	34614	59,000U	UG/KG	*	% MOISTURE	70320	83.	
2,6-DINITROTOLUENE	34629	59,000U	UG/KG	*				UG/KG
4-CHLOROPHENYL PHENYL ETHER	34644	59,000U	UG/KG	*				UG/KG
FLUORENE	34384	59,000U	UG/KG	*	methyldecahydronaphthalene		59,000JN	UG/KG
DIETHYL PHTHALATE	34339	59,000U	UG/KG	*	methyl(cyclohexylmethyl)cyclohexane		59,000JN	UG/KG
N-NITROSODIPHENYLAMINE /9	34436	59,000U	UG/KG	*	methylcyclohexyl		59,000JN	UG/KG
HEXACHLOROBENZENE (HCB)	39701	59,000U	UG/KG	*	hexamethyloctahydroindene		59,000JN	UG/KG
4-BROMOPHENYL PHENYL ETHER	34639	59,000U	UG/KG	*	C_3 alkylnaphthalene		59,000JN	UG/KG
PHENANTHRENE	34464	59,000U	UG/KG	*	C_4 alkylnaphthalene (3 isomers)		59,000JN	UG/KG
ANTHRACENE	34223	59,000U	UG/KG	*	C_4 alkylbiphenyl		59,000JN	UG/KG
DI-N-BUTYLPHTHALATE	39112	59,000U	UG/KG	*	dimethylnaphthothiophene (2 isomers)		59,000JN	UG/KG
FLUORANTHENE	34379	59,000U	UG/KG	*				UG/KG
PYRENE	34472	59,000U	UG/KG	*	the chromatogram indicates the presence			UG/KG
BENZYL-BUTYL PHTHALATE	34295	59,000U	UG/KG	*	of a petroleum type product.			UG/KG
BIS(2-ETHYLHEXYL) PHTHALATE	39102	59,000U	UG/KG	*				UG/KG

L&N.

NOTES:
1) J-ESTIMATED VALUE
2) K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN.
3) L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN.
4) U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.
5) NA-COMPOUND NOT ANALYZED FOR.
6) N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
7) A-AVERAGE VALUE
8) AND/OR AZOBENZENE
9) AND/OR DIPHENYLAMINE
10) BENZO(B)FLUORANTHENE AND/OR BENZO(K)FLUORANTHENE

DATE: 05/27/82 17 8 0060

EXTRACTABLE ORGANIC ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE (DRY WT)

EPA-SAD, RGN. IV
ATHENS, GA

PROJECT #: 82-131 PROG ELEMENT #: NSF

SAMPLE RECEIVED (DATE & TIME): 05/21/82 1644

SOURCE: SAAD SITE

SAMPLE TYPE: INDSL

SAMPLE START (DATE & TIME): 05/19/82 1020

CITY: NASHVILLE STATE: TN

SAMPLE STOP (DATE & TIME): 00/00/00 0

STATION: LN-OS-S OIL SEPARATOR L&N Railroad yard

SAD NO.: 82C1445

CHEMIST: E.W. Loy, Jr. COMPLETED 6-28-82

COMPOUND	STORET#		UNITS		COMPOUND	STORET#		UNITS
N-NITROSODIMETHYLAMINE	34441	NA	UG/KG	*	BENZO(A)ANTHRACENE	34529	2,000J	UG/KG
1,2-DIPHENYLHYDRAZINE /8	34349	NA	UG/KG	*	CHRYSENE	34323	2,000J	UG/KG
BENZIDINE	39121	NA	UG/KG	*	3,3'-DICHLOROBENZIDINE	34634	20,000U	UG/KG
1,3-DICHLOROBENZENE	34569	20,000U	UG/KG	*	DI-N-OCTYLPHTHALATE	34599	20,000U	UG/KG
1,4-DICHLOROBENZENE	34574	20,000U	UG/KG	*	BENZO(B)FLUORANTHENE /10	34233	2,000J	UG/KG
1,2-DICHLOROBENZENE	34539	20,000U	UG/KG	*	BENZO(K)FLUORANTHENE /10	34245	2,000J	UG/KG
BIS(2-CHLOROETHYL) ETHER	34276	20,000U	UG/KG	*	BENZO-A-PYRENE	34250	20,000U	UG/KG
HEXACHLOROETHANE	34399	20,000U	UG/KG	*	INDENO (1,2,3-CD) PYRENE	34406	20,000U	UG/KG
BIS(2-CHLOROISOPROPYL) ETHER	34286	20,000U	UG/KG	*	DIBENZO(A,H)ANTHRACENE	34559	20,000U	UG/KG
N-NITROSODI-N-PROPYLAMINE	34431	20,000U	UG/KG	*	BENZO(GHI)PERYLENE	34524	20,000U	UG/KG
NITROBENZENE	34450	20,000U	UG/KG	*	2-CHLOROPHENOL	34589	20,000U	UG/KG
HEXACHLOROBUTADIENE	39705	20,000U	UG/KG	*	2-NITROPHENOL	34594	20,000U	UG/KG
1,2,4-TRICHLOROBENZENE	34554	20,000U	UG/KG	*	PHENOL	34695	20,000U	UG/KG
NAPHTHALENE	34445	2000J	UG/KG	*	2,4-DIMETHYLPHENOL	34609	20,000U	UG/KG
BIS(2-CHLOROETHOXY) METHANE	34281	20,000U	UG/KG	*	2,4-DICHLOROPHENOL	34604	20,000U	UG/KG
ISOPHORONE	34411	20,000U	UG/KG	*	2,4,6-TRICHLOROPHENOL	34624	20,000U	UG/KG
HEXACHLOROCYCLOPENTADIENE (HCCP)	34389	20,000U	UG/KG	*	4-CHLORO-3-METHYLPHENOL	34455	20,000U	UG/KG
2-CHLORONAPHTHALENE	34584	20,000U	UG/KG	*	2,4-DINITROPHENOL	34619	62,000U	UG/KG
ACENAPHTHYLENE	34203	20,000U	UG/KG	*	2-METHYL-4,6-DINITROPHENOL	34660	62,000U	UG/KG
ACENAPHTHENE	34208	20,000U	UG/KG	*	PENTACHLOROPHENOL	39061	62,000U	UG/KG
DIMETHYL PHTHALATE	34344	20,000U	UG/KG	*	4-NITROPHENOL	34649	41,000U	UG/KG
2,4-DINITROTOLUENE	34614	20,000U	UG/KG	*	% MOISTURE	70320		
2,6-DINITROTOLUENE	34629	20,000U	UG/KG	*				UG/KG
4-CHLOROPHENYL PHENYL ETHER	34644	20,000U	UG/KG	*				UG/KG
FLUORENE	34384	4500J	UG/KG	*	C_4 alkylbenzene		20,000JN	UG/KG
DIETHYL PHTHALATE	34339	20,000U	UG/KG	*	C_5 alkylbenzene (3 isomers)		20,000JN	UG/KG
N-NITROSODIPHENYLAMINE /9	34436	20,000U	UG/KG	*	methyldecahydronaphthalene		20,000JN	UG/KG
HEXACHLOROBENZENE (HCB)	39701	20,000U	UG/KG	*	C_3 alkylstyrene (2 isomers)		20,000JN	UG/KG
4-BROMOPHENYL PHENYL ETHER	34639	20,000U	UG/KG	*	C_4 alkylstyrene (4 isomers)		26,000JN	UG/KG
PHENANTHRENE	34464	18,000J	UG/KG	*	methylnaphthalene		20,000JN	UG/KG
ANTHRACENE	34223	2,000J	UG/KG	*	C_2 alkylnaphthalene (3 isomers)		60,000JN	UG/KG
DI-N-BUTYLPHTHALATE	39112	20,000U	UG/KG	*	C_3 alkylnapthalene (7 isomers)		70,000JN	UG/KG
FLUORANTHENE	34379	3,400J	UG/KG	*	C_4 alkylnaphthalene (7 isomers)		70,000JN	UG/KG
PYRENE	34472	9,000J	UG/KG	*	C_2 alkylbiphenyl (2 isomers)		26,000JN	UG/KG
BENZYL-BUTYL PHTHALATE	34295	20,000U	UG/KG	*	methyldibenzofuran		20,000JN	UG/KG
BIS(2-ETHYLHEXYL) PHTHALATE	39102	20,000U	UG/KG	*	methylfluorene		20,000JN	UG/KG

NOTES:
1) J-ESTIMATED VALUE
2) K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN.
3) L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN.
4) U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.
5) NA-COMPOUND NOT ANALYZED FOR.
6) N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
7) A-AVERAGE VALUE
8) AND/OR AZOBENZENE
9) AND/OR DIPHENYLAMINE
10) BENZO(B)FLUORANTHENE AND/OR BENZO(K)FLUORANTHENE

DATE: 05/27/82

EXTRACTABLE ORGANIC ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE (DRY WT)

EPA-SAD, RGN. IV
ATHENS, GA

PROJECT #: 82-131 PROG ELEMENT #: NSF

SAMPLE RECEIVED (DATE & TIME): 05/21/82 1644

SOURCE: SAAD SITE

SAMPLE TYPE: INDSL

SAMPLE START (DATE & TIME): 05/19/82 1020

CITY: NASHVILLE STATE: TN

SAMPLE STOP (DATE & TIME): 00/00/00 0

STATION: LN-05-S OIL SEPARATOR

SAD NO.: 82C1445

CHEMIST: E.W. Loy, Jr. COMPLETED 6-28-82

17 8 0061

COMPOUND	STORET#	UNITS
BIS(2-ETHYLHEXYL) PHTHALATE	39102	UG/KG
		UG/KG
C_2 alkylfluorene	20,000JN	UG/KG
methylphenanthrene (2 isomers)	20,000JN	UG/KG
C_2 alkylphenanthrene (5 isomers)	26,000JN	UG/KG
C_3 alkylphenanthrene (5 isomers)	26,000JN	UG/KG
methylnaphthothiophene	20,000JN	UG/KG
methylfluoranthene (2 isomers)	20,000JN	UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
the chromatogram indicates the presence		UG/KG
of a petroleum type product.		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG
		UG/KG

NOTES:
1) J-ESTIMATED VALUE
2) K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN.
3) L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN.
4) U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.
5) NA-COMPOUND NOT ANALYZED FOR.
6) N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
7) A-AVERAGE VALUE
8) AND/OR AZOBENZENE
9) AND/OR DIPHENYLAMINE
10) BENZO(B)FLUORANTHENE AND/OR BENZO(K)FLUORANTHENE

DATE: 05/27/82

EXTRACTABLE ORGANIC ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE (DRY WT)

EPA-SAD, RGN. IV
ATHENS, GA

PROJECT #: 82-131 PROG ELEMENT #: NSF

SAMPLE RECEIVED (DATE & TIME): 05/21/82 1644

SOURCE: SAAD SITE

SAMPLE TYPE: INDSL

SAMPLE START (DATE & TIME): 05/19/82 1130

CITY: NASHVILLE STATE: TN

SAMPLE STOP (DATE & TIME): 00/00/00 0

STATION: LN-DL-S 2 DEGREES DRAINAGE

SAD NO.: 82C1446

CHEMIST: E.W. Loy, Jr. COMPLETED 6-28-82

COMPOUND	STORET#		UNITS	
N-NITROSODIMETHYLAMINE	34441	NA	UG/KG	*
1,2-DIPHENYLHYDRAZINE /8	34349	NA	UG/KG	*
BENZIDINE	39121	NA	UG/KG	*
1,3-DICHLOROBENZENE	34569	46,000U	UG/KG	*
1,4-DICHLOROBENZENE	34574	46,000U	UG/KG	*
1,2-DICHLOROBENZENE	34539	46,000U	UG/KG	*
BIS(2-CHLOROETHYL) ETHER	34276	46,000U	UG/KG	*
HEXACHLOROETHANE	34399	46,000U	UG/KG	*
BIS(2-CHLOROISOPROPYL) ETHER	34286	46,000U	UG/KG	*
N-NITROSODI-N-PROPYLAMINE	34431	46,000U	UG/KG	*
NITROBENZENE	34450	46,000U	UG/KG	*
HEXACHLOROBUTADIENE	39705	46,000U	UG/KG	*
1,2,4-TRICHLOROBENZENE	34554	46,000U	UG/KG	*
NAPHTHALENE	34445	5,400J	UG/KG	*
BIS(2-CHLOROETHOXY) METHANE	34281	46,000U	UG/KG	*
ISOPHORONE	34411	46,000U	UG/KG	*
HEXACHLOROCYCLOPENTADIENE (HCCP)	34389	46,000U	UG/KG	*
2-CHLORONAPHTHALENE	34584	46,000U	UG/KG	*
ACENAPHTHYLENE	34203	46,000U	UG/KG	*
ACENAPHTHENE	34208	4,600J	UG/KG	*
DIMETHYL PHTHALATE	34344	46,000U	UG/KG	*
2,4-DINITROTOLUENE	34614	46,000U	UG/KG	*
2,6-DINITROTOLUENE	34629	46,000U	UG/KG	*
4-CHLOROPHENYL PHENYL ETHER	34644	46,000U	UG/KG	*
FLUORENE	34384	12,000J	UG/KG	*
DIETHYL PHTHALATE	34339	46,000U	UG/KG	*
N-NITROSODIPHENYLAMINE /9	34436	46,000U	UG/KG	*
HEXACHLOROBENZENE (HCB)	39701	46,000U	UG/KG	*
4-BROMOPHENYL PHENYL ETHER	34639	46,000U	UG/KG	*
PHENANTHRENE	34464	36,000J	UG/KG	*
ANTHRACENE	34223	46,000U	UG/KG	*
DI-N-BUTYLPHTHALATE	39112	46,000U	UG/KG	*
FLUORANTHENE	34379	4,600J	UG/KG	*
PYRENE	34472	7,500J	UG/KG	*
BENZYL-BUTYL PHTHALATE	34295	46,000U	UG/KG	*
BIS(2-ETHYLHEXYL) PHTHALATE	39102	46,000U	UG/KG	*

COMPOUND	STORET#		UNITS
BENZO(A)ANTHRACENE	34529	46,000U	UG/KG
CHRYSENE	34323	4,600J	UG/KG
3,3'-DICHLOROBENZIDINE	34634	46,000U	UG/KG
DI-N-OCTYLPHTHALATE	34599	46,000U	UG/KG
BENZO(B)FLUORANTHENE /10	34233	46,000U	UG/KG
BENZO(K)FLUORANTHENE /10	34245	46,000U	UG/KG
BENZO-A-PYRENE	34250	46,000U	UG/KG
INDENO (1,2,3-CD) PYRENE	34406	46,000U	UG/KG
DIBENZO(A,H)ANTHRACENE	34559	46,000U	UG/KG
BENZO(GHI)PERYLENE	34524	46,000U	UG/KG
2-CHLOROPHENOL	34589	46,000U	UG/KG
2-NITROPHENOL	34594	46,000U	UG/KG
PHENOL	34695	46,000U	UG/KG
2,4-DIMETHYLPHENOL	34609	46,000U	UG/KG
2,4-DICHLOROPHENOL	34604	46,000U	UG/KG
2,4,6-TRICHLOROPHENOL	34624	46,000U	UG/KG
4-CHLORO-3-METHYLPHENOL	34455	46,000U	UG/KG
2,4-DINITROPHENOL	34619	140,000U	UG/KG
2-METHYL-4,6-DINITROPHENOL	34660	140,000U	UG/KG
PENTACHLOROPHENOL	39061	140,000U	UG/KG
4-NITROPHENOL	34649	92,000U	UG/KG
% MOISTURE	70320	25	
			UG/KG
			UG/KG
C_2 alkylstyrene		46,000JN	UG/KG
C_3 alkylstyrene (3 isomers)		46,000JN	UG/KG
methylnaphthalene (2 isomers)		50,000JN	UG/KG
C_2 alkylnapththalene (5 isomers)		110,000JN	UG/KG
C_3 alkylnaphthalene (7 isomers)		120,000JN	UG/KG
C_4 alkylnaphthalene (4 isomers)		80,000JN	UG/KG
dimethyltetrahydronaphthalene (2 isomers)		46,000JN	UG/KG
methylbiphenyl (2 isomers)		46,000JN	UG/KG
C_2 alkylbiphenyl (5 isomers)		46,000JN	UG/KG
methylfluorene (2 isomers)		46,000JN	UG/KG
C_2 alkylfluorene (4 isomers)		50,000JN	UG/KG
dibenzothiophene		60,000JN	UG/KG

NOTES:
1) J-ESTIMATED VALUE
2) K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN.
3) L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN.
4) U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM DETECTION LIMIT.
5) NA-COMPOUND NOT ANALYZED FOR.
6) N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL
7) A-AVERAGE VALUE
8) AND/OR AZOBENZENE
9) AND/OR DIPHENYLAMINE
10) BENZO(B)FLUORANTHENE AND/OR BENZO(K)FLUORANTHENE

178 0062

DATE: 05/27/82

EXTRACTABLE ORGANIC ANALYSIS
DATA REPORTING SHEET
SEDIMENT/SOIL/SLUDGE (DRY WT)

EPA-SAD, RGN. IV
ATHENS, GA

PROJECT #: 82-131 PROG ELEMENT #: NSF

SAMPLE RECEIVED (DATE & TIME): 05/21/82 1644

SOURCE: SAAD SITE

SAMPLE TYPE: INDSL

SAMPLE START (DATE & TIME): 05/19/82 1130

CITY: NASHVILLE STATE: TN

SAMPLE STOP (DATE & TIME): 00/00/00 0

STATION: LN-DL-S 2 DEGREES DRAINAGE

SAD NO.: 82C1446

CHEMIST: E.W. Loy, Jr. COMPLETED 6-28-82

COMPOUND	STORET#	UNITS
BIS(2-ETHYLHEXYL) PHTHALATE	39102	UG/KG
		UG/KG
		UG/KG
methylphenanthrene (3 isomers)	70,000JN	UG/KG
C_2 alkylphenanthrene (5 isomers)	50,000JN	UG/KG
C_2 alkylphenanthrene	46,000JN	UG/KG
dimethylnaphthothiophene (2 isomers)	50,000JN	UG/KG
		UG/KG
		UG/KG
the chromatogram indicates the presence		UG/KG
of a petroleum type product		UG/KG
		UG/KG
		UG/KG
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		UG/KG
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7) A-AVERAGE VALUE
8) AND/OR AZOBENZENE
9) AND/OR DIPHENYLAMINE
10) BENZO(B)FLUORANTHENE AND/OR BENZO(K)FLUORANTHENE

178 0063