1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD16

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: 25973.16

Sample wt/vol: 5.0 (g/mL) G Lab File ID: L21046.D

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

% Moisture: not dec. 36 Date Analyzed: 06/14/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD16RE SS16

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: 25973.16RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C20664.D

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

% Moisture: not dec. 36 Date Analyzed: 06/21/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	70	
67-64-1	Acetone	16	U
75-15-0	Carbon Disulfide	16	U
75-35-4	1,1-Dichloroethene	16	U
75-34-3	1,1-Dichloroethane	16	U
540-59-0	1,2-Dichloroethene (total)	16	U
67-66-3	Chloroform	16	U
107-06-2	1,2-Dichloroethane	16	U
78-93-3	2-Butanone	16	U
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon Tetrachloride	16	U
75-27-4	Bromodichloromethane	16	U
78-87-5	1,2-Dichloropropane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
79-01-6	Trichloroethene	16	U
124-48-1	Dibromochloromethane	16	U
79-00-5	1,1,2-Trichloroethane	16	U
71-43-2	Benzene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
75-25-2	Bromoform	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
108-88-3	Toluene	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
100-42-5	Styrene	16	U
1330-20-7	Xylene (Total)	16	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD16RE

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: 25973.16RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C20664.D

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

% Moisture: not dec. 36 Date Analyzed: 06/21/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD17 SS17

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: 25973.17

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C20665.D

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

% Moisture: not dec. 37 Date Analyzed: 06/21/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	87	
67-64-1	Acetone	16	U
75-15-0	Carbon Disulfide	16	U
75-35-4	1,1-Dichloroethene	16	U
75-34-3	1,1-Dichloroethane	16	U
540-59-0	1,2-Dichloroethene (total)	16	U
67-66-3	Chloroform	16	U
107-06-2	1,2-Dichloroethane	16	U
78-93-3	2-Butanone	16	U
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon Tetrachloride	16	U
75-27-4	Bromodichloromethane	16	U
78-87-5	1,2-Dichloropropane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
79-01-6	Trichloroethene	16	U
124-48-1	Dibromochloromethane	16	U
79-00-5	1,1,2-Trichloroethane	16	U
71-43-2	Benzene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
75-25-2	Bromoform	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
108-88-3	Toluene	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
100-42-5	Styrene	16	U
1330-20-7	Xylene (Total)	16	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD17

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: 25973.17

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C20665.D

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

% Moisture: not dec. 37 Date Analyzed: 06/21/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD17RE SS17

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: 25973.17RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C20668.D

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

% Moisture: not dec. 37 Date Analyzed: 06/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	U
74-83-9	Bromomethane	16	U
75-01-4	Vinyl Chloride	16	U
75-00-3	Chloroethane	16	U
75-09-2	Methylene Chloride	44	
67-64-1	Acetone	16	U
75-15-0	Carbon Disulfide	16	U
75-35-4	1,1-Dichloroethene	16	U
75-34-3	1,1-Dichloroethane	16	U
540-59-0	1,2-Dichloroethene (total)	16	U
67-66-3	Chloroform	16	U
107-06-2	1,2-Dichloroethane	16	U
78-93-3	2-Butanone	16	U
71-55-6	1,1,1-Trichloroethane	16	U
56-23-5	Carbon Tetrachloride	16	U
75-27-4	Bromodichloromethane	16	U
78-87-5	1,2-Dichloropropane	16	U
10061-01-5	cis-1,3-Dichloropropene	16	U
79-01-6	Trichloroethene	16	U
124-48-1	Dibromochloromethane	16	U
79-00-5	1,1,2-Trichloroethane	16	U
71-43-2	Benzene	16	U
10061-02-6	trans-1,3-Dichloropropene	16	U
75-25-2	Bromoform	16	U
108-10-1	4-Methyl-2-Pentanone	16	U
591-78-6	2-Hexanone	16	U
127-18-4	Tetrachloroethene	16	U
79-34-5	1,1,2,2-Tetrachloroethane	16	U
108-88-3	Toluene	16	U
108-90-7	Chlorobenzene	16	U
100-41-4	Ethylbenzene	16	U
100-42-5	Styrene	16	U
1330-20-7	Xylene (Total)	16	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD17RE

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: 25973.17RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C20668.D

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

% Moisture: not dec. 37 Date Analyzed: 06/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.173	10	J
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD18 SS18

ab 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: 25973.18

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C20666.D

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

% Moisture: not dec. 9 Date Analyzed: 06/21/96

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	19	
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (Total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD18

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: 25973.18

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C20666.D

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

% Moisture: not dec. 9 Date Analyzed: 06/21/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD18RE SS18

ab 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: 25973.18RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C20669.D

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

% Moisture: not dec. 9 Date Analyzed: 06/21/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	21	
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (Total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD18RE

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: 25973.18RA

Sample wt/vol: 5.0 (g/mL) G Lab File ID: C20669.D

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

% Moisture: not dec. 9 Date Analyzed: 06/21/96

GC Column:DB-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

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

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

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLK1	78	76	76	79	74	74	74	75	0
02	EZD14	70	78	75	72	71	68	69	70	0
03	EZD15	67	68	83	66	55	39	58	64	0
04	EZD01	85	97	110	73	78	68	70	74	0
05	EZD01MS	75	87	101	67	71	69	64	67	0
06	EZD01MSD	82	97	108	68	74	78	68	70	0
07	EZD01DL	76	86	81	68	76	67	70	72	0
08	EZD06	64	76	76	60	66	56	62	60	0
09	EZD07	60	72	68	55	60	51	56	54	0
10	EZD08	68	84	72	60	70	58	65	62	0
11	EZD11	63	75	75	59	70	53	62	64	0
12	SBLK2	70	77	79	60	45	43	53	67	0
13	EZD03	63	77	80	71	59	58	68	64	0
14	EZD07DL	63	75	86	74	62	55	70	69	0
15	EZD08RE	56	74	107	69	58	45	69	67	0
16	EZD11DL	73	91	101	89	76	52	85	82	0
17	EZD16	85	94	119	98	82	80	91	86	0
18	EZD17	47	56	68	52	44	39	49	46	0
19	EZD02	52	68	102	69	50	58	62	64	0
20	EZD05	67	84	117	78	59	65	66	71	0
21	EZD09	73	81	141*	90	63	86	72	69	1
22	EZD10	57	71	93	68	52	57	62	59	0
23	EZD12	73	89	128	88	69	72	80	80	0
24	EZD04	55	64	68	65	50	47	56	51	0
25	EZD09DL	71	79	99	85	60	74	74	72	0
26	EZD13	64	73	80	75	54	47	69	67	0
27	EZD18	73	87	80	82	63	67	78	73	0
28										
29										
30										

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

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

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

Matrix Spike - EPA Sample No.: EZD01 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3000	0	1900	63	26- 90
2-Chlorophenol	3000	0	1800	60	25-102
1,4-Dichlorobenzene	2000	32	1300	63	28-104
N-Nitroso-di-n-prop.(1)	2000	0	1400	70	41-126
1,2,4-Trichlorobenzene	2000	0	1300	65	38-107
4-Chloro-3-Methylphenol	3000	0	1500	50	26-103
Acenaphthene	2000	270	1700	72	31-137
4-Nitrophenol	3000	0	1800	60	11-114
2,4-Dinitrotoluene	2000	0	1300	65	28- 89
Pentachlorophenol	3000	0	1000	33	17-109
Pyrene	2000	14000	16000	100	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC
Phenol	3000	2000	67	6	35	26- 90
2-Chlorophenol	3000	2000	67	11	50	25-102
1,4-Dichlorobenzene	2000	1400	68	8	27	28-104
N-Nitroso-di-n-prop.(1)	2000	1600	80	13	38	41-126
1,2,4-Trichlorobenzene	2000	1500	75	14	23	38-107
4-Chloro-3-Methylphenol	3000	1700	57	13	33	26-103
Acenaphthene	2000	2100	92	24*	19	31-137
4-Nitrophenol	3000	1700	57	5	50	11-114
2,4-Dinitrotoluene	2000	1400	70	7	47	28- 89
Pentachlorophenol	3000	1000	33	0	47	17-109
Pyrene	2000	17000	150*	40*	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 2 out of 11 outside limits
Spike Recovery: 1 out of 22 outside limits

COMMENTS: _____

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1

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

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

Lab File ID: FFH915.D Lab Sample ID: BL0620SE

Instrument ID: F Date Extracted: 06/20/96

Matrix: (soil/water) SOIL Date Analyzed: 07/08/96

Level:(low/med) LOW Time Analyzed: 1026

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EZD14	25973.14	FFH917.D	07/08/96
02	EZD15	25973.15	FFH918.D	07/08/96
03	EZD01	25973.01	FFH919.D	07/08/96
04	EZD01MS	25973.01MS	FFH920.D	07/08/96
05	EZD01MSD	25973.01MSD	FFH921.D	07/08/96
06	EZD01DL	25973.01DL	FFH922.D	07/08/96
07	EZD06	25973.06	FFH925.D	07/08/96
08	EZD07	25973.07	FFH926.D	07/08/96
09	EZD08	25973.08	FFH927.D	07/08/96
10	EZD11	25973.11	FFH928.D	07/08/96
11	EZD03	25973.03	FFH952.D	07/09/96
12	EZD07DL	25973.07DL	FFH955.D	07/09/96
13	EZD08RE	25973.08RA	FFH956.D	07/09/96
14	EZD11DL	25973.11DL	FFH957.D	07/09/96
15	EZD16	25973.16	FFH958.D	07/09/96
16	EZD17	25973.17	FFH959.D	07/09/96
17	EZD04	25973.04	FFH972.D	07/10/96
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COMMENTS:

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4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK2

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

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

Lab File ID: FFH951.D Lab Sample ID: - -BL0701SG

Instrument ID: F Date Extracted: 07/01/96

Matrix: (soil/water) SOIL Date Analyzed: 07/09/96

Level:(low/med) LOW Time Analyzed: 1336

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EZD02	25973.02	FFH961.D	07/09/96
02	EZD05	25973.05	FFH962.D	07/09/96
03	EZD09	25973.09	FFH963.D	07/09/96
04	EZD10	25973.10	FFH964.D	07/09/96
05	EZD12	25973.12	FFH965.D	07/09/96
06	EZD09DL	25973.09DL	FFH973.D	07/10/96
07	EZD13	25973.13	FFH974.D	07/10/96
08	EZD18	25973.18	FFH975.D	07/10/96
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COMMENTS:

page 01 of 01

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1

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: BL0620SE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH915.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 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: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1

ab 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: BL0620SE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH915.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 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: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	120	J
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	40	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	26	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1

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: BL0620SE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH915.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 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: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICs found: 9

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-	2.970	1200	NJA
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.386	1200	NJA
3.	UNKNOWN	3.510	120	J
4. 110-13-4	2,5-Hexanedione	4.216	110	NJ
5.	UNKNOWN AMIDE	18.206	78	J
6.	UNKNOWN AMIDE	18.372	110	J
7.	UNKNOWN AMIDE	20.054	1800	J
8.	Hexanedioic acid, este	20.283	72	J
9.	UNKNOWN AMIDE	23.353	330	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK2

ab 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: BLQ701SG

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH951.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 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: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)Ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-Methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	830	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK2

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: BL0701SG

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH951.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 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: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	830	U
100-02-7	4-Nitrophenol	830	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	32	J
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	830	U
534-52-1	4,6-Dinitro-2-methylphenol	830	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	830	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	330	U
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	330	U
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	34	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK2

ab 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: BL0701SG

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH951.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 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: 7.0

Number TICs found: 12

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-	2.970	540	NJA
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.344	760	NJA
3.	UNKNOWN	4.300	300	J
4.	UNKNOWN	4.393	120	J
5.	UNKNOWN	6.377	100	J
6.	UNKNOWN	7.871	85	J
7.	UNKNOWN PHTHALATE	11.988	75	J
8.	UNKNOWN ORGANIC ACID	12.030	130	J
9.	UNKNOWN AMIDE	18.185	92	J
10.	UNKNOWN AMIDE	19.846	1400	J
11.	Hexanedioic acid, este	20.086	89	J
12.	UNKNOWN AMIDE	23.158	680	J
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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD01 SS1

ɔ 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: 25973.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH919.D

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

% Moisture: 17 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: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	400	U
111-44-4	bis(2-Chloroethyl)Ether	400	U
95-57-8	2-Chlorophenol	400	U
541-73-1	1,3-Dichlorobenzene	400	U
106-46-7	1,4-Dichlorobenzene	32	J
95-50-1	1,2-Dichlorobenzene	400	U
95-48-7	2-Methylphenol	400	U
108-60-1	2,2'-oxybis(1-Chloropropane)	400	U
106-44-5	4-Methylphenol	400	U
621-64-7	N-Nitroso-di-n-propylamine	400	U
67-72-1	Hexachloroethane	400	U
98-95-3	Nitrobenzene	400	U
78-59-1	Isophorone	400	U
88-75-5	2-Nitrophenol	400	U
105-67-9	2,4-Dimethylphenol	400	U
111-91-1	bis(2-Chloroethoxy)methane	400	U
120-83-2	2,4-Dichlorophenol	400	U
120-82-1	1,2,4-Trichlorobenzene	400	U
91-20-3	Naphthalene	150	J
106-47-8	4-Chloroaniline	400	U
87-68-3	Hexachlorobutadiene	400	U
59-50-7	4-Chloro-3-Methylphenol	400	U
91-57-6	2-Methylnaphthalene	110	J
77-47-4	Hexachlorocyclopentadiene	400	U
88-06-2	2,4,6-Trichlorophenol	400	U
95-95-4	2,4,5-Trichlorophenol	1000	U
91-58-7	2-Chloronaphthalene	400	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	400	U
208-96-8	Acenaphthylene	83	J
606-20-2	2,6-Dinitrotoluene	400	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	270	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD01 SS1

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: 25973.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH919.D

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

% Moisture: 17 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: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1000	U
100-02-7	4-Nitrophenol	1000	U
132-64-9	Dibenzofuran	200	J
121-14-2	2,4-Dinitrotoluene	400	U
84-66-2	Diethylphthalate	400	U
7005-72-3	4-Chlorophenyl-phenylether	400	U
86-73-7	Fluorene	100	J
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	400	U
101-55-3	4-Bromophenyl-phenylether	400	U
118-74-1	Hexachlorobenzene	400	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	4800	E
120-12-7	Anthracene	1000	
86-74-8	Carbazole	730	
84-74-2	Di-n-butylphthalate	2400	B
206-44-0	Fluoranthene	11000	E
129-00-0	Pyrene	14000	E
85-68-7	Butylbenzylphthalate	540	
91-94-1	3,3'-Dichlorobenzidine	400	U
56-55-3	Benzo(a)anthracene	11000	E
218-01-9	Chrysene	12000	E
117-81-7	bis(2-Ethylhexyl)phthalate	660	B
117-84-0	Di-n-octylphthalate	400	U
205-99-2	Benzo(b)fluoranthene	11000	E
207-08-9	Benzo(k)fluoranthene	7000	E
50-32-8	Benzo(a)pyrene	8200	E
193-39-5	Indeno(1,2,3-cd)pyrene	7700	E
53-70-3	Dibenz(a,h)anthracene	3900	E
191-24-2	Benzo(g,h,i)perylene	9000	E

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD01

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: 25973.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH919.D

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

% Moisture: 17 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: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

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-	2.981	990	NJAB
2.	UNKNOWN	3.324	690	J
3. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.397	1100	NJAB
4.	Phenanthrene, -methyl-	15.816	610	J
5.	Phenanthrene, -methyl-	15.879	730	J
6.	UNKNOWN PAH	16.090	940	J
7. 57-10-3	Hexadecanoic acid	16.227	1000	NJ
8. 612-94-2	Naphthalene, 2-phenyl-	16.597	820	NJ
9. 84-65-1	9,10-Anthracenedione	16.639	720	NJ
10. 5737-13-3	Cyclopenta(def)phenanthrenon	17.443	690	NJ
11.	UNKNOWN	17.952	950	J
12.	UNKNOWN PAH	18.749	980	J
13. 243-17-4	11H-Benzo[b]fluorene	19.015	1900	NJ
14. 82-05-3	7H-Benz[de]anthracen-7-one	20.324	1600	NJ
15. 239-35-0	Benzo[b]naphtho[2,1-d]thioph	20.570	630	NJ
16.	UNKNOWN PAH	20.676	1200	J
17. 82-05-3	7H-Benz[de]anthracen-7-one	20.847	1200	NJ
18.	UNKNOWN PAH	21.850	780	J
19.	UNKNOWN	22.107	630	J
20. 1705-84-6	Triphenylene, 2-methyl-	22.214	840	NJ
21. 3351-28-8	Chrysene, 1-methyl-	22.320	620	NJ
22.	UNKNOWN PAH	23.390	790	J
23. 205-82-3	Benzo[j]fluoranthene	23.978	1000	NJ
24.	UNKNOWN PAH	24.203	690	J
25. 198-55-0	Perylene	24.631	1500	NJ
26.	UNKNOWN PAH	24.706	710	J
27.	UNKNOWN	25.210	1000	J
28.	UNKNOWN PAH	26.472	820	J
29.	UNKNOWN	26.515	850	J
30.	UNKNOWN PAH	26.954	1200	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD01

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: 25973.01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH919.D

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

% Moisture: 17 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: 1.0

GPC Cleanup: (Y/N) Y pH: 6.8

Number TICs found: 35

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	27.028	650	J
2.	UNKNOWN PAH	28.202	650	J
3. 0-00-0	1,2:3,4-Dibenzpyrene	29.448	1200	NJ
4. 0-00-0	[3,4:9,10]Dibenzpyrene	29.575	660	NJ
5.	Naphtho[]chrysene	30.215	1300	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD01DL

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: 25973.01DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH922.D

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

% Moisture: 17 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: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4000	U
111-44-4	bis(2-Chloroethyl)Ether	4000	U
95-57-8	2-Chlorophenol	4000	U
541-73-1	1,3-Dichlorobenzene	4000	U
106-46-7	1,4-Dichlorobenzene	4000	U
95-50-1	1,2-Dichlorobenzene	4000	U
95-48-7	2-Methylphenol	4000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4000	U
106-44-5	4-Methylphenol	4000	U
621-64-7	N-Nitroso-di-n-propylamine	4000	U
67-72-1	Hexachloroethane	4000	U
98-95-3	Nitrobenzene	4000	U
78-59-1	Isophorone	4000	U
88-75-5	2-Nitrophenol	4000	U
105-67-9	2,4-Dimethylphenol	4000	U
111-91-1	bis(2-Chloroethoxy)methane	4000	U
120-83-2	2,4-Dichlorophenol	4000	U
120-82-1	1,2,4-Trichlorobenzene	4000	U
91-20-3	Naphthalene	4000	U
106-47-8	4-Chloroaniline	4000	U
87-68-3	Hexachlorobutadiene	4000	U
59-50-7	4-Chloro-3-Methylphenol	4000	U
91-57-6	2-Methylnaphthalene	4000	U
77-47-4	Hexachlorocyclopentadiene	4000	U
88-06-2	2,4,6-Trichlorophenol	4000	U
95-95-4	2,4,5-Trichlorophenol	10000	U
91-58-7	2-Chloronaphthalene	4000	U
88-74-4	2-Nitroaniline	10000	U
131-11-3	Dimethylphthalate	4000	U
208-96-8	Acenaphthylene	4000	U
606-20-2	2,6-Dinitrotoluene	4000	U
99-09-2	3-Nitroaniline	10000	U
83-32-9	Acenaphthene	4000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD01DL

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: 25973.01DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH922.D

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

% Moisture: 17 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: 6.8

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	10000	U
100-02-7	4-Nitrophenol	10000	U
132-64-9	Dibenzofuran	4000	U
121-14-2	2,4-Dinitrotoluene	4000	U
84-66-2	Diethylphthalate	4000	U
7005-72-3	4-Chlorophenyl-phenylether	4000	U
86-73-7	Fluorene	4000	U
100-01-6	4-Nitroaniline	10000	U
534-52-1	4,6-Dinitro-2-methylphenol	10000	U
86-30-6	N-Nitrosodiphenylamine (1)	4000	U
101-55-3	4-Bromophenyl-phenylether	4000	U
118-74-1	Hexachlorobenzene	4000	U
87-86-5	Pentachlorophenol	10000	U
85-01-8	Phenanthrene	4800	D
120-12-7	Anthracene	1000	JD
86-74-8	Carbazole	840	JD
84-74-2	Di-n-butylphthalate	4000 ~~2400~~	JBD U KM 8/09/96
206-44-0	Fluoranthene	16000	D
129-00-0	Pyrene	13000	D
85-68-7	Butylbenzylphthalate	430	JD
91-94-1	3,3'-Dichlorobenzidine	4000	U
56-55-3	Benzo(a)anthracene	10000	D
218-01-9	Chrysene	12000	D
117-81-7	bis(2-Ethylhexyl)phthalate	4000 ~~710~~	JBD U KM 8/09/96
117-84-0	Di-n-octylphthalate	4000	U
205-99-2	Benzo(b)fluoranthene	9200	D
207-08-9	Benzo(k)fluoranthene	8500	D
50-32-8	Benzo(a)pyrene	8000	D
193-39-5	Indeno(1,2,3-cd)pyrene	6700	D
53-70-3	Dibenz(a,h)anthracene	3500	JD
191-24-2	Benzo(g,h,i)perylene	7400	D

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD01DL

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: 25973.01DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH922.D

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

% Moisture: 17 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: 6.8

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-	2.958	1400	NJABD
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.374	1400	NJABD
3.	UNKNOWN PAH	16.089	1000	JD
4.	UNKNOWN	17.932	1500	JD
5. 243-42-5	Benzo[b]naphtho[2,3-d]furan	18.454	1700	NJD
6. 1210-12-4	9-Anthracenecarbonitrile	18.527	1200	NJD
7.	UNKNOWN PAH	18.737	2200	JD
8.	11H-Benzo[]fluorene	18.998	4100	JD
9. 82-05-3	7H-Benz[de]anthracen-7-one	20.307	3400	NJD
10. 239-35-0	Benzo[b]naphtho[2,1-d]thioph	20.558	1200	NJD
11.	UNKNOWN PAH	20.653	2600	JD
12.	UNKNOWN	20.748	1400	JD
13.	7H-Benz[]anthracen--one	20.821	2700	JD
14.	UNKNOWN PAH	21.694	2000	JD
15.	UNKNOWN PAH	21.830	1400	JD
16. 1705-84-6	Triphenylene, 2-methyl-	22.199	2000	NJD
17.	-Methylchrysene	22.293	1500	JD
18.	UNKNOWN PAH	22.736	1400	JD
19.	UNKNOWN PAH	23.367	2500	JD
20.	Benzo[]fluoranthene	23.937	3300	JD
21.	UNKNOWN PAH	24.169	3900	JD
22. 192-97-2	Benzo[e]pyrene	24.306	8900	NJD
23. 198-55-0	Perylene	24.591	4000	NJD
24.	UNKNOWN PAH	24.686	2200	JD
25.	UNKNOWN	24.770	1600	JD
26.	UNKNOWN	26.249	3100	JD
27.	UNKNOWN PAH	26.450	1600	JD
28.	UNKNOWN PAH	26.471	1700	JD
29.	UNKNOWN PAH	26.850	1500	JD
30.	UNKNOWN PAH	26.924	2900	JD

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD01DL

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: 25973.01DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH922.D

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

% Moisture: 17 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: 6.8

Number TICs found: 35

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	26.998	1600	JD
2.	Naphtho[-def]chrysene	29.407	3000	JD
3. 0-00-0	1,2:3,4-Dibenzpyrene	29.544	1600	NJD
4.	Naphtho[-def]chrysene	30.144	2100	JD
5.	Naphtho[-def]chrysene	30.186	2000	JD
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD02 SS2

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: 25973.02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH961.D

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

% Moisture: 32 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: 7.4

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	4800	U
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	1100	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD02

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: 25973.02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH961.D

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

% Moisture: 32 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: 7.4

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	620	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	1000	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	16000	
120-12-7	Anthracene	3900	J
86-74-8	Carbazole	3700	J
84-74-2	Di-n-butylphthalate	1400	J
206-44-0	Fluoranthene	22000	
129-00-0	Pyrene	30000	
85-68-7	Butylbenzylphthalate	5100	
91-94-1	3,3'-Dichlorobenzidine	4800	U
56-55-3	Benzo(a)anthracene	16000	
218-01-9	Chrysene	20000	
117-81-7	bis(2-Ethylhexyl)phthalate	10000	B
117-84-0	Di-n-octylphthalate	4800	U
205-99-2	Benzo(b)fluoranthene	20000	
207-08-9	Benzo(k)fluoranthene	13000	
50-32-8	Benzo(a)pyrene	10000	
193-39-5	Indeno(1,2,3-cd)pyrene	10000	
53-70-3	Dibenz(a,h)anthracene	5700	
191-24-2	Benzo(g,h,i)perylene	11000	

(1) - Cannot be separated from Diphenylamine

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD02

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: 25973.02

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH961.D

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

% Moisture: 32 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: 7.4

Number TICs found: 25

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	13.912	1500	NJ
2.		Anthracene, -methyl-	15.636	2000	J
3.		Anthracene, -methyl-	15.700	2000	J
4.		UNKNOWN PAH	15.910	2200	J
5.		Phenanthrene, -methyl-	15.974	1000	J
6.		UNKNOWN ORGANIC ACID	16.069	2800	J
7.		Naphthalene, -phenyl-	16.407	1400	J
8.	84-65-1	9,10-Anthracenedione	16.481	1400	NJ
9.		11H-Benzo[]fluorene	18.579	1900	J
10.		11H-Benzo[]fluorene	18.834	2600	J
11.		UNKNOWN PAH	19.154	1200	J
12.		1,1'-Biphenyl, -hexachloro	20.090	5000	J
13.	82-05-3	7H-Benz[de]anthracen-7-one	20.165	15000	NJ
14.	78-51-3	Ethanol, 2-butoxy-, phosphat	20.282	9700	NJ
15.	239-35-0	Benzo[b]naphtho[2,1-d]thioph	20.399	10000	NJ
16.		UNKNOWN PAH	20.495	15000	J
17.	82-05-3	7H-Benz[de]anthracen-7-one	20.687	10000	NJ
18.		UNKNOWN PHTHALATE	21.359	4700	J
19.		UNKNOWN PAH	21.572	6300	J
20.		UNKNOWN PAH	21.700	5600	J
21.		Benz[a]anthracene, -methyl-	22.042	7400	J
22.		UNKNOWN PAH	23.792	6300	J
23.		UNKNOWN PAH	24.999	6700	J
24.	0-00-0	1,2:3,4-Dibenzpyrene	29.277	8900	NJ
25.		UNKNOWN	29.672	5800	J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD03 SS3

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: 25973.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH952.D

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

% Moisture: 29 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: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	4600	U
111-44-4	bis(2-Chloroethyl)Ether	4600	U
95-57-8	2-Chlorophenol	4600	U
541-73-1	1,3-Dichlorobenzene	4600	U
106-46-7	1,4-Dichlorobenzene	4600	U
95-50-1	1,2-Dichlorobenzene	4600	U
95-48-7	2-Methylphenol	4600	U
108-60-1	2,2'-oxybis(1-Chloropropane)	4600	U
106-44-5	4-Methylphenol	4600	U
621-64-7	N-Nitroso-di-n-propylamine	4600	U
67-72-1	Hexachloroethane	4600	U
98-95-3	Nitrobenzene	4600	U
78-59-1	Isophorone	4600	U
88-75-5	2-Nitrophenol	4600	U
105-67-9	2,4-Dimethylphenol	4600	U
111-91-1	bis(2-Chloroethoxy)methane	4600	U
120-83-2	2,4-Dichlorophenol	4600	U
120-82-1	1,2,4-Trichlorobenzene	4600	U
91-20-3	Naphthalene	280	J
106-47-8	4-Chloroaniline	4600	U
87-68-3	Hexachlorobutadiene	4600	U
59-50-7	4-Chloro-3-Methylphenol	4600	U
91-57-6	2-Methylnaphthalene	4600	U
77-47-4	Hexachlorocyclopentadiene	4600	U
88-06-2	2,4,6-Trichlorophenol	4600	U
95-95-4	2,4,5-Trichlorophenol	12000	U
91-58-7	2-Chloronaphthalene	4600	U
88-74-4	2-Nitroaniline	12000	U
131-11-3	Dimethylphthalate	4600	U
208-96-8	Acenaphthylene	4600	U
606-20-2	2,6-Dinitrotoluene	4600	U
99-09-2	3-Nitroaniline	12000	U
83-32-9	Acenaphthene	300	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD03 SS3

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: 25973.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH952.D

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

% Moisture: 29 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: 7.4

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	450	J	
121-14-2	2,4-Dinitrotoluene	4600	U	
84-66-2	Diethylphthalate	4600 ~~320~~	JB	U KM 8/09/96
7005-72-3	4-Chlorophenyl-phenylether	4600	U	
86-73-7	Fluorene	4600	U	
100-01-6	4-Nitroaniline	12000	U	
534-52-1	4,6-Dinitro-2-methylphenol	12000	U	
86-30-6	N-Nitrosodiphenylamine (1)	4600	U	
101-55-3	4-Bromophenyl-phenylether	4600	U	
118-74-1	Hexachlorobenzene	4600	U	
87-86-5	Pentachlorophenol	12000	U	
85-01-8	Phenanthrene	12000		
120-12-7	Anthracene	1500	J	
86-74-8	Carbazole	1800	J	
84-74-2	Di-n-butylphthalate	4600 ~~1000~~	JB	U KM 8/09/96
206-44-0	Fluoranthene	25000		
129-00-0	Pyrene	25000		
85-68-7	Butylbenzylphthalate	1800	J	
91-94-1	3,3'-Dichlorobenzidine	4600	U	
56-55-3	Benzo(a)anthracene	21000		
218-01-9	Chrysene	21000		
117-81-7	bis(2-Ethylhexyl)phthalate	4600 ~~3600~~	JB	U KM 8/09/96
117-84-0	Di-n-octylphthalate	4600	U	
205-99-2	Benzo(b)fluoranthene	22000		
207-08-9	Benzo(k)fluoranthene	15000		
50-32-8	Benzo(a)pyrene	11000		
193-39-5	Indeno(1,2,3-cd)pyrene	12000		
53-70-3	Dibenz(a,h)anthracene	5300		
191-24-2	Benzo(g,h,i)perylene	14000		

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD03

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: 25973.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH952.D

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

% Moisture: 29 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: 7.4

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-	2.917	1500	NJA
2. 123-42-2	2-Pentanone, 4-hydroxy-4-met	3.291	1900	NJA
3.	Pentanedioic acid, ester	6.284	1900	J
4. 627-93-0	Hexanedioic acid, dimethyl e	7.572	1500	NJ
5. 486-25-9	9H-Fluoren-9-one	13.881	1600	NJ
6.	Phenanthrene, -methyl-	15.607	2000	J
7. 57-10-3	Hexadecanoic acid	16.027	1400	NJ
8.	1,1'-Biphenyl, -Tetrachloro-	16.059	1500	J
9. 5737-13-3	Cyclopenta(def)phenanthrenon	17.226	2000	NJ
10.	1,1'-Biphenyl, -tetrachloro-	17.310	3100	J
11.	UNKNOWN	17.732	1200	J
12.	1,1'-Biphenyl, -pentachloro-	17.849	5800	J
13.	1,1'-Biphenyl, -pentachloro-	18.282	1600	J
14.	1,1'-Biphenyl, -pentachloro-	18.388	1600	J
15.	11H-Benzo[]fluorene	18.525	1400	J
16.	1,1'-Biphenyl, -pentachloro-	18.589	2600	J
17.	11H-Benzo[]fluorene	18.801	2500	J
18.	Pyrene, -ethyl-	19.055	2600	J
19.	1,1'-Biphenyl, -pentachloro-	19.097	2500	J
20.	1,1'-Biphenyl, -hexachloro	19.510	4800	J
21.	1,1'-Biphenyl, -Hexachloro-	19.595	5900	J
22.	1,1'-Biphenyl, -hexachloro	20.062	7600	J
23. 82-05-3	7H-Benz[de]anthracen-7-one	20.115	8800	NJ
24. 78-51-3	Ethanol, 2-butoxy-, phosphat	20.264	18000	NJ
25.	UNKNOWN PAH	20.465	5600	J
26. 82-05-3	7H-Benz[de]anthracen-7-one	20.635	9600	NJ
27.	UNKNOWN PAH	21.516	3600	J
28.	Triphenylene, -methyl-	22.004	4100	J
29.	UNKNOWN PAH	23.183	4000	J
30. 192-97-2	Benzo[e]pyrene	24.129	19000	NJ

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EZD03

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: 25973.03

Sample wt/vol: 30.0 (g/mL) G Lab File ID: FFH952.D

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

% Moisture: 29 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: 7.4

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	24.405	4000	NJ
2. 215-58-7	Benzo[b]triphenylene	26.734	3800	NJ
3.	-Dibenzpyrene	29.191	6500	J
4.	[]Dibenzpyrene	29.340	4000	J
5. 191-07-1	Coronene	29.979	4800	NJ
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD04 SS4

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	8800	U
111-44-4	bis(2-Chloroethyl)Ether	8800	U
95-57-8	2-Chlorophenol	8800	U
541-73-1	1,3-Dichlorobenzene	8800	U
106-46-7	1,4-Dichlorobenzene	8800	U
95-50-1	1,2-Dichlorobenzene	8800	U
95-48-7	2-Methylphenol	8800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	8800	U
106-44-5	4-Methylphenol	8800	U
621-64-7	N-Nitroso-di-n-propylamine	8800	U
67-72-1	Hexachloroethane	8800	U
98-95-3	Nitrobenzene	8800	U
78-59-1	Isophorone	8800	U
88-75-5	2-Nitrophenol	8800	U
105-67-9	2,4-Dimethylphenol	8800	U
111-91-1	bis(2-Chloroethoxy)methane	8800	U
120-83-2	2,4-Dichlorophenol	8800	U
120-82-1	1,2,4-Trichlorobenzene	8800	U
91-20-3	Naphthalene	8800	U
106-47-8	4-Chloroaniline	8800	U
87-68-3	Hexachlorobutadiene	8800	U
59-50-7	4-Chloro-3-Methylphenol	8800	U
91-57-6	2-Methylnaphthalene	8800	U
77-47-4	Hexachlorocyclopentadiene	8800	U
88-06-2	2,4,6-Trichlorophenol	8800	U
95-95-4	2,4,5-Trichlorophenol	22000	U
91-58-7	2-Chloronaphthalene	8800	U
88-74-4	2-Nitroaniline	22000	U
131-11-3	Dimethylphthalate	8800	U
208-96-8	Acenaphthylene	8800	U
606-20-2	2,6-Dinitrotoluene	8800	U
99-09-2	3-Nitroaniline	22000	U
83-32-9	Acenaphthene	1300	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EZD04 SS4

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

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	780	J
121-14-2	2,4-Dinitrotoluene	8800	U
84-66-2	Diethylphthalate	8800	U
7005-72-3	4-Chlorophenyl-phenylether	8800	U
86-73-7	Fluorene	760	J
100-01-6	4-Nitroaniline	22000	U
534-52-1	4,6-Dinitro-2-methylphenol	22000	U
86-30-6	N-Nitrosodiphenylamine (1)	8800	U
101-55-3	4-Bromophenyl-phenylether	8800	U
118-74-1	Hexachlorobenzene	8800	U
87-86-5	Pentachlorophenol	22000	U
85-01-8	Phenanthrene	16000	
120-12-7	Anthracene	3200	J
86-74-8	Carbazole	3000	J
84-74-2	Di-n-butylphthalate	2800	JB u KM 8/09/96
206-44-0	Fluoranthene	35000	
129-00-0	Pyrene	30000	
85-68-7	Butylbenzylphthalate	1100	J
91-94-1	3,3'-Dichlorobenzidine	8800	U
56-55-3	Benzo(a)anthracene	26000	
218-01-9	Chrysene	29000	
117-81-7	bis(2-Ethylhexyl)phthalate	8800 ~~5100~~	JB u KM 8/09/96
117-84-0	Di-n-octylphthalate	3100	J
205-99-2	Benzo(b)fluoranthene	25000	
207-08-9	Benzo(k)fluoranthene	20000	
50-32-8	Benzo(a)pyrene	16000	
193-39-5	Indeno(1,2,3-cd)pyrene	14000	
53-70-3	Dibenz(a,h)anthracene	6900	J
191-24-2	Benzo(g,h,i)perylene	16000	

(1) - Cannot be separated from Diphenylamine