1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD04

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.04

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH972.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 25 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/10/96

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.6

Number TICs found: 29

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Phenanthrene, -methyl-	15.478	2600	J
2.		Anthracene, methyl-	15.542	1800	J
3.		UNKNOWN PAH	15.752	1900	J
4.	35465-71-5	2-Phenylnaphthalene	16.249	2000	NJ
5.	243-42-5	Benzo[b]naphtho[2,3-d]furan	18.115	4500	NJ
6.		1,1'-Biphenyl, -pentachloro-	18.444	3800	J
7.		11H-Benzo[]fluorene	18.657	8600	J
8.		1,1'-Biphenyl, -Pentachloro-	18.955	4100	J
9.	82-05-3	7H-Benz[de]anthracen-7-one	19.978	8900	NJ
10.		UNKNOWN	20.138	14000	J
11.	239-35-0	Benzo[b]naphtho[2,1-d]thioph	20.213	5100	NJ
12.		UNKNOWN PAH	20.319	5800	J
13.	82-05-3	7H-Benz[de]anthracen-7-one	20.490	7800	NJ
14.		UNKNOWN PHTHALATE	21.205	5600	J
15.		UNKNOWN PAH	21.376	3700	J
16.		UNKNOWN PAH	21.504	4000	J
17.	2498-77-3	Benz[a]anthracene, 1-methyl-	21.867	6100	NJ
18.		UNKNOWN	21.942	8700	J
19.		UNKNOWN	22.284	3900	J
20.		UNKNOWN PAH	23.235	3600	J
21.	205-82-3	Benzo[j]fluoranthene	23.609	5200	NJ
22.		UNKNOWN PAH	23.833	6000	J
23.	192-97-2	Benzo[e]pyrene	23.972	29000	NJ
24.		UNKNOWN PHTHALATE	24.122	12000	J
25.		UNKNOWN PAH	24.346	5800	J
26.		UNKNOWN PAH	24.837	4900	J
27.		UNKNOWN PAH	25.871	3700	J
28.		UNKNOWN PAH	26.084	4300	J
29.	191-07-1	Coronene	29.785	4400	NJ
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD05 SSS

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH962.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 13 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3800	U
111-44-4	bis(2-Chloroethyl)Ether	3800	U
95-57-8	2-Chlorophenol	3800	U
541-73-1	1,3-Dichlorobenzene	3800	U
106-46-7	1,4-Dichlorobenzene	3800	U
95-50-1	1,2-Dichlorobenzene	3800	U
95-48-7	2-Methylphenol	3800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3800	U
106-44-5	4-Methylphenol	3800	U
621-64-7	N-Nitroso-di-n-propylamine	3800	U
67-72-1	Hexachloroethane	3800	U
98-95-3	Nitrobenzene	3800	U
78-59-1	Isophorone	3800	U
88-75-5	2-Nitrophenol	3800	U
105-67-9	2,4-Dimethylphenol	3800	U
111-91-1	bis(2-Chloroethoxy)methane	3800	U
120-83-2	2,4-Dichlorophenol	3800	U
120-82-1	1,2,4-Trichlorobenzene	3800	U
91-20-3	Naphthalene	3800	U
106-47-8	4-Chloroaniline	3800	U
87-68-3	Hexachlorobutadiene	3800	U
59-50-7	4-Chloro-3-Methylphenol	3800	U
91-57-6	2-Methylnaphthalene	3800	U
77-47-4	Hexachlorocyclopentadiene	3800	U
88-06-2	2,4,6-Trichlorophenol	3800	U
95-95-4	2,4,5-Trichlorophenol	9500	U
91-58-7	2-Chloronaphthalene	3800	U
88-74-4	2-Nitroaniline	9500	U
131-11-3	Dimethylphthalate	3800	U
208-96-8	Acenaphthylene	3800	U
606-20-2	2,6-Dinitrotoluene	3800	U
99-09-2	3-Nitroaniline	9500	U
83-32-9	Acenaphthene	350	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD05 SSS

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH962.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 13 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	9500	U
100-02-7	4-Nitrophenol	9500	U
132-64-9	Dibenzofuran	3800	U
121-14-2	2,4-Dinitrotoluene	3800	U
84-66-2	Diethylphthalate	3800	U
7005-72-3	4-Chlorophenyl-phenylether	3800	U
86-73-7	Fluorene	210	J
100-01-6	4-Nitroaniline	9500	U
534-52-1	4,6-Dinitro-2-methylphenol	9500	U
86-30-6	N-Nitrosodiphenylamine (1)	3800	U
101-55-3	4-Bromophenyl-phenylether	3800	U
118-74-1	Hexachlorobenzene	3800	U
87-86-5	Pentachlorophenol	9500	U
85-01-8	Phenanthrene	7000	
120-12-7	Anthracene	1200	J
86-74-8	Carbazole	1400	J
84-74-2	Di-n-butylphthalate	2500	J
206-44-0	Fluoranthene	13000	
129-00-0	Pyrene	17000	
85-68-7	Butylbenzylphthalate	320	J
91-94-1	3,3'-Dichlorobenzidine	3800	U
56-55-3	Benzo(a)anthracene	9500	
218-01-9	Chrysene	11000	
117-81-7	bis(2-Ethylhexyl)phthalate	3800 ~~2400~~	JB
117-84-0	Di-n-octylphthalate	1300	J
205-99-2	Benzo(b)fluoranthene	11000	
207-08-9	Benzo(k)fluoranthene	7800	
50-32-8	Benzo(a)pyrene	7100	
193-39-5	Indeno(1,2,3-cd)pyrene	4600	
53-70-3	Dibenz(a,h)anthracene	2600	J
191-24-2	Benzo(g,h,i)perylene	4900	

u KM 8/09/96

(1) - Cannot be separated from Diphenylamine

FORM I SV-2 OLM03.0

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD05

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.05

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH962.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 13 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 28

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	486-25-9	9H-Fluoren-9-one	13.908	850	NJ
2.		Anthracene, -methyl-	15.626	1100	J
3.		Anthracene, -methyl-	15.689	1000	J
4.		UNKNOWN PAH	15.900	930	J
5.	612-94-2	Naphthalene, 2-phenyl-	16.405	800	NJ
6.	5737-13-3	Cyclopenta(def)phenanthrenon	17.260	1400	NJ
7.		Benzo[b]naphtho[]furan	18.138	1100	J
8.		Benzo[b]naphtho[]furan	18.286	1800	J
9.		11H-Benzo[]fluorene	18.562	2400	J
10.		11H-Benzo[]fluorene	18.827	5300	J
11.		Pyrene, -methyl-	19.082	2100	J
12.		-Terphenyl	19.942	1600	J
13.	82-05-3	7H-Benz[de]anthracen-7-one	20.155	4400	NJ
14.		UNKNOWN	20.271	1200	J
15.	239-35-0	Benzo[b]naphtho[2,1-d]thioph	20.388	2100	NJ
16.		UNKNOWN PAH	20.484	2900	J
17.		UNKNOWN	20.580	1300	J
18.		7H-Benz[]anthracen-7-one	20.675	2300	J
19.		UNKNOWN PHTHALATE	21.356	1400	J
20.		UNKNOWN PAH	21.558	1700	J
21.		UNKNOWN PAH	21.686	2000	J
22.		Triphenylene, -methyl-	22.037	1800	J
23.		UNKNOWN	22.101	2600	J
24.		UNKNOWN PHTHALATE	24.090	2800	J
25.		UNKNOWN PHTHALATE	24.559	2400	J
26.		UNKNOWN PAH	25.037	2400	J
27.		UNKNOWN PAH	26.058	3800	J
28.	0-00-0	1,2:3,4-Dibenzpyrene	29.270	3200	NJ
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD06 SS6

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH925.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 32 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4800	U
111-44-4	bis(2-Chloroethyl)Ether	4800	U
95-57-8	2-Chlorophenol	4800	U
541-73-1	1,3-Dichlorobenzene	4800	U
106-46-7	1,4-Dichlorobenzene	4800	U
95-50-1	1,2-Dichlorobenzene	4800	U
95-48-7	2-Methylphenol	4800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4800	U
106-44-5	4-Methylphenol	4800	U
621-64-7	N-Nitroso-di-n-propylamine	4800	U
67-72-1	Hexachloroethane	4800	U
98-95-3	Nitrobenzene	4800	U
78-59-1	Isophorone	4800	U
88-75-5	2-Nitrophenol	4800	U
105-67-9	2,4-Dimethylphenol	4800	U
111-91-1	bis(2-Chloroethoxy)methane	4800	U
120-83-2	2,4-Dichlorophenol	4800	U
120-82-1	1,2,4-Trichlorobenzene	4800	U
91-20-3	Naphthalene	4800	U
106-47-8	4-Chloroaniline	4800	U
87-68-3	Hexachlorobutadiene	4800	U
59-50-7	4-Chloro-3-Methylphenol	4800	U
91-57-6	2-Methylnaphthalene	650	J
77-47-4	Hexachlorocyclopentadiene	4800	U
88-06-2	2,4,6-Trichlorophenol	4800	U
95-95-4	2,4,5-Trichlorophenol	12000	U
91-58-7	2-Chloronaphthalene	4800	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	4800	U
208-96-8	Acenaphthylene	4800	U
606-20-2	2,6-Dinitrotoluene	4800	U
99-09-2	3-Nitroaniline	12000	U
83-32-9	Acenaphthene	2200	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD06 SS6

b Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH925.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 32 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	12000	U
100-02-7	4-Nitrophenol	12000	U
132-64-9	Dibenzofuran	940	J
121-14-2	2,4-Dinitrotoluene	4800	U
84-66-2	Diethylphthalate	4800	U
7005-72-3	4-Chlorophenyl-phenylether	4800	U
86-73-7	Fluorene	1200	J
100-01-6	4-Nitroaniline	12000	U
534-52-1	4,6-Dinitro-2-methylphenol	12000	U
86-30-6	N-Nitrosodiphenylamine (1)	4800	U
101-55-3	4-Bromophenyl-phenylether	4800	U
118-74-1	Hexachlorobenzene	4800	U
87-86-5	Pentachlorophenol	12000	U
85-01-8	Phenanthrene	5900	
120-12-7	Anthracene	1300	J
86-74-8	Carbazole	950	J
84-74-2	Di-n-butylphthalate	4800	U
206-44-0	Fluoranthene	6400	
129-00-0	Pyrene	4800	J
85-68-7	Butylbenzylphthalate	1100	J
91-94-1	3,3'-Dichlorobenzidine	4800	U
56-55-3	Benzo(a)anthracene	2700	J
218-01-9	Chrysene	3000	J
117-81-7	bis(2-Ethylhexyl)phthalate	5400	B
117-84-0	Di-n-octylphthalate	4800	U
205-99-2	Benzo(b)fluoranthene	2500	J
207-08-9	Benzo(k)fluoranthene	2000	J
50-32-8	Benzo(a)pyrene	2400	J
193-39-5	Indeno(1,2,3-cd)pyrene	1900	J
53-70-3	Dibenz(a,h)anthracene	1000	J
191-24-2	Benzo(g,h,i)perylene	2300	J

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD06

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.06

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH925.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 32 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.3

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	141-79-7	3-Penten-2-one, 4-methyl-	2.958	1600	NJAB
2.	123-42-2	2-Pentanone, 4-hydroxy-4-met	3.373	2600	NJAB
3.	112-25-4	Ethanol, 2-(hexyloxy)-	6.101	1200	NJ
4.	203-64-5	4H-Cyclopenta[def]phenanthre	16.084	990	NJ
5.		Pyrene, -methyl-	19.003	2700	J
6.		UNKNOWN	19.202	1000	J
7.		UNKNOWN PAH	19.549	1000	J
8.		UNKNOWN PAH	19.697	1700	J
9.		UNKNOWN	20.139	1500	J
10.		UNKNOWN PAH	20.307	1200	J
11.		UNKNOWN	21.330	2100	J
12.		UNKNOWN	22.640	1100	J
13.		UNKNOWN	23.379	1600	J
14.		UNKNOWN	23.548	1000	J
15.		UNKNOWN	23.982	1400	J
16.		UNKNOWN	24.119	3000	J
17.	198-55-0	Perylene	24.299	2400	NJ
18.		UNKNOWN PAH	24.458	2500	J
19.		UNKNOWN PAH	24.701	1600	J
20.		UNKNOWN	24.775	1600	J
21.		UNKNOWN	25.201	3500	J
22.		UNKNOWN	25.730	1200	J
23.		UNKNOWN PAH	26.258	3600	J
24.		UNKNOWN PAH	26.924	2200	J
25.		UNKNOWN PAH	26.998	1500	J
26.		UNKNOWN PAH	27.474	1200	J
27.		UNKNOWN PAH	29.784	1200	J
28.					
29.					
30.					

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD07 SS7

b Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH926.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4400	U
111-44-4	bis(2-Chloroethyl)Ether	4400	U
95-57-8	2-Chlorophenol	4400	U
541-73-1	1,3-Dichlorobenzene	4400	U
106-46-7	1,4-Dichlorobenzene	4400	U
95-50-1	1,2-Dichlorobenzene	4400	U
95-48-7	2-Methylphenol	4400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4400	U
106-44-5	4-Methylphenol	4400	U
621-64-7	N-Nitroso-di-n-propylamine	4400	U
67-72-1	Hexachloroethane	4400	U
98-95-3	Nitrobenzene	4400	U
78-59-1	Isophorone	4400	U
88-75-5	2-Nitrophenol	4400	U
105-67-9	2,4-Dimethylphenol	4400	U
111-91-1	bis(2-Chloroethoxy)methane	4400	U
120-83-2	2,4-Dichlorophenol	4400	U
120-82-1	1,2,4-Trichlorobenzene	4400	U
91-20-3	Naphthalene	4400	U
106-47-8	4-Chloroaniline	4400	U
87-68-3	Hexachlorobutadiene	4400	U
59-50-7	4-Chloro-3-Methylphenol	4400	U
91-57-6	2-Methylnaphthalene	4400	U
77-47-4	Hexachlorocyclopentadiene	4400	U
88-06-2	2,4,6-Trichlorophenol	4400	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	4400	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethylphthalate	4400	U
208-96-8	Acenaphthylene	4400	U
606-20-2	2,6-Dinitrotoluene	4400	U
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	4400	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD07 SS7

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH926.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	4400	U
121-14-2	2,4-Dinitrotoluene	4400	U
84-66-2	Diethylphthalate	4400	U
7005-72-3	4-Chlorophenyl-phenylether	4400	U
86-73-7	Fluorene	4400	U
100-01-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	4400	U
101-55-3	4-Bromophenyl-phenylether	4400	U
118-74-1	Hexachlorobenzene	4400	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	1900	J
120-12-7	Anthracene	530	J
86-74-8	Carbazole	450	J
84-74-2	Di-n-butylphthalate	12000	B
206-44-0	Fluoranthene	7900	
129-00-0	Pyrene	8000	
85-68-7	Butylbenzylphthalate	2100	J
91-94-1	3,3'-Dichlorobenzidine	4400	U
56-55-3	Benzo(a)anthracene	3800	J
218-01-9	Chrysene	5100	
117-81-7	bis(2-Ethylhexyl)phthalate	48000	EB
117-84-0	Di-n-octylphthalate	1000	J
205-99-2	Benzo(b)fluoranthene	4800	
207-08-9	Benzo(k)fluoranthene	4300	J
50-32-8	Benzo(a)pyrene	3400	J
193-39-5	Indeno(1,2,3-cd)pyrene	4600	
53-70-3	Dibenz(a,h)anthracene	1600	J
191-24-2	Benzo(g,h,i)perylene	6200	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD07

Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH926.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.6

Number TICs found: 35

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	141-79-7	3-Penten-2-one, 4-methyl-	2.959	1000	NJAB
2.	123-42-2	2-Pentanone, 4-hydroxy-4-met	3.373	1100	NJAB
3.	84-65-1	9,10-Anthracenedione	16.641	1400	NJ
4.	5737-13-3	Cyclopenta(def)phenanthrenon	17.419	1500	NJ
5.	80-05-7	Phenol, 4,4'-(1-methylethyli	18.527	1000	NJ
6.		UNKNOWN PAH	19.003	3900	J
7.	55334-01-5	Phenanthrene, 9-dodecyltetra	19.713	1400	NJ
8.		UNKNOWN	20.149	2000	J
9.	82-05-3	7H-Benz[de]anthracen-7-one	20.319	3500	NJ
10.	78-51-3	Ethanol, 2-butoxy-, phosphat	20.435	2600	NJ
11.		UNKNOWN	20.595	1100	J
12.	82-05-3	7H-Benz[de]anthracen-7-one	20.829	1500	NJ
13.		UNKNOWN	21.339	2000	J
14.		UNKNOWN PHTHALATE	21.531	1600	J
15.		UNKNOWN	21.871	1300	J
16.		UNKNOWN	21.903	1500	J
17.		UNKNOWN	22.638	1600	J
18.		UNKNOWN PAH	23.576	2800	J
19.		UNKNOWN PAH	23.949	2900	J
20.		UNKNOWN	24.003	2500	J
21.		UNKNOWN	24.216	3800	J
22.	198-55-0	Perylene	24.323	7300	NJ
23.		UNKNOWN PAHTHALATE	24.472	8500	J
24.		UNKNOWN PAH	24.707	2200	J
25.		UNKNOWN	25.080	1100	J
26.		UNKNOWN PHTHALATE	25.793	1400	J
27.		UNKNOWN PAH	26.028	1400	J
28.		UNKNOWN PAH	26.187	1600	J
29.		UNKNOWN PAH	26.475	1700	J
30.		UNKNOWN	26.538	1700	J

u KM
u 8/07

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD07

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.07

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH926.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 8.6

Number TICs found: 35

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN PAH	26.932	2600	J
2.	UNKNOWN PAH	27.017	2300	J
3.	UNKNOWN PAH	27.474	1600	J
4.	UNKNOWN PAH	27.612	1200	J
5.	UNKNOWN PAH	29.574	1200	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD07DL

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.07DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH955.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 8.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	8900	U
111-44-4	bis(2-Chloroethyl)Ether	8900	U
95-57-8	2-Chlorophenol	8900	U
541-73-1	1,3-Dichlorobenzene	8900	U
106-46-7	1,4-Dichlorobenzene	8900	U
95-50-1	1,2-Dichlorobenzene	8900	U
95-48-7	2-Methylphenol	8900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	8900	U
106-44-5	4-Methylphenol	8900	U
621-64-7	N-Nitroso-di-n-propylamine	8900	U
67-72-1	Hexachloroethane	8900	U
98-95-3	Nitrobenzene	8900	U
78-59-1	Isophorone	8900	U
88-75-5	2-Nitrophenol	8900	U
105-67-9	2,4-Dimethylphenol	8900	U
111-91-1	bis(2-Chloroethoxy)methane	8900	U
120-83-2	2,4-Dichlorophenol	8900	U
120-82-1	1,2,4-Trichlorobenzene	8900	U
91-20-3	Naphthalene	8900	U
106-47-8	4-Chloroaniline	8900	U
87-68-3	Hexachlorobutadiene	8900	U
59-50-7	4-Chloro-3-Methylphenol	8900	U
91-57-6	2-Methylnaphthalene	8900	U
77-47-4	Hexachlorocyclopentadiene	8900	U
88-06-2	2,4,6-Trichlorophenol	8900	U
95-95-4	2,4,5-Trichlorophenol	22000	U
91-58-7	2-Chloronaphthalene	8900	U
88-74-4	2-Nitroaniline	22000	U
131-11-3	Dimethylphthalate	8900	U
208-96-8	Acenaphthylene	8900	U
606-20-2	2,6-Dinitrotoluene	8900	U
99-09-2	3-Nitroaniline	22000	U
83-32-9	Acenaphthene	8900	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD07DL

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.07DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH955.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 8.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	22000	U
100-02-7	4-Nitrophenol	22000	U
132-64-9	Dibenzofuran	8900	U
121-14-2	2,4-Dinitrotoluene	8900	U
84-66-2	Diethylphthalate	8900	U
7005-72-3	4-Chlorophenyl-phenylether	8900	U
86-73-7	Fluorene	8900	U
100-01-6	4-Nitroaniline	22000	U
534-52-1	4,6-Dinitro-2-methylphenol	22000	U
86-30-6	N-Nitrosodiphenylamine (1)	8900	U
101-55-3	4-Bromophenyl-phenylether	8900	U
118-74-1	Hexachlorobenzene	8900	U
87-86-5	Pentachlorophenol	22000	U
85-01-8	Phenanthrene	2100	JD
120-12-7	Anthracene	8900	U
86-74-8	Carbazole	8900	U
84-74-2	Di-n-butylphthalate	11000	BD
206-44-0	Fluoranthene	8200	JD
129-00-0	Pyrene	11000	D
85-68-7	Butylbenzylphthalate	2100	JD
91-94-1	3,3'-Dichlorobenzidine	8900	U
56-55-3	Benzo(a)anthracene	4000	JD
218-01-9	Chrysene	5300	JD
117-81-7	bis(2-Ethylhexyl)phthalate	35000	BD
117-84-0	Di-n-octylphthalate	890	JD
205-99-2	Benzo(b)fluoranthene	6800	JD
207-08-9	Benzo(k)fluoranthene	3900	JD
50-32-8	Benzo(a)pyrene	3400	JD
193-39-5	Indeno(1,2,3-cd)pyrene	4300	JD
53-70-3	Dibenz(a,h)anthracene	1200	JD
191-24-2	Benzo(g,h,i)perylene	5700	JD

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD07DL

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.07DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH955.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 8.6

Number TICs found: 22

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		1,1'-Biphenyl, -pentachloro-	17.857	2300	JD
2.		UNKNOWN PAH	18.803	5200	JD
3.		Anthracene, -dodecyltetradec	19.527	2300	JD
4.		UNKNOWN PAH	19.975	2400	JD
5.		1,1'-Biphenyl, -hexachloro	20.082	1900	JD
6.	82-05-3	7H-Benz[de]anthracen-7-one	20.146	2900	NJD
7.	78-51-3	Ethanol, 2-butoxy-, phosphat	20.274	3600	NJD
8.		UNKNOWN	21.171	2000	JD
9.		UNKNOWN	21.727	2200	JD
10.		UNKNOWN	22.390	2600	JD
11.		UNKNOWN	23.375	4000	JD
12.		UNKNOWN	23.814	4100	JD
13.		UNKNOWN	23.954	5600	JD
14.		UNKNOWN	24.286	14000	JD
15.		UNKNOWN PAH	24.575	7800	JD
16.		UNKNOWN	25.357	5600	JD
17.		UNKNOWN	25.550	3600	JD
18.		UNKNOWN PAH	26.739	6600	JD
19.		UNKNOWN	26.825	4100	JD
20.		-Dibenzpyrene	29.392	3800	JD
21.		UNKNOWN	29.638	4200	JD
22.		UNKNOWN	29.863	6500	JD
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD08 SS8

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH927.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4400	U
111-44-4	bis(2-Chloroethyl)Ether	4400	U
95-57-8	2-Chlorophenol	4400	U
541-73-1	1,3-Dichlorobenzene	4400	U
106-46-7	1,4-Dichlorobenzene	4400	U
95-50-1	1,2-Dichlorobenzene	4400	U
95-48-7	2-Methylphenol	4400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4400	U
106-44-5	4-Methylphenol	4400	U
621-64-7	N-Nitroso-di-n-propylamine	4400	U
67-72-1	Hexachloroethane	4400	U
98-95-3	Nitrobenzene	4400	U
78-59-1	Isophorone	4400	U
88-75-5	2-Nitrophenol	4400	U
105-67-9	2,4-Dimethylphenol	4400	U
111-91-1	bis(2-Chloroethoxy)methane	4400	U
120-83-2	2,4-Dichlorophenol	4400	U
120-82-1	1,2,4-Trichlorobenzene	4400	U
91-20-3	Naphthalene	4400	U
106-47-8	4-Chloroaniline	4400	U
87-68-3	Hexachlorobutadiene	4400	U
59-50-7	4-Chloro-3-Methylphenol	4400	U
91-57-6	2-Methylnaphthalene	4400	U
77-47-4	Hexachlorocyclopentadiene	4400	U
88-06-2	2,4,6-Trichlorophenol	4400	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	4400	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethylphthalate	4400	U
208-96-8	Acenaphthylene	4400	U
606-20-2	2,6-Dinitrotoluene	4400	U
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	560	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD08 SS8

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH927.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	420	J
121-14-2	2,4-Dinitrotoluene	4400	U
84-66-2	Diethylphthalate	4400	U
7005-72-3	4-Chlorophenyl-phenylether	4400	U
86-73-7	Fluorene	220	J
100-01-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	4400	U
101-55-3	4-Bromophenyl-phenylether	4400	U
118-74-1	Hexachlorobenzene	4400	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	9300	
120-12-7	Anthracene	2200	J
86-74-8	Carbazole	1300	J
84-74-2	Di-n-butylphthalate	4400 ~~1700~~	JB U KM 8/09/96
206-44-0	Fluoranthene	20000	
129-00-0	Pyrene	18000	
85-68-7	Butylbenzylphthalate	3200	J
91-94-1	3,3'-Dichlorobenzidine	4400	U
56-55-3	Benzo(a)anthracene	14000	
218-01-9	Chrysene	16000	
117-81-7	bis(2-Ethylhexyl)phthalate	13000	B
117-84-0	Di-n-octylphthalate	4400	U
205-99-2	Benzo(b)fluoranthene	19000	
207-08-9	Benzo(k)fluoranthene	16000	
50-32-8	Benzo(a)pyrene	16000	
193-39-5	Indeno(1,2,3-cd)pyrene	16000	
53-70-3	Dibenz(a,h)anthracene	7200	
191-24-2	Benzo(g,h,i)perylene	18000	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD08

Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH927.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6

Number TICs found: 35

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	112-25-4	Ethanol, 2-(hexyloxy)-	6.099	1700	NJ
2.	5737-13-3	Cyclopenta(def)phenanthrenon	17.425	2600	NJ
3.		11H-Benzo[]fluorene	18.998	11000	J
4.		UNKNOWN	20.142	6400	J
5.	82-05-3	7H-Benz[de]anthracen-7-one	20.322	9000	NJ
6.		UNKNOWN PAH	20.672	4700	J
7.	82-05-3	7H-Benz[de]anthracen-7-one	20.832	5000	NJ
8.		UNKNOWN	21.331	5600	J
9.		UNKNOWN PAH	22.330	6000	J
10.		UNKNOWN	22.639	4400	J
11.		UNKNOWN PAH	23.384	3700	J
12.		UNKNOWN PAH	23.576	3200	J
13.		UNKNOWN	23.842	6300	J
14.		Benzo[]fluoranthene	23.959	4800	J
15.		UNKNOWN	23.991	2900	J
16.		UNKNOWN	24.140	5600	J
17.		UNKNOWN PAH	24.183	6100	J
18.	192-97-2	Benzo[e]pyrene	24.332	16000	NJ
19.	198-55-0	Perylene	24.609	7000	NJ
20.		UNKNOWN PAH	24.716	6300	J
21.		UNKNOWN PAH	24.769	4400	J
22.		UNKNOWN	25.089	5200	J
23.		UNKNOWN PAH	25.217	8600	J
24.		UNKNOWN PAH	26.026	2600	J
25.		UNKNOWN PAH	26.175	4400	J
26.		UNKNOWN PAH	26.260	13000	J
27.		UNKNOWN	26.537	2900	J
28.		UNKNOWN PAH	26.931	6400	J
29.		UNKNOWN PAH	27.016	4000	J
30.		UNKNOWN PAH	27.484	2900	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD08

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.08

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH927.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6

Number TICs found: 35

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Naphtho[-def]chrysene	29.427	4500	J
2.		Naphtho[-def]chrysene	29.576	3200	J
3.	192-65-4	Naphtho[1,2,3,4-def]chrysene	29.651	2800	NJ
4.		UNKNOWN	29.789	4500	J
5.	191-07-1	Coronene	30.193	7000	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD08RE

b Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.08RA

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH956.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4400	U
111-44-4	bis(2-Chloroethyl)Ether	4400	U
95-57-8	2-Chlorophenol	4400	U
541-73-1	1,3-Dichlorobenzene	4400	U
106-46-7	1,4-Dichlorobenzene	4400	U
95-50-1	1,2-Dichlorobenzene	4400	U
95-48-7	2-Methylphenol	4400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4400	U
106-44-5	4-Methylphenol	4400	U
621-64-7	N-Nitroso-di-n-propylamine	4400	U
67-72-1	Hexachloroethane	4400	U
98-95-3	Nitrobenzene	4400	U
78-59-1	Isophorone	4400	U
88-75-5	2-Nitrophenol	4400	U
105-67-9	2,4-Dimethylphenol	4400	U
111-91-1	bis(2-Chloroethoxy)methane	4400	U
120-83-2	2,4-Dichlorophenol	4400	U
120-82-1	1,2,4-Trichlorobenzene	4400	U
91-20-3	Naphthalene	4400	U
106-47-8	4-Chloroaniline	4400	U
87-68-3	Hexachlorobutadiene	4400	U
59-50-7	4-Chloro-3-Methylphenol	4400	U
91-57-6	2-Methylnaphthalene	4400	U
77-47-4	Hexachlorocyclopentadiene	4400	U
88-06-2	2,4,6-Trichlorophenol	4400	U
95-95-4	2,4,5-Trichlorophenol	11000	U
91-58-7	2-Chloronaphthalene	4400	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethylphthalate	4400	U
208-96-8	Acenaphthylene	4400	U
606-20-2	2,6-Dinitrotoluene	4400	U
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	600	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD08RE

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.08RA

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH956.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	410	J
121-14-2	2,4-Dinitrotoluene	4400	U
84-66-2	Diethylphthalate	4400	U
7005-72-3	4-Chlorophenyl-phenylether	4400	U
86-73-7	Fluorene	4400	U
100-01-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	4400	U
101-55-3	4-Bromophenyl-phenylether	4400	U
118-74-1	Hexachlorobenzene	4400	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	9300	
120-12-7	Anthracene	1800	J
86-74-8	Carbazole	1300	J
84-74-2	Di-n-butylphthalate	4100 ~~1600~~	JB KH 8/09/96
206-44-0	Fluoranthene	17000	
129-00-0	Pyrene	27000	
85-68-7	Butylbenzylphthalate	3600	J
91-94-1	3,3'-Dichlorobenzidine	4400	U
56-55-3	Benzo(a)anthracene	13000	
218-01-9	Chrysene	16000	
117-81-7	bis(2-Ethylhexyl)phthalate	12000	B
117-84-0	Di-n-octylphthalate	4400	U
205-99-2	Benzo(b)fluoranthene	22000	
207-08-9	Benzo(k)fluoranthene	18000	
50-32-8	Benzo(a)pyrene	16000	
193-39-5	Indeno(1,2,3-cd)pyrene	14000	
53-70-3	Dibenz(a,h)anthracene	5800	
191-24-2	Benzo(g,h,i)perylene	16000	

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD08RE

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.08RA

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH956.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6

Number TICs found: 35

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-Pentanone, 4-hydroxy-4-met	3.228	1800	NJA
2.	486-25-9	9H-Fluoren-9-one	13.903	1500	NJ
3.		Anthracene, -methyl-	15.624	1600	J
4.		Anthracene, -methyl-	15.687	1000	J
5.		UNKNOWN PAH	15.896	1200	J
6.	35465-71-5	2-Phenylnaphthalene	16.399	1300	NJ
7.	84-65-1	9,10-Anthracenedione	16.463	1200	NJ
8.	5737-13-3	Cyclopenta(def)phenanthrenon	17.240	1300	NJ
9.	243-42-5	Benzo[b]naphtho[2,3-d]furan	18.273	1700	NJ
10.		11H-Benzo[]fluorene	18.812	3600	J
11.		UNKNOWN	19.816	6100	J
12.		UNKNOWN PAH	19.965	7200	J
13.	82-05-3	7H-Benz[de]anthracen-7-one	20.134	18000	NJ
14.		UNKNOWN	20.272	9600	J
15.		UNKNOWN PAH	20.484	14000	J
16.		UNKNOWN PAH	20.568	8400	J
17.	82-05-3	7H-Benz[de]anthracen-7-one	20.664	9900	NJ
18.		UNKNOWN	21.162	7300	J
19.		Unknown	21.310	6700	J
20.		UNKNOWN PAH	21.543	7100	J
21.		UNKNOWN	21.713	7800	J
22.		UNKNOWN PAH	22.126	6600	J
23.		UNKNOWN PAH	23.208	12000	J
24.		UNKNOWN	23.643	12000	J
25.	205-82-3	Benzo[j]fluoranthene	23.791	13000	NJ
26.		UNKNOWN PAH	24.004	6100	J
27.	198-55-0	Perylene	24.152	23000	NJ
28.	192-97-2	Benzo[e]pyrene	24.428	6200	NJ
29.		UNKNOWN	25.013	14000	J
30.		UNKNOWN	26.066	15000	J

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD08RE

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.08RA

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH956.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 26 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.6

Number TICs found: 35

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN PAH	26.726	19000	J
2.	UNKNOWN PAH	26.801	7400	J
3.	UNKNOWN PAH	27.270	6300	J
4.	[ ]Dibenzpyrene	29.390	6200	J
5.	UNKNOWN	29.656	15000	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD09 SS9

b Name: SWL-TULSA Contract: 68-D5-0021

ab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH963.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 29 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	460	U
111-44-4	bis(2-Chloroethyl)Ether	460	U
95-57-8	2-Chlorophenol	460	U
541-73-1	1,3-Dichlorobenzene	460	U
106-46-7	1,4-Dichlorobenzene	25	J
95-50-1	1,2-Dichlorobenzene	460	U
95-48-7	2-Methylphenol	460	U
108-60-1	2,2'-oxybis(1-Chloropropane)	460	U
106-44-5	4-Methylphenol	460	U
621-64-7	N-Nitroso-di-n-propylamine	460	U
67-72-1	Hexachloroethane	460	U
98-95-3	Nitrobenzene	460	U
78-59-1	Isophorone	460	U
88-75-5	2-Nitrophenol	460	U
105-67-9	2,4-Dimethylphenol	460	U
111-91-1	bis(2-Chloroethoxy)methane	460	U
120-83-2	2,4-Dichlorophenol	460	U
120-82-1	1,2,4-Trichlorobenzene	460	U
91-20-3	Naphthalene	79	J
106-47-8	4-Chloroaniline	460	U
87-68-3	Hexachlorobutadiene	460	U
59-50-7	4-Chloro-3-Methylphenol	460	U
91-57-6	2-Methylnaphthalene	38	J
77-47-4	Hexachlorocyclopentadiene	460	U
88-06-2	2,4,6-Trichlorophenol	460	U
95-95-4	2,4,5-Trichlorophenol	1200	U
91-58-7	2-Chloronaphthalene	460	U
88-74-4	2-Nitroaniline	1200	U
131-11-3	Dimethylphthalate	75	J
208-96-8	Acenaphthylene	460	U
606-20-2	2,6-Dinitrotoluene	460	U
99-09-2	3-Nitroaniline	1200	U
83-32-9	Acenaphthene	55	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD09 SS9

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH963.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 29 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1200	U
100-02-7	4-Nitrophenol	1200	U
132-64-9	Dibenzofuran	90	J
121-14-2	2,4-Dinitrotoluene	460	U
84-66-2	Diethylphthalate	~~460~~ 74	JB
7005-72-3	4-Chlorophenyl-phenylether	460	U
86-73-7	Fluorene	54	J
100-01-6	4-Nitroaniline	1200	U
534-52-1	4,6-Dinitro-2-methylphenol	1200	U
86-30-6	N-Nitrosodiphenylamine (1)	460	U
101-55-3	4-Bromophenyl-phenylether	460	U
118-74-1	Hexachlorobenzene	460	U
87-86-5	Pentachlorophenol	1200	U
85-01-8	Phenanthrene	1300	
120-12-7	Anthracene	210	J
86-74-8	Carbazole	100	J
84-74-2	Di-n-butylphthalate	1500	
206-44-0	Fluoranthene	1600	
129-00-0	Pyrene	3300	
85-68-7	Butylbenzylphthalate	460	J
91-94-1	3,3'-Dichlorobenzidine	460	U
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1500	
117-81-7	bis(2-Ethylhexyl)phthalate	4100	EB
117-84-0	Di-n-octylphthalate	110	J
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	1400	
50-32-8	Benzo(a)pyrene	1100	
193-39-5	Indeno(1,2,3-cd)pyrene	1100	
53-70-3	Dibenz(a,h)anthracene	470	
191-24-2	Benzo(g,h,i)perylene	1200	

KH 8/09/96

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD09

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.09

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH963.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 29 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKENE	2.929	630	J
2.		UNKNOWN	3.189	360	J
3.	123-42-2	2-Pentanone, 4-hydroxy-4-met	3.324	500	NJAB
4.		UNKNOWN	3.439	160	J
5.		UNKNOWN	4.116	270	J
6.		UNKNOWN ORGANIC ACID	6.793	480	J
7.		UNKNOWN ORGANIC ACID	7.997	480	J
8.		UNKNOWN ORGANIC ACID	11.635	210	J
9.		UNKNOWN ORGANIC ACID	12.045	250	JB
10.		UNKNOWN ORGANIC ACID	13.943	270	J
11.	112-39-0	Hexadecanoic acid, methyl es	15.659	290	NJ
12.		UNKNOWN PAH	15.924	190	J
13.		1,1'-Biphenyl, -Pentachloro-	17.892	370	J
14.		UNKNOWN ORGANIC ACID	18.116	690	J
15.		1,1'-Biphenyl, -pentachloro-	18.639	230	J
16.		11H-Benzo[]fluorene	18.841	220	J
17.		UNKNOWN AMIDE	19.942	2100	JB
18.	78-51-3	Ethanol, 2-butoxy-, phosphat	20.316	1900	NJ
19.		UNKNOWN AMIDE	23.242	1300	JB
20.		UNKNOWN	24.607	2000	J
21.		UNKNOWN	26.102	3700	J
22.		UNKNOWN PAH	26.759	1600	J
23.		UNKNOWN PAH	26.834	1400	J
24.					
25.					
26.					
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD09DL

Lab Name: SWL-TULSA Contract: 68-D5-0021

ab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.09DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH973.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 29 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/10/96

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	930	U
111-44-4	bis(2-Chloroethyl)Ether	930	U
95-57-8	2-Chlorophenol	930	U
541-73-1	1,3-Dichlorobenzene	930	U
106-46-7	1,4-Dichlorobenzene	930	U
95-50-1	1,2-Dichlorobenzene	930	U
95-48-7	2-Methylphenol	930	U
108-60-1	2,2'-oxybis(1-Chloropropane)	930	U
106-44-5	4-Methylphenol	930	U
621-64-7	N-Nitroso-di-n-propylamine	930	U
67-72-1	Hexachloroethane	930	U
98-95-3	Nitrobenzene	930	U
78-59-1	Isophorone	930	U
88-75-5	2-Nitrophenol	930	U
105-67-9	2,4-Dimethylphenol	930	U
111-91-1	bis(2-Chloroethoxy)methane	930	U
120-83-2	2,4-Dichlorophenol	930	U
120-82-1	1,2,4-Trichlorobenzene	930	U
91-20-3	Naphthalene	75	JD
106-47-8	4-Chloroaniline	930	U
87-68-3	Hexachlorobutadiene	930	U
59-50-7	4-Chloro-3-Methylphenol	930	U
91-57-6	2-Methylnaphthalene	930	U
77-47-4	Hexachlorocyclopentadiene	930	U
88-06-2	2,4,6-Trichlorophenol	930	U
95-95-4	2,4,5-Trichlorophenol	2300	U
91-58-7	2-Chloronaphthalene	930	U
88-74-4	2-Nitroaniline	2300	U
131-11-3	Dimethylphthalate	930	U
208-96-8	Acenaphthylene	930	U
606-20-2	2,6-Dinitrotoluene	930	U
99-09-2	3-Nitroaniline	2300	U
83-32-9	Acenaphthene	54	JD

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD09DL

Name: SWL-TULSA Contract: 68-D5-0021

ab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.09DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH973.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 29 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/10/96

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2300	U
100-02-7	4-Nitrophenol	2300	U
132-64-9	Dibenzofuran	80	JD
121-14-2	2,4-Dinitrotoluene	930	U
84-66-2	Diethylphthalate	930 ~~76~~	JBD
7005-72-3	4-Chlorophenyl-phenylether	930	U
86-73-7	Fluorene	52	JD
100-01-6	4-Nitroaniline	2300	U
534-52-1	4,6-Dinitro-2-methylphenol	2300	U
86-30-6	N-Nitrosodiphenylamine (1)	930	U
101-55-3	4-Bromophenyl-phenylether	930	U
118-74-1	Hexachlorobenzene	930	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	1200	D
120-12-7	Anthracene	180	JD
86-74-8	Carbazole	93	JD
84-74-2	Di-n-butylphthalate	1800	D
206-44-0	Fluoranthene	2200	D
129-00-0	Pyrene	2300	D
85-68-7	Butylbenzylphthalate	370	JD
91-94-1	3,3'-Dichlorobenzidine	930	U
56-55-3	Benzo(a)anthracene	1100	D
218-01-9	Chrysene	1400	D
117-81-7	bis(2-Ethylhexyl)phthalate	3300	BD
117-84-0	Di-n-octylphthalate	930	U
205-99-2	Benzo(b)fluoranthene	1500	D
207-08-9	Benzo(k)fluoranthene	1100	D
50-32-8	Benzo(a)pyrene	1000	D
193-39-5	Indeno(1,2,3-cd)pyrene	870	JD
53-70-3	Dibenz(a,h)anthracene	410	JD
191-24-2	Benzo(g,h,i)perylene	1000	D

U KM 8/09/96

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD09DL

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.09DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH973.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 29 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/10/96

Injection Volume: 2.0(uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 25

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKENE	3.116	1600	JD
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.241	970	NJAD
3.	UNKNOWN	4.052	490	JD
4.	UNKNOWN ORGANIC ACID	6.660	370	JD
5.	UNKNOWN ORGANIC ACID	7.839	610	JD
6.	UNKNOWN ORGANIC ACID	11.920	270	JD
7.	UNKNOWN ORGANIC ACID	13.777	340	JD
8.	Anthracene, -methyl-	15.550	290	JD
9.	Phenanthrene, -methyl-	15.761	300	JD
10.	UNKNOWN ORGANIC ACID	15.878	530	JD
11.	UNKNOWN ORGANIC ACID	15.984	3300	JD
12.	UNKNOWN	17.407	390	JD
13.	1,1'-Biphenyl, -pentachloro-	17.726	880	JD
14.	UNKNOWN ORGANIC ACID	17.907	1500	JD
15.	1,1'-Biphenyl, -Pentachloro-	18.461	570	JD
16.	Pyrene, -methyl-	18.685	880	JD
17. 789-02-6	o,p'-DDT	19.838	560	NJD
18.	1,1'-Biphenyl, -hexachloro-	19.934	560	JD
19. 78-51-3	Ethanol, 2-butoxy-, phosphat	20.137	810	NJD
20.	UNKNOWN PAH	21.559	470	JD
21.	UNKNOWN	22.287	620	JD
22.	UNKNOWN AMIDE	23.048	2400	JD
23.	UNKNOWN	23.638	1900	JD
24.	UNKNOWN PAH	24.839	2400	JD
25.	UNKNOWN	26.541	1600	JD
26.				
27.				
28.				
29.				
30.				

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD10 SS10

b Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH964.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 24 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	2200	U
111-44-4	bis(2-Chloroethyl)Ether	2200	U
95-57-8	2-Chlorophenol	2200	U
541-73-1	1,3-Dichlorobenzene	2200	U
106-46-7	1,4-Dichlorobenzene	2200	U
95-50-1	1,2-Dichlorobenzene	2200	U
95-48-7	2-Methylphenol	2200	U
108-60-1	2,2'-oxybis(1-Chloropropane)	2200	U
106-44-5	4-Methylphenol	2200	U
621-64-7	N-Nitroso-di-n-propylamine	2200	U
67-72-1	Hexachloroethane	2200	U
98-95-3	Nitrobenzene	2200	U
78-59-1	Isophorone	2200	U
88-75-5	2-Nitrophenol	2200	U
105-67-9	2,4-Dimethylphenol	2200	U
111-91-1	bis(2-Chloroethoxy)methane	2200	U
120-83-2	2,4-Dichlorophenol	2200	U
120-82-1	1,2,4-Trichlorobenzene	2200	U
91-20-3	Naphthalene	2200	U
106-47-8	4-Chloroaniline	2200	U
87-68-3	Hexachlorobutadiene	2200	U
59-50-7	4-Chloro-3-Methylphenol	2200	U
91-57-6	2-Methylnaphthalene	2200	U
77-47-4	Hexachlorocyclopentadiene	2200	U
88-06-2	2,4,6-Trichlorophenol	2200	U
95-95-4	2,4,5-Trichlorophenol	5500	U
91-58-7	2-Chloronaphthalene	2200	U
88-74-4	2-Nitroaniline	5500	U
131-11-3	Dimethylphthalate	2200	U
208-96-8	Acenaphthylene	2200	U
606-20-2	2,6-Dinitrotoluene	2200	U
99-09-2	3-Nitroaniline	5500	U
83-32-9	Acenaphthene	160	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD10 SS10

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH964.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 24 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	5500	U
100-02-7	4-Nitrophenol	5500	U
132-64-9	Dibenzofuran	150	J
121-14-2	2,4-Dinitrotoluene	2200	U
84-66-2	Diethylphthalate	2200	U
7005-72-3	4-Chlorophenyl-phenylether	2200	U
86-73-7	Fluorene	160	J
100-01-6	4-Nitroaniline	5500	U
534-52-1	4,6-Dinitro-2-methylphenol	5500	U
86-30-6	N-Nitrosodiphenylamine (1)	2200	U
101-55-3	4-Bromophenyl-phenylether	2200	U
118-74-1	Hexachlorobenzene	2200	U
87-86-5	Pentachlorophenol	5500	U
85-01-8	Phenanthrene	3600	
120-12-7	Anthracene	770	J
86-74-8	Carbazole	240	J
84-74-2	Di-n-butylphthalate	7000	
206-44-0	Fluoranthene	5700	
129-00-0	Pyrene	6800	
85-68-7	Butylbenzylphthalate	460	J
91-94-1	3,3'-Dichlorobenzidine	2200	U
56-55-3	Benzo(a)anthracene	3000	
218-01-9	Chrysene	3400	
117-81-7	bis(2-Ethylhexyl)phthalate	3100	B
117-84-0	Di-n-octylphthalate	2200	U
205-99-2	Benzo(b)fluoranthene	3100	
207-08-9	Benzo(k)fluoranthene	2600	
50-32-8	Benzo(a)pyrene	2700	
193-39-5	Indeno(1,2,3-cd)pyrene	1800	J
53-70-3	Dibenz(a,h)anthracene	880	J
191-24-2	Benzo(g,h,i)perylene	2100	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD10

Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.10

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH964.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 24 decanted: (Y/N) N Date Extracted: 07/01/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 7.8

Number TICs found: 23

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	141-79-7	3-Penten-2-one, 4-methyl-	2.919	730	NJAB
2.	123-42-2	2-Pentanone, 4-hydroxy-4-met	3.304	590	NJAB
3.		UNKNOWN ORGANIC ACID	7.909	520	J
4.	486-25-9	9H-Fluoren-9-one	13.910	460	NJ
5.		Anthracene, -methyl-	15.636	720	J
6.		Anthracene, -methyl-	15.699	450	J
7.		UNKNOWN PAH	15.910	580	J
8.		UNKNOWN ORGANIC ACID	16.122	7200	J
9.		UNKNOWN	17.870	510	J
10.		UNKNOWN ORGANIC ACID	18.040	2500	J
11.		Benzo[b]naphtho[]furan	18.295	480	J
12.		1,1'-Biphenyl, -Pentachloro-	18.613	680	J
13.		11H-Benzo[]fluorene	18.826	1300	J
14.		Pyrene, -methyl-	19.092	670	J
15.		UNKNOWN ORGANIC ACID	19.486	510	J
16.	82-05-3	7H-Benz[de]anthracen-7-one	20.169	480	NJ
17.	78-51-3	Ethanol, 2-butoxy-, phosphat	20.275	1100	NJ
18.		UNKNOWN PAH	20.499	490	J
19.		UNKNOWN AMIDE	23.198	2400	JB
20.	192-97-2	Benzo[e]pyrene	23.796	1300	NJ
21.		UNKNOWN	23.934	1200	J
22.		UNKNOWN PAH	24.575	1300	J
23.		UNKNOWN PAH	26.719	1200	J
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD11 SS11

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH928.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3900	U
111-44-4	bis(2-Chloroethyl)Ether	3900	U
95-57-8	2-Chlorophenol	3900	U
541-73-1	1,3-Dichlorobenzene	3900	U
106-46-7	1,4-Dichlorobenzene	3900	U
95-50-1	1,2-Dichlorobenzene	3900	U
95-48-7	2-Methylphenol	3900	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3900	U
106-44-5	4-Methylphenol	3900	U
621-64-7	N-Nitroso-di-n-propylamine	3900	U
67-72-1	Hexachloroethane	3900	U
98-95-3	Nitrobenzene	3900	U
78-59-1	Isophorone	3900	U
88-75-5	2-Nitrophenol	3900	U
105-67-9	2,4-Dimethylphenol	3900	U
111-91-1	bis(2-Chloroethoxy)methane	3900	U
120-83-2	2,4-Dichlorophenol	3900	U
120-82-1	1,2,4-Trichlorobenzene	3900	U
91-20-3	Naphthalene	3900	U
106-47-8	4-Chloroaniline	3900	U
87-68-3	Hexachlorobutadiene	3900	U
59-50-7	4-Chloro-3-Methylphenol	3900	U
91-57-6	2-Methylnaphthalene	210	J
77-47-4	Hexachlorocyclopentadiene	3900	U
88-06-2	2,4,6-Trichlorophenol	3900	U
95-95-4	2,4,5-Trichlorophenol	9900	U
91-58-7	2-Chloronaphthalene	3900	U
88-74-4	2-Nitroaniline	9900	U
131-11-3	Dimethylphthalate	3900	U
208-96-8	Acenaphthylene	3900	U
606-20-2	2,6-Dinitrotoluene	3900	U
99-09-2	3-Nitroaniline	9900	U
83-32-9	Acenaphthene	1200	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD11 SS11

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH928.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	9900	U
100-02-7	4-Nitrophenol	9900	U
132-64-9	Dibenzofuran	1200	J
121-14-2	2,4-Dinitrotoluene	3900	U
84-66-2	Diethylphthalate	3900	U
7005-72-3	4-Chlorophenyl-phenylether	3900	U
86-73-7	Fluorene	1300	J
100-01-6	4-Nitroaniline	9900	U
534-52-1	4,6-Dinitro-2-methylphenol	9900	U
86-30-6	N-Nitrosodiphenylamine (1)	3900	U
101-55-3	4-Bromophenyl-phenylether	3900	U
118-74-1	Hexachlorobenzene	3900	U
87-86-5	Pentachlorophenol	9900	U
85-01-8	Phenanthrene	33000	E
120-12-7	Anthracene	7500	
86-74-8	Carbazole	2100	J
84-74-2	Di-n-butylphthalate	3900 ~~2200~~	JB
206-44-0	Fluoranthene	41000	E
129-00-0	Pyrene	34000	E
85-68-7	Butylbenzylphthalate	3900	U
91-94-1	3,3'-Dichlorobenzidine	3900	U
56-55-3	Benzo(a)anthracene	19000	
218-01-9	Chrysene	19000	
117-81-7	bis(2-Ethylhexyl)phthalate	3900	U
117-84-0	Di-n-octylphthalate	3900	U
205-99-2	Benzo(b)fluoranthene	12000	
207-08-9	Benzo(k)fluoranthene	12000	
50-32-8	Benzo(a)pyrene	13000	
193-39-5	Indeno(1,2,3-cd)pyrene	8900	
53-70-3	Dibenz(a,h)anthracene	4000	
191-24-2	Benzo(g,h,i)perylene	9200	

u KM 8/09/96

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD11

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH928.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 35

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 486-25-9	9H-Fluoren-9-one	14.096	3300	NJ
2. 132-65-0	Dibenzothiophene	14.273	1500	NJ
3. 5394-86-5	1H-Indene, 1-(phenylmethylen	15.395	1500	NJ
4.	Phenanthrene, -methyl-	15.821	4000	J
5.	1H-Indene, -phenyl-	15.883	4300	J
6.	Anthracene, -methyl-	15.977	1600	J
7.	UNKNOWN PAH	16.091	4800	J
8.	Anthracene, -methyl-	16.154	2700	J
9. 35465-71-5	2-Phenylnaphthalene	16.601	2900	NJ
10. 84-65-1	9,10-Anthracenedione	16.643	3000	NJ
11.	Phenanthrene, -dimethyl-	17.256	1400	J
12.	Phenanthrene, -dimethyl-	17.319	1300	J
13. 5737-13-3	Cyclopenta(def)phenanthrenon	17.423	3000	NJ
14. 243-42-5	Benzo[b]naphtho[2,3-d]furan	18.455	1700	NJ
15.	11H-Benzo[]fluorene	18.736	2700	J
16.	11H-Benzo[]fluorene	18.997	3800	J
17.	Pyrene, -methyl-	19.257	2800	J
18.	UNKNOWN AMIDE	20.039	4400	JB
19. 82-05-3	7H-Benz[de]anthracen-7-one	20.311	6600	NJ
20. 239-35-0	Benzo[b]naphtho[2,1-d]thioph	20.561	3200	NJ
21.	UNKNOWN PAH	20.666	6200	J
22. 82-05-3	7H-Benz[de]anthracen-7-one	20.823	5300	NJ
23.	UNKNOWN PAH	21.702	4500	J
24.	Triphenylene, -methyl-	22.204	4700	J
25.	-Methylchrysene	22.298	2600	J
26.	UNKNOWN PAH	22.444	2600	J
27. 1090-13-7	5,12-Naphthacenedione	22.988	2400	NJ
28.	UNKNOWN PAH	23.365	2400	J
29. 205-99-2	Benz[e]acephenanthrylene	23.952	3100	NJ
30. 192-97-2	Benzo[e]pyrene	24.319	10000	NJ

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD11

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.11

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH928.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/08/96

Injection Volume: 2.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 35

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 198-55-0	Perylene	24.592	4300	NJ
2.	UNKNOWN PAH	26.292	2600	J
3.	UNKNOWN PAH	26.471	3800	J
4.	-Dibenzpyrene	29.405	3700	J
5. 191-07-1	Coronene	30.185	4800	NJ
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD11DL

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.11DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH957.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	7800	U
111-44-4	bis(2-Chloroethyl)Ether	7800	U
95-57-8	2-Chlorophenol	7800	U
541-73-1	1,3-Dichlorobenzene	7800	U
106-46-7	1,4-Dichlorobenzene	7800	U
95-50-1	1,2-Dichlorobenzene	7800	U
95-48-7	2-Methylphenol	7800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	7800	U
106-44-5	4-Methylphenol	7800	U
621-64-7	N-Nitroso-di-n-propylamine	7800	U
67-72-1	Hexachloroethane	7800	U
98-95-3	Nitrobenzene	7800	U
78-59-1	Isophorone	7800	U
88-75-5	2-Nitrophenol	7800	U
105-67-9	2,4-Dimethylphenol	7800	U
111-91-1	bis(2-Chloroethoxy)methane	7800	U
120-83-2	2,4-Dichlorophenol	7800	U
120-82-1	1,2,4-Trichlorobenzene	7800	U
91-20-3	Naphthalene	7800	U
106-47-8	4-Chloroaniline	7800	U
87-68-3	Hexachlorobutadiene	7800	U
59-50-7	4-Chloro-3-Methylphenol	7800	U
91-57-6	2-Methylnaphthalene	480	JD
77-47-4	Hexachlorocyclopentadiene	7800	U
88-06-2	2,4,6-Trichlorophenol	7800	U
95-95-4	2,4,5-Trichlorophenol	20000	U
91-58-7	2-Chloronaphthalene	7800	U
88-74-4	2-Nitroaniline	20000	U
131-11-3	Dimethylphthalate	7800	U
208-96-8	Acenaphthylene	7800	U
606-20-2	2,6-Dinitrotoluene	7800	U
99-09-2	3-Nitroaniline	20000	U
83-32-9	Acenaphthene	1600	JD

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD11DL

Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.11DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH957.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.9

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	20000	U
100-02-7	4-Nitrophenol	20000	U
132-64-9	Dibenzofuran	1500	JD
121-14-2	2,4-Dinitrotoluene	7800	U
84-66-2	Diethylphthalate	7800	U
7005-72-3	4-Chlorophenyl-phenylether	7800	U
86-73-7	Fluorene	1600	JD
100-01-6	4-Nitroaniline	20000	U
534-52-1	4,6-Dinitro-2-methylphenol	20000	U
86-30-6	N-Nitrosodiphenylamine (1)	7800	U
101-55-3	4-Bromophenyl-phenylether	7800	U
118-74-1	Hexachlorobenzene	7800	U
87-86-5	Pentachlorophenol	20000	U
85-01-8	Phenanthrene	35000	D
120-12-7	Anthracene	8200	D
86-74-8	Carbazole	2700	JD
84-74-2	Di-n-butylphthalate	7800 ~~2400~~	JBD u KM 8/09/96
206-44-0	Fluoranthene	40000	D
129-00-0	Pyrene	43000	D
85-68-7	Butylbenzylphthalate	7800	U
91-94-1	3,3'-Dichlorobenzidine	7800	U
56-55-3	Benzo(a)anthracene	20000	D
218-01-9	Chrysene	20000	D
117-81-7	bis(2-Ethylhexyl)phthalate	7800	U
117-84-0	Di-n-octylphthalate	7800	U
205-99-2	Benzo(b)fluoranthene	15000	D
207-08-9	Benzo(k)fluoranthene	15000	D
50-32-8	Benzo(a)pyrene	15000	D
193-39-5	Indeno(1,2,3-cd)pyrene	8900	D
53-70-3	Dibenz(a,h)anthracene	3700	JD
191-24-2	Benzo(g,h,i)perylene	9200	D

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD11DL

Lab Name: SWL-TULSA Contract: 68-D5-0021

Lab Code: SWOK Case No.: 24752 SAS No.: SDG No.: EZD01

Matrix: (soil/water) SOIL Lab Sample ID: 25973.11DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH957.D

Level: (low/med) LOW Date Received: 06/12/96

% Moisture: 16 decanted: (Y/N) N Date Extracted: 06/20/96

Concentrated Extract Volume: 500(uL) Date Analyzed: 07/09/96

Injection Volume: 2.0(uL) Dilution Factor: 20.0

GPC Cleanup: (Y/N) Y pH: 7.9

Number TICs found: 27

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 486-25-9	9H-Fluoren-9-one	13.909	2900	NJD
2.	Anthracene, -methyl-	15.628	3600	JD
3.	Anthracene, -methyl-	15.691	3200	JD
4.	UNKNOWN PAH	15.899	3700	JD
5.	Anthracene, -methyl-	15.962	1700	JD
6.	Naphthalene, -phenyl-	16.400	2200	JD
7. 84-65-1	9,10-Anthracenedione	16.474	2200	NJD
8. 5737-13-3	Cyclopenta(def)phenanthrenon	17.256	2200	NJD
9.	UNKNOWN PAH	17.758	2500	JD
10. 83-12-5	Phenindione	17.831	2400	NJD
11. 243-42-5	Benzo[b]naphtho[2,3-d]furan	18.271	3100	NJD
12.	Pyrene, -methyl-	18.553	4900	JD
13.	11H-Benzo[]fluorene	18.815	6800	JD
14.	Pyrene, -methyl-	19.076	3300	JD
15.	UNKNOWN AMIDE	19.860	3600	JD
16. 82-05-3	7H-Benz[de]anthracen-7-one	20.143	6000	NJD
17. 239-35-0	Benzo[b]naphtho[2,1-d]thioph	20.373	2500	NJD
18.	UNKNOWN PAH	20.478	5300	JD
19. 82-05-3	7H-Benz[de]anthracen-7-one	20.667	4000	NJD
20.	UNKNOWN PAH	21.539	3500	JD
21.	UNKNOWN PAH	21.664	2000	JD
22.	Triphenylene, -methyl-	22.032	3600	JD
23.	UNKNOWN PAH	23.198	3400	JD
24. 205-82-3	Benzo[j]fluoranthene	23.788	3200	NJD
25.	UNKNOWN PAH	24.146	13000	JD
26. 198-55-0	Perylene	24.432	4500	NJD
27. 0-00-0	1,2:4,5-Dibenzpyrene	29.242	4500	NJD
28.				
29.				
30.				