Versar INC.

ENVIRONMENTAL RISK MANAGEMENT

Versar INC.

ORIGINAL
(Red)

441616

SEMIVOLATILE ANALYSIS
DATA SUMMARY PACKAGE

CLIENT : VERSAR DIV. 31
SITE : CDM
PROJECT: 420.1
CONTROL: 2536
DATE : 05/30/90

Versar INC.

ORIGINAL
(Red)

May 30, 1990

Narrative
Versar Division 31 - CDM
Semivolatile Organic Analysis - EPA CLP Protocol
Versar Project 420.1 - Batch 2
Control 2536

This report contains the analytical data for the semivolatile organic analysis of six (6) sludge samples. The samples listed below arrived at Versar on April 19, 1990. Results from the Toxicity Characteristic Leaching Procedure (TCLP) will be reported separately. Results for additional analytical parameters are provided separately.

SAMPLE LIST

1	3	6
2	5	7

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GC/MS instrument calibrations using DFTPP met requirements for semivolatile organic analysis. SPCC and CCC criteria were met for the semivolatile initial calibration curves and the continuing calibration standards. All GC/MS analyses occurred during the twelve hour period that followed daily instrument calibration. All sample extractions and analyses for semivolatile organic compounds were completed within ten days of sample receipt.

Semivolatile surrogate standard recovery values met specified criteria for all initial sample analyses. The analysis of 1-MSD had all surrogate recovery values above the specified QC limits. When considering all other surrogate recovery values, it appears that the MSD was double-spiked during extraction. The low soil blank extracted with the samples, SBLK66, was not spiked with surrogate solution during extraction. Another blank, SBLK65, extracted on the same day has been included in this report. Internal standard area abundances and associated relative retention times met specified QC limits for all analyses. One set of matrix spike and matrix spike duplicate (MS/MSD) QC analyses was analyzed for the soil matrix. Most recovery and all relative percent difference (RPD) values were within specified limits. The samples were analyzed without dilution. A dilution factor of 1.053 should be applied to the low soil samples when verifying detection limits. This value will correct for the method specified pesticide split. Nontarget compounds were tentatively identified using the EPA/NBS Mass Spectral Database Library.

Detection limits and concentrations of semivolatile organic compounds in the soil samples are reported on a "dry weight" basis, which accounts for the moisture content of the samples. The sludge samples were analyzed using protocol developed for the soil matrix and "SOIL" appears as the matrix on the reporting forms.

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Definitions of data qualifier flags used on the individual data summary pages are provided in the listing which immediately follows this case narrative.

Please contact Janet Beckman, Laboratory Project Manager, should you have any questions or require additional information pertaining to the semivolatile organic analysis of these samples.

Data Release Approved By:

Linda E. Bock
GC/MS Data Quality Manager
Laboratory Operations

Narrative Reviewed By:

Lawrence P. Pollack
GC/MS Quality Assurance Manager

Versar INC.

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Data Qualifier Flags

J For Target Compounds: This flag is used when mass spectral data indicates the presence of a compound but the result is less than the specified detection limit but still greater than zero.

For Non Target Compounds: This flag indicates that the concentration is an estimated value, assuming a 1 to 1 response with the internal standard.

B This flag is used when the analyte is found in the blank as well as in the sample. It indicates possible/probable contamination and warns the data user to take appropriate action.

u This flag states that the compound was analyzed for but was not detected. The number is the minimum attainable detection limit for the sample.

X or T This flag states that the mass spectrum does not meet EPA CLP criteria for confirmation, but compound presence is strongly suspected.

E This flag is used to indicate that the quantitation of the analyte is outside the linear calibration of the curve and that dilution was required in order to properly quantitate.

D This flag is used to indicate the value for the target analyte was calculated from a dilution (see "E" flag above).

Y This flag is used when a matrix spike compound is also confirmed present in the unspiked sample.

Flags excerpted from and established by the US EPA Contract Lab Program (CLP) protocol.

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	2	39	44	56	44	37	34	0	0
02	3	58	60	71	63	58	29	0	0
03	7	46	56	71	57	48	53	0	0
04	SBLK66	0 D	0 D	0 D	0 D	0 D	0 D	0	0
	SBLK65	62	72	73	70	72	66		0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

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

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Level:(low/med) MED

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	OTHER	TOT OUT
01	1	83	78	76	82	85	71	0	0
02	5	84	85	78	85	90	63	0	0
03	6	87	76	81	86	96	94	0	0
04	1MS	90	82	81	89	94	88	0	0
05	1MSD	163 *	143 *	138 *	165 *	183 *	165 *	0	6
06	SBLK82	92	85	82	94	99	84	0	0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(23-120)
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)
S3 (TPH)	= Terphenyl	(18-137)
S4 (PHL)	= Phenol-d5	(24-113)
S5 (2FP)	= 2-Fluorophenol	(25-121)
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)

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

ORIGINAL (Red)

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix Spike - EPA Sample No.: 1 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
Phenol	264000	0	218000	83	26- 90
2-Chlorophenol	264000	0	204000	77	25-102
1,4-Dichlorobenzene	264000	0	100000	38	28 104
N-Nitroso-di-n-prop.(1)	264000	0	101000	38 *	41 126
1,2,4-Trichlorobenzene	264000	0	107000	41	38 107
4-Chloro-3-methylphenol	264000	0	233000	88	26 103
Acenaphthene	264000	0	97200	37	31-137
4-Nitrophenol	264000	0	191000	72	11-114
2,4-Dinitrotoluene	264000	0	102000	39	28- 89
Pentachlorophenol	264000	0	192000	73	17-109
Pyrene	264000	0	96200	36	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	293000	231000	79	5	35	26- 90
2-Chlorophenol	293000	216000	74	4	50	25-102
1,4-Dichlorobenzene	293000	104000	35	8	27	28 104
N-Nitroso-di-n-prop.(1)	293000	104000	35 *	8	38	41 126
1,2,4-Trichlorobenzene	293000	109000	37 *	10	23	38 107
4-Chloro-3-methylphenol	293000	231000	79	11	33	26 103
Acenaphthene	293000	97400	33	11	19	31-137
4-Nitrophenol	293000	209000	71	1	50	11-114
2,4-Dinitrotoluene	293000	109000	37	5	47	28- 89
Pentachlorophenol	293000	188000	64	13	47	17-109
Pyrene	293000	94500	32 *	12	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: 0 out of 11 outside limits
Spike Recovery: 4 out of 22 outside limits

COMMENTS: CLP,VERSCDM,2536,1,M,S,16419,B,,420.1.0,2,1UL,
INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN

ORIGINAL (Red)

4B
SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Lab File ID: T2630 Lab Sample ID: SBLK66

Date Extracted: 04/26/90 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed: 05/16/90 Time Analyzed: 2320

Matrix: (soil/water) SOIL Level:(low/med) LOW

Instrument ID: T

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	2	16413	T2631	05/17/90
02	3	16414	T2632	05/17/90
03	7	16424	T2633	05/17/90

COMMENTS: CLP,VERSCDM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN

4B
SEMIVOLATILE METHOD BLANK SUMMARY

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Lab File ID: T2590 Lab Sample ID: SBLK82

Date Extracted: 04/29/90 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed: 05/15/90 Time Analyzed: 1612

Matrix: (soil/water) SOIL Level:(low/med) MED

Instrument ID: T

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	1	16419	T2591	05/15/90
02	5	16422	T2599	05/16/90
03	6	16423	T2594	05/15/90
04	1MS	16419MS	T2592	05/15/90
05	1MSD	16419MSD	T2593	05/15/90

COMMENTS: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1 ORIGINAL (Red)

L. Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419

Sample wt/vol: 1.1 (g/mL) G Lab File ID: T2591

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	26000	U
111-44-4	bis(2-Chloroethyl)ether	26000	U
95-57-8	2-Chlorophenol	26000	U
541-73-1	1,3-Dichlorobenzene	26000	U
106-46-7	1,4-Dichlorobenzene	26000	U
100-51-6	Benzyl alcohol	26000	U
95-50-1	1,2-Dichlorobenzene	26000	U
95-48-7	2-Methylphenol	26000	U
108-60-1	bis(2-Chloroisopropyl)ether	26000	U
106-44-5	4-Methylphenol	26000	U
621-64-7	N-Nitroso-di-n-propylamine	26000	U
67-72-1	Hexachloroethane	26000	U
98-95-3	Nitrobenzene	26000	U
78-59-1	Isophorone	26000	U
88-75-5	2-Nitrophenol	26000	U
105-67-9	2,4-Dimethylphenol	26000	U
65-85-0	Benzoic Acid	130000	U
111-91-1	bis(2-Chloroethoxy)methane	26000	U
120-83-2	2,4-Dichlorophenol	26000	U
120-82-1	1,2,4-Trichlorobenzene	26000	U
91-20-3	Naphthalene	26000	U
106-47-8	4-Chloroaniline	26000	U
87-68-3	Hexachlorobutadiene	26000	U
59-50-7	4-Chloro-3-methylphenol	26000	U
91-57-6	2-Methylnaphthalene	26000	U
77-47-4	Hexachlorocyclopentadiene	26000	U
88-06-2	2,4,6-Trichlorophenol	26000	U
95-95-4	2,4,5-Trichlorophenol	130000	U
91-58-7	2-Chloronaphthalene	26000	U
88-74-4	2-Nitroaniline	130000	U
131-11-3	Dimethylphthalate	26000	U
208-96-8	Acenaphthylene	26000	U
606-20-2	2,6-Dinitrotoluene	26000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ORIGINAL (Red)

1

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419

Sample wt/vol: 1.1 (g/mL) G Lab File ID: T2591

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	130000	U
83-32-9	Acenaphthene	26000	U
51-28-5	2,4-Dinitrophenol	130000	U
100-02-7	4-Nitrophenol	130000	U
132-64-9	Dibenzofuran	26000	U
121-14-2	2,4-Dinitrotoluene	26000	U
84-66-2	Diethylphthalate	26000	U
7005-72-3	4-Chlorophenyl-phenylether	26000	U
86-73-7	Fluorene	26000	U
100-01-6	4-Nitroaniline	130000	U
534-52-1	4,6-Dinitro-2-methylphenol	130000	U
86-30-6	N-nitrosodiphenylamine (1)	26000	U
101-55-3	4-Bromophenyl-phenylether	26000	U
118-74-1	Hexachlorobenzene	26000	U
87-86-5	Pentachlorophenol	130000	U
85-01-8	Phenanthrene	26000	U
120-12-7	Anthracene	26000	U
84-74-2	Di-n-butylphthalate	26000	U
206-44-0	Fluoranthene	26000	U
129-00-0	Pyrene	26000	U
85-68-7	Butylbenzylphthalate	26000	U
91-94-1	3,3'-Dichlorobenzidine	52000	U
56-55-3	Benzo(a)anthracene	26000	U
218-01-9	Chrysene	26000	U
117-81-7	bis(2-Ethylhexyl)phthalate	26000	U
117-84-0	Di-n-octyl phthalate	26000	U
205-99-2	Benzo(b)fluoranthene	26000	U
207-08-9	Benzo(k)fluoranthene	26000	U
50-32-8	Benzo(a)pyrene	26000	U
193-39-5	Indeno(1,2,3-cd)pyrene	26000	U
53-70-3	Dibenz(a,h)anthracene	26000	U
191-24-2	Benzo(g,h,i)perylene	26000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1 ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419

Sample wt/vol: 1.1 (g/mL) G Lab File ID: T2591

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.97

Number TICs found: 19

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	11.70	5300	J
2.	UNKNOWN	12.50	7900	J
3.	UNKNOWN	17.94	16000	J
4.	UNKNOWN	19.55	11000	J
5.	UNKNOWN	24.79	13000	J
6.	UNKNOWN	25.14	13000	J
7.	UNKNOWN	26.86	16000	J
8.	UNKNOWN	28.86	16000	J
9.	UNKNOWN	31.76	100000	J
10.	UNKNOWN HYDROCARBON	32.81	29000	J
11.	UNKNOWN	33.32	16000	J
12.	UNKNOWN	33.44	24000	J
13.	UNKNOWN	35.34	61000	J
14.	UNKNOWN	35.92	110000	J
15.	UNKNOWN	36.72	160000	J
16.	UNKNOWN	37.41	130000	J
17.	UNKNOWN	39.81	260000	J
18.	UNKNOWN	41.69	320000	J
19.	UNKNOWN	44.26	85000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2 ORIGINAL (Red)

L Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16413

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2631

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 30 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	990	U
111-44-4	bis(2-Chloroethyl)ether	990	U
95-57-8	2-Chlorophenol	990	U
541-73-1	1,3-Dichlorobenzene	990	U
106-46-7	1,4-Dichlorobenzene	990	U
100-51-6	Benzyl alcohol	990	U
95-50-1	1,2-Dichlorobenzene	990	U
95-48-7	2-Methylphenol	990	U
108-60-1	bis(2-Chloroisopropyl)ether	990	U
106-44-5	4-Methylphenol	990	U
621-64-7	N-Nitroso-di-n-propylamine	990	U
67-72-1	Hexachloroethane	990	U
98-95-3	Nitrobenzene	990	U
78-59-1	Isophorone	990	U
88-75-5	2-Nitrophenol	990	U
105-67-9	2,4-Dimethylphenol	990	U
65-85-0	Benzoic Acid	4800	U
111-91-1	bis(2-Chloroethoxy)methane	990	U
120-83-2	2,4-Dichlorophenol	990	U
120-82-1	1,2,4-Trichlorobenzene	990	U
91-20-3	Naphthalene	990	U
106-47-8	4-Chloroaniline	990	U
87-68-3	Hexachlorobutadiene	990	U
59-50-7	4-Chloro-3-methylphenol	990	U
91-57-6	2-Methylnaphthalene	990	U
77-47-4	Hexachlorocyclopentadiene	990	U
88-06-2	2,4,6-Trichlorophenol	990	U
95-95-4	2,4,5-Trichlorophenol	4800	U
91-58-7	2-Chloronaphthalene	990	U
88-74-4	2-Nitroaniline	4800	U
131-11-3	Dimethylphthalate	990	U
208-96-8	Acenaphthylene	990	U
606-20-2	2,6-Dinitrotoluene	990	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

2 ORIGINAL (Red)

L Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16413

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2631

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 30 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	4800	U
83-32-9	Acenaphthene	990	U
51-28-5	2,4-Dinitrophenol	4800	U
100-02-7	4-Nitrophenol	4800	U
132-64-9	Dibenzofuran	990	U
121-14-2	2,4-Dinitrotoluene	990	U
84-66-2	Diethylphthalate	990	U
7005-72-3	4-Chlorophenyl-phenylether	990	U
86-73-7	Fluorene	990	U
100-01-6	4-Nitroaniline	4800	U
534-52-1	4,6-Dinitro-2-methylphenol	4800	U
86-30-6	N-nitrosodiphenylamine (1)	990	U
101-55-3	4-Bromophenyl-phenylether	990	U
118-74-1	Hexachlorobenzene	990	U
87-86-5	Pentachlorophenol	4800	U
85-01-8	Phenanthrene	990	U
120-12-7	Anthracene	990	U
84-74-2	Di-n-butylphthalate	990	U
206-44-0	Fluoranthene	990	U
129-00-0	Pyrene	990	U
85-68-7	Butylbenzylphthalate	990	U
91-94-1	3,3'-Dichlorobenzidine	2000	U
56-55-3	Benzo(a)anthracene	990	U
218-01-9	Chrysene	990	U
117-81-7	bis(2-Ethylhexyl)phthalate	990	U
117-84-0	Di-n-octyl phthalate	990	U
205-99-2	Benzo(b)fluoranthene	990	U
207-08-9	Benzo(k)fluoranthene	990	U
50-32-8	Benzo(a)pyrene	990	U
193-39-5	Indeno(1,2,3-cd)pyrene	990	U
53-70-3	Dibenz(a,h)anthracene	990	U
191-24-2	Benzo(g,h,i)perylene	990	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

2 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16413

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2631

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 30 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.1 Dilution Factor: 1.0

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.25	7100	J
2.	UNKNOWN	5.60	800	J
3.	UNKNOWN	7.13	1600	J
4.	UNKNOWN KETONE	7.55	900	J
5.	UNKNOWN	8.47	4600	J
6. 18641-71-9	3-HEPTANONE, 2,4-DIMETHYL-	8.80	2300	J
7.	UNKNOWN	9.79	8900	J
8.	UNKNOWN	34.02	1500	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

3 ORIGINAL (Red)

L. Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16414

Sample wt/vol: 30.7 (g/mL) G Lab File ID: T2632

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 24 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	890	U
111-44-4	bis(2-Chloroethyl)ether	890	U
95-57-8	2-Chlorophenol	890	U
541-73-1	1,3-Dichlorobenzene	890	U
106-46-7	1,4-Dichlorobenzene	890	U
100-51-6	Benzyl alcohol	890	U
95-50-1	1,2-Dichlorobenzene	890	U
95-48-7	2-Methylphenol	890	U
108-60-1	bis(2-Chloroisopropyl)ether	890	U
106-44-5	4-Methylphenol	890	U
621-64-7	N-Nitroso-di-n-propylamine	890	U
67-72-1	Hexachloroethane	890	U
98-95-3	Nitrobenzene	890	U
78-59-1	Isophorone	890	U
88-75-5	2-Nitrophenol	890	U
105-67-9	2,4-Dimethylphenol	890	U
65-85-0	Benzoic Acid	4300	U
111-91-1	bis(2-Chloroethoxy)methane	890	U
120-83-2	2,4-Dichlorophenol	890	U
120-82-1	1,2,4-Trichlorobenzene	890	U
91-20-3	Naphthalene	890	U
106-47-8	4-Chloroaniline	890	U
87-68-3	Hexachlorobutadiene	890	U
59-50-7	4-Chloro-3-methylphenol	890	U
91-57-6	2-Methylnaphthalene	890	U
77-47-4	Hexachlorocyclopentadiene	890	U
88-06-2	2,4,6-Trichlorophenol	890	U
95-95-4	2,4,5-Trichlorophenol	4300	U
91-58-7	2-Chloronaphthalene	890	U
88-74-4	2-Nitroaniline	4300	U
131-11-3	Dimethylphthalate	890	U
208-96-8	Acenaphthylene	890	U
606-20-2	2,6-Dinitrotoluene	890	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

3 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16414

Sample wt/vol: 30.7 (g/mL) G Lab File ID: T2632

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 24 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	4300	U
83-32-9	Acenaphthene	890	U
51-28-5	2,4-Dinitrophenol	4300	U
100-02-7	4-Nitrophenol	4300	U
132-64-9	Dibenzofuran	890	U
121-14-2	2,4-Dinitrotoluene	890	U
84-66-2	Diethylphthalate	890	U
7005-72-3	4-Chlorophenyl-phenylether	890	U
86-73-7	Fluorene	890	U
100-01-6	4-Nitroaniline	4300	U
534-52-1	4,6-Dinitro-2-methylphenol	4300	U
86-30-6	N-nitrosodiphenylamine (1)	890	U
101-55-3	4-Bromophenyl-phenylether	890	U
118-74-1	Hexachlorobenzene	890	U
87-86-5	Pentachlorophenol	4300	U
85-01-8	Phenanthrene	890	U
120-12-7	Anthracene	890	U
84-74-2	Di-n-butylphthalate	890	U
206-44-0	Fluoranthene	890	U
129-00-0	Pyrene	890	U
85-68-7	Butylbenzylphthalate	890	U
91-94-1	3,3'-Dichlorobenzidine	1800	U
56-55-3	Benzo(a)anthracene	890	U
218-01-9	Chrysene	890	U
117-81-7	bis(2-Ethylhexyl)phthalate	890	U
117-84-0	Di-n-octyl phthalate	890	U
205-99-2	Benzo(b)fluoranthene	890	U
207-08-9	Benzo(k)fluoranthene	890	U
50-32-8	Benzo(a)pyrene	890	U
193-39-5	Indeno(1,2,3-cd)pyrene	890	U
53-70-3	Dibenz(a,h)anthracene	890	U
191-24-2	Benzo(g,h,i)perylene	890	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

3 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16414

Sample wt/vol: 30.7 (g/mL) G Lab File ID: T2632

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 24 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.2 Dilution Factor: 1.0

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.25	4500	J
2.	UNKNOWN	5.60	810	J
3.	UNKNOWN	6.22	360	J
4.	UNKNOWN KETONE	7.55	630	J
5.	UNKNOWN KETONE	8.47	1700	J
6.	UNKNOWN	8.82	4500	J
7.	UNKNOWN	9.75	4100	J
8.	UNKNOWN	22.04	540	J
9.	UNKNOWN	34.04	1100	J
10.	UNKNOWN	34.94	630	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5

L. Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16422

Sample wt/vol: 1.2 (g/mL) G Lab File ID: T2599

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 50 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/16/90

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	33000	U
111-44-4	bis(2-Chloroethyl)ether	33000	U
95-57-8	2-Chlorophenol	33000	U
541-73-1	1,3-Dichlorobenzene	33000	U
106-46-7	1,4-Dichlorobenzene	33000	U
100-51-6	Benzyl alcohol	33000	U
95-50-1	1,2-Dichlorobenzene	33000	U
95-48-7	2-Methylphenol	33000	U
108-60-1	bis(2-Chloroisopropyl)ether	33000	U
106-44-5	4-Methylphenol	33000	U
621-64-7	N-Nitroso-di-n-propylamine	33000	U
67-72-1	Hexachloroethane	33000	U
98-95-3	Nitrobenzene	33000	U
78-59-1	Isophorone	33000	U
88-75-5	2-Nitrophenol	33000	U
105-67-9	2,4-Dimethylphenol	33000	U
65-85-0	Benzoic Acid	160000	U
111-91-1	bis(2-Chloroethoxy)methane	33000	U
120-83-2	2,4-Dichlorophenol	33000	U
120-82-1	1,2,4-Trichlorobenzene	33000	U
91-20-3	Naphthalene	33000	U
106-47-8	4-Chloroaniline	33000	U
87-68-3	Hexachlorobutadiene	33000	U
59-50-7	4-Chloro-3-methylphenol	33000	U
91-57-6	2-Methylnaphthalene	33000	U
77-47-4	Hexachlorocyclopentadiene	33000	U
88-06-2	2,4,6-Trichlorophenol	33000	U
95-95-4	2,4,5-Trichlorophenol	160000	U
91-58-7	2-Chloronaphthalene	33000	U
88-74-4	2-Nitroaniline	160000	U
131-11-3	Dimethylphthalate	33000	U
208-96-8	Acenaphthylene	33000	U
606-20-2	2,6-Dinitrotoluene	33000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5 ORIGINAL (Red)

L Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16422

Sample wt/vol: 1.2 (g/mL) G Lab File ID: T2599

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 50 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/16/90

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	160000	U
83-32-9	Acenaphthene	33000	U
51-28-5	2,4-Dinitrophenol	160000	U
100-02-7	4-Nitrophenol	160000	U
132-64-9	Dibenzofuran	33000	U
121-14-2	2,4-Dinitrotoluene	33000	U
84-66-2	Diethylphthalate	33000	U
7005-72-3	4-Chlorophenyl-phenylether	33000	U
86-73-7	Fluorene	33000	U
100-01-6	4-Nitroaniline	160000	U
534-52-1	4,6-Dinitro-2-methylphenol	160000	U
86-30-6	N-nitrosodiphenylamine (1)	33000	U
101-55-3	4-Bromophenyl-phenylether	33000	U
118-74-1	Hexachlorobenzene	33000	U
87-86-5	Pentachlorophenol	160000	U
85-01-8	Phenanthrene	87000	
120-12-7	Anthracene	33000	
84-74-2	Di-n-butylphthalate	33000	U
206-44-0	Fluoranthene	120000	
129-00-0	Pyrene	93000	
85-68-7	Butylbenzylphthalate	33000	U
91-94-1	3,3'-Dichlorobenzidine	66000	U
56-55-3	Benzo(a)anthracene	63000	
218-01-9	Chrysene	76000	
117-81-7	bis(2-Ethylhexyl)phthalate	33000	U
117-84-0	Di-n-octyl phthalate	33000	U
205-99-2	Benzo(b)fluoranthene	58000	
207-08-9	Benzo(k)fluoranthene	48000	
50-32-8	Benzo(a)pyrene	53000	
193-39-5	Indeno(1,2,3-cd)pyrene	36000	
53-70-3	Dibenz(a,h)anthracene	33000	U
191-24-2	Benzo(g,h,i)perylene	31000	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

5 ORIGINAL (RED)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16422

Sample wt/vol: 1.2 (g/mL) G Lab File ID: T2599

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 50 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/16/90

GPC Cleanup: (Y/N) N pH: 8.1 Dilution Factor: 1.00

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNK POLYAROMATIC HYDROCARBON	19.92	13000	J
2.	UNK POLYAROMATIC HYDROCARBON	24.97	20000	J
3.	UNK POLYAROMATIC HYDROCARBON	27.21	20000	J
4.	UNK POLYAROMATIC HYDROCARBON	28.76	20000	J
5.	UNK POLYAROMATIC HYDROCARBON	28.96	17000	J
6.	UNK POLYAROMATIC HYDROCARBON	30.91	10000	J
7.	UNKNOWN SILOXANE	32.89	6700	J
8.	UNK POLYAROMATIC HYDROCARBON	35.41	17000	J
9.	UNK POLYAROMATIC HYDROCARBON	36.12	50000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6

La. Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16423

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2594

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 51 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 0.98

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	40000	U
111-44-4	bis(2-Chloroethyl)ether	40000	U
95-57-8	2-Chlorophenol	40000	U
541-73-1	1,3-Dichlorobenzene	40000	U
106-46-7	1,4-Dichlorobenzene	40000	U
100-51-6	Benzyl alcohol	40000	U
95-50-1	1,2-Dichlorobenzene	40000	U
95-48-7	2-Methylphenol	40000	U
108-60-1	bis(2-Chloroisopropyl)ether	40000	U
106-44-5	4-Methylphenol	40000	U
621-64-7	N-Nitroso-di-n-propylamine	40000	U
67-72-1	Hexachloroethane	40000	U
98-95-3	Nitrobenzene	40000	U
78-59-1	Isophorone	40000	U
88-75-5	2-Nitrophenol	40000	U
105-67-9	2,4-Dimethylphenol	40000	U
65-85-0	Benzoic Acid	190000	U
111-91-1	bis(2-Chloroethoxy)methane	40000	U
120-83-2	2,4-Dichlorophenol	40000	U
120-82-1	1,2,4-Trichlorobenzene	40000	U
91-20-3	Naphthalene	22000	J
106-47-8	4-Chloroaniline	40000	U
87-68-3	Hexachlorobutadiene	40000	U
59-50-7	4-Chloro-3-methylphenol	40000	U
91-57-6	2-Methylnaphthalene	40000	U
77-47-4	Hexachlorocyclopentadiene	40000	U
88-06-2	2,4,6-Trichlorophenol	40000	U
95-95-4	2,4,5-Trichlorophenol	190000	U
91-58-7	2-Chloronaphthalene	40000	U
88-74-4	2-Nitroaniline	190000	U
131-11-3	Dimethylphthalate	40000	U
208-96-8	Acenaphthylene	13000	J
606-20-2	2,6-Dinitrotoluene	40000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

6 ORIGINAL (Red)

La. Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16423

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2594

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 51 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 0.98

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	190000	U
83-32-9	Acenaphthene	40000	U
51-28-5	2,4-Dinitrophenol	190000	U
100-02-7	4-Nitrophenol	190000	U
132-64-9	Dibenzofuran	16000	J
121-14-2	2,4-Dinitrotoluene	40000	U
84-66-2	Diethylphthalate	40000	U
7005-72-3	4-Chlorophenyl-phenylether	40000	U
86-73-7	Fluorene	29000	J
100-01-6	4-Nitroaniline	190000	U
534-52-1	4,6-Dinitro-2-methylphenol	190000	U
86-30-6	N-nitrosodiphenylamine (1)	40000	U
101-55-3	4-Bromophenyl-phenylether	40000	U
118-74-1	Hexachlorobenzene	40000	U
87-86-5	Pentachlorophenol	190000	U
85-01-8	Phenanthrene	100000	
120-12-7	Anthracene	21000	J
84-74-2	Di-n-butylphthalate	40000	U
206-44-0	Fluoranthene	120000	
129-00-0	Pyrene	77000	X
85-68-7	Butylbenzylphthalate	40000	U
91-94-1	3,3'-Dichlorobenzidine	79000	U
56-55-3	Benzo(a)anthracene	51000	
218-01-9	Chrysene	71000	
117-81-7	bis(2-Ethylhexyl)phthalate	40000	U
117-84-0	Di-n-octyl phthalate	40000	U
205-99-2	Benzo(b)fluoranthene	57000	
207-08-9	Benzo(k)fluoranthene	55000	
50-32-8	Benzo(a)pyrene	50000	
193-39-5	Indeno(1,2,3-cd)pyrene	44000	
53-70-3	Dibenz(a,h)anthracene	40000	U
191-24-2	Benzo(g,h,i)perylene	38000	J

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

6 ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16423

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2594

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 51 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 7.8 Dilution Factor: 0.98

Number TICs found: 8

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	11.70	4000	J
2.	UNKNOWN	23.94	16000	J
3.	UNK POLYAROMATIC HYDROCARBON	25.16	20000	J
4.	UNKNOWN KETONE	25.86	12000	J
5.	UNK POLYAROMATIC HYDROCARBON	28.96	16000	J
6.	UNK POLYAROMATIC HYDROCARBON	32.96	8000	J
7.	UNKNOWN	34.37	24000	J
8.	UNK POLYAROMATIC HYDROCARBON	36.46	40000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16424

Sample wt/vol: 30.3 (g/mL) G Lab File ID: T2633

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 5 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	720	U
111-44-4	bis(2-Chloroethyl)ether	720	U
95-57-8	2-Chlorophenol	720	U
541-73-1	1,3-Dichlorobenzene	720	U
106-46-7	1,4-Dichlorobenzene	720	U
100-51-6	Benzyl alcohol	720	U
95-50-1	1,2-Dichlorobenzene	720	U
95-48-7	2-Methylphenol	720	U
108-60-1	bis(2-Chloroisopropyl)ether	720	U
106-44-5	4-Methylphenol	720	U
621-64-7	N-Nitroso-di-n-propylamine	720	U
67-72-1	Hexachloroethane	720	U
98-95-3	Nitrobenzene	720	U
78-59-1	Isophorone	720	U
88-75-5	2-Nitrophenol	720	U
105-67-9	2,4-Dimethylphenol	720	U
65-85-0	Benzoic Acid	3500	U
111-91-1	bis(2-Chloroethoxy)methane	720	U
120-83-2	2,4-Dichlorophenol	720	U
120-82-1	1,2,4-Trichlorobenzene	720	U
91-20-3	Naphthalene	1200	
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	720	U
59-50-7	4-Chloro-3-methylphenol	720	U
91-57-6	2-Methylnaphthalene	230	J
77-47-4	Hexachlorocyclopentadiene	720	U
88-06-2	2,4,6-Trichlorophenol	720	U
95-95-4	2,4,5-Trichlorophenol	3500	U
91-58-7	2-Chloronaphthalene	720	U
88-74-4	2-Nitroaniline	3500	U
131-11-3	Dimethylphthalate	720	U
208-96-8	Acenaphthylene	230	J
606-20-2	2,6-Dinitrotoluene	720	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7 ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16424

Sample wt/vol: 30.3 (g/mL) G Lab File ID: T2633

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 5 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3500	U
83-32-9	Acenaphthene	720	U
51-28-5	2,4-Dinitrophenol	3500	U
100-02-7	4-Nitrophenol	3500	U
132-64-9	Dibenzofuran	220	J
121-14-2	2,4-Dinitrotoluene	720	U
84-66-2	Diethylphthalate	720	U
7005-72-3	4-Chlorophenyl-phenylether	720	U
86-73-7	Fluorene	720	U
100-01-6	4-Nitroaniline	3500	U
534-52-1	4,6-Dinitro-2-methylphenol	3500	U
86-30-6	N-nitrosodiphenylamine (1)	720	U
101-55-3	4-Bromophenyl-phenylether	720	U
118-74-1	Hexachlorobenzene	720	U
87-86-5	Pentachlorophenol	3500	U
85-01-8	Phenanthrene	800	
120-12-7	Anthracene	720	U
84-74-2	Di-n-butylphthalate	720	U
206-44-0	Fluoranthene	1800	
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	720	U
91-94-1	3,3'-Dichlorobenzidine	1400	U
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1700	
117-81-7	bis(2-Ethylhexyl)phthalate	720	U
117-84-0	Di-n-octyl phthalate	720	U
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	1500	
50-32-8	Benzo(a)pyrene	1200	
193-39-5	Indeno(1,2,3-cd)pyrene	1300	
53-70-3	Dibenz(a,h)anthracene	720	U
191-24-2	Benzo(g,h,i)perylene	780	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16424

Sample wt/vol: 30.3 (g/mL) G Lab File ID: T2633

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 5 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.25	5400	J
2.	UNKNOWN	5.62	730	J
3.	UNKNOWN	6.22	290	J
4.	UNKNOWN	7.13	590	J
5.	UNKNOWN KETONE	7.55	730	J
6.	UNKNOWN KETONE	8.47	730	J
7.	UNKNOWN	9.75	4200	J
8. 74367-33-2	PROPANOIC ACID, 2-METHYL-, 2	15.70	440	J
9.	UNKNOWN	34.02	1700	J
10.	UNK POLYAROMATIC HYDROCARBON	35.97	1500	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK66

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK66

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2630

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/16/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	bis(2-Chloroisopropyl)ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic Acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK66

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK66

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2630

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/16/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octyl phthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK66

L: Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK66

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2630

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/16/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 0.50

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	5.60	520	J
74367-34-3	PROPANOIC ACID, 2-METHYL-3-HYDRO	16.05	190	J
	UNKNOWN	34.02	620	J

JZB

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK65 ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2554 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK65

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2642

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	660	U
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	660	U
541-73-1	1,3-Dichlorobenzene	660	U
106-46-7	1,4-Dichlorobenzene	660	U
100-51-6	Benzyl alcohol	660	U
95-50-1	1,2-Dichlorobenzene	660	U
95-48-7	2-Methylphenol	660	U
108-60-1	bis(2-Chloroisopropyl)ether	660	U
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-di-n-propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
65-85-0	Benzoic Acid	3200	U
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
120-82-1	1,2,4-Trichlorobenzene	660	U
91-20-3	Naphthalene	660	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
59-50-7	4-Chloro-3-methylphenol	660	U
91-57-6	2-Methylnaphthalene	660	U
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	3200	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	3200	U
131-11-3	Dimethylphthalate	660	U
208-96-8	Acenaphthylene	660	U
606-20-2	2,6-Dinitrotoluene	660	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK65 ORIGINAL (Red)

La. Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2554 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK65

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2642

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3200	U
83-32-9	Acenaphthene	660	U
51-28-5	2,4-Dinitrophenol	3200	U
100-02-7	4-Nitrophenol	3200	U
132-64-9	Dibenzofuran	660	U
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	660	U
7005-72-3	4-Chlorophenyl-phenylether	660	U
86-73-7	Fluorene	660	U
100-01-6	4-Nitroaniline	3200	U
534-52-1	4,6-Dinitro-2-methylphenol	3200	U
86-30-6	N-nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
87-86-5	Pentachlorophenol	3200	U
85-01-8	Phenanthrene	660	U
120-12-7	Anthracene	660	U
84-74-2	Di-n-butylphthalate	660	U
206-44-0	Fluoranthene	660	U
129-00-0	Pyrene	660	U
85-68-7	Butylbenzylphthalate	660	U
91-94-1	3,3'-Dichlorobenzidine	1300	U
56-55-3	Benzo(a)anthracene	660	U
218-01-9	Chrysene	660	U
117-81-7	bis(2-Ethylhexyl)phthalate	660	U
117-84-0	Di-n-octyl phthalate	660	U
205-99-2	Benzo(b)fluoranthene	660	U
207-08-9	Benzo(k)fluoranthene	660	U
50-32-8	Benzo(a)pyrene	660	U
193-39-5	Indeno(1,2,3-cd)pyrene	660	U
53-70-3	Dibenz(a,h)anthracene	660	U
191-24-2	Benzo(g,h,i)perylene	660	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ORIGINAL
SBLK65 (Red)

La. Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2554 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK65

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2642

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 1.0

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.15	530	J
2.	UNKNOWN	5.50	530	J
3. 930-68-7	2-CYCLOHEXEN-1-ONE	7.15	130	J
4.	UNKNOWN KETONE	7.45	470	J
5.	UNKNOWN	9.72	130	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK82

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK82

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2590

Level: (low/med) MED Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	20000	U
111-44-4	bis(2-Chloroethyl)ether	20000	U
95-57-8	2-Chlorophenol	20000	U
541-73-1	1,3-Dichlorobenzene	20000	U
106-46-7	1,4-Dichlorobenzene	20000	U
100-51-6	Benzyl alcohol	20000	U
95-50-1	1,2-Dichlorobenzene	20000	U
95-48-7	2-Methylphenol	20000	U
108-60-1	bis(2-Chloroisopropyl)ether	20000	U
106-44-5	4-Methylphenol	20000	U
621-64-7	N-Nitroso-di-n-propylamine	20000	U
67-72-1	Hexachloroethane	20000	U
98-95-3	Nitrobenzene	20000	U
78-59-1	Isophorone	20000	U
88-75-5	2-Nitrophenol	20000	U
105-67-9	2,4-Dimethylphenol	20000	U
65-85-0	Benzoic Acid	96000	U
111-91-1	bis(2-Chloroethoxy)methane	20000	U
120-83-2	2,4-Dichlorophenol	20000	U
120-82-1	1,2,4-Trichlorobenzene	20000	U
91-20-3	Naphthalene	20000	U
106-47-8	4-Chloroaniline	20000	U
87-68-3	Hexachlorobutadiene	20000	U
59-50-7	4-Chloro-3-methylphenol	20000	U
91-57-6	2-Methylnaphthalene	20000	U
77-47-4	Hexachlorocyclopentadiene	20000	U
88-06-2	2,4,6-Trichlorophenol	20000	U
95-95-4	2,4,5-Trichlorophenol	96000	U
91-58-7	2-Chloronaphthalene	20000	U
88-74-4	2-Nitroaniline	96000	U
131-11-3	Dimethylphthalate	20000	U
208-96-8	Acenaphthylene	20000	U
606-20-2	2,6-Dinitrotoluene	20000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK82

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK82

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2590

Level: (low/med) MED Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	96000	U
83-32-9	Acenaphthene	20000	U
51-28-5	2,4-Dinitrophenol	96000	U
100-02-7	4-Nitrophenol	96000	U
132-64-9	Dibenzofuran	20000	U
121-14-2	2,4-Dinitrotoluene	20000	U
84-66-2	Diethylphthalate	20000	U
7005-72-3	4-Chlorophenyl-phenylether	20000	U
86-73-7	Fluorene	20000	U
100-01-6	4-Nitroaniline	96000	U
534-52-1	4,6-Dinitro-2-methylphenol	96000	U
86-30-6	N-nitrosodiphenylamine (1)	20000	U
101-55-3	4-Bromophenyl-phenylether	20000	U
118-74-1	Hexachlorobenzene	20000	U
87-86-5	Pentachlorophenol	96000	U
85-01-8	Phenanthrene	20000	U
120-12-7	Anthracene	20000	U
84-74-2	Di-n-butylphthalate	20000	U
206-44-0	Fluoranthene	20000	U
129-00-0	Pyrene	20000	U
85-68-7	Butylbenzylphthalate	20000	U
91-94-1	3,3'-Dichlorobenzidine	40000	U
56-55-3	Benzo(a)anthracene	20000	U
218-01-9	Chrysene	20000	U
117-81-7	bis(2-Ethylhexyl)phthalate	20000	U
117-84-0	Di-n-octyl phthalate	20000	U
205-99-2	Benzo(b)fluoranthene	20000	U
207-08-9	Benzo(k)fluoranthene	20000	U
50-32-8	Benzo(a)pyrene	20000	U
193-39-5	Indeno(1,2,3-cd)pyrene	20000	U
53-70-3	Dibenz(a,h)anthracene	20000	U
191-24-2	Benzo(g,h,i)perylene	20000	U

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK82

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK82

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2590

Level: (low/med) MED Date Received: _____

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	11.70	4000	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1MS

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419MS

Sample wt/vol: 1.1 (g/mL) G Lab File ID: T2592

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	26000	U
111-44-4	bis(2-Chloroethyl)ether	26000	U
95-57-8	2-Chlorophenol	26000	U
541-73-1	1,3-Dichlorobenzene	26000	U
106-46-7	1,4-Dichlorobenzene	26000	U
100-51-6	Benzyl alcohol	26000	U
95-50-1	1,2-Dichlorobenzene	26000	U
95-48-7	2-Methylphenol	26000	U
108-60-1	bis(2-Chloroisopropyl)ether	26000	U
106-44-5	4-Methylphenol	26000	U
621-64-7	N-Nitroso-di-n-propylamine	26000	U
67-72-1	Hexachloroethane	26000	U
98-95-3	Nitrobenzene	26000	U
78-59-1	Isophorone	26000	U
88-75-5	2-Nitrophenol	26000	U
105-67-9	2,4-Dimethylphenol	26000	U
65-85-0	Benzoic Acid	130000	U
111-91-1	bis(2-Chloroethoxy)methane	26000	U
120-83-2	2,4-Dichlorophenol	26000	U
120-82-1	1,2,4-Trichlorobenzene	26000	U
91-20-3	Naphthalene	26000	U
106-47-8	4-Chloroaniline	26000	U
87-68-3	Hexachlorobutadiene	26000	U
59-50-7	4-Chloro-3-methylphenol	26000	U
91-57-6	2-Methylnaphthalene	26000	U
77-47-4	Hexachlorocyclopentadiene	26000	U
88-06-2	2,4,6-Trichlorophenol	26000	U
95-95-4	2,4,5-Trichlorophenol	130000	U
91-58-7	2-Chloronaphthalene	26000	U
88-74-4	2-Nitroaniline	130000	U
131-11-3	Dimethylphthalate	26000	U
208-96-8	Acenaphthylene	26000	U
606-20-2	2,6-Dinitrotoluene	26000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1MS

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419MS

Sample wt/vol: 1.1 (g/mL) G Lab File ID: T2592

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	130000	U
83-32-9	Acenaphthene	26000	U
51-28-5	2,4-Dinitrophenol	130000	U
100-02-7	4-Nitrophenol	130000	U
132-64-9	Dibenzofuran	26000	U
121-14-2	2,4-Dinitrotoluene	26000	U
84-66-2	Diethylphthalate	26000	U
7005-72-3	4-Chlorophenyl-phenylether	26000	U
86-73-7	Fluorene	26000	U
100-01-6	4-Nitroaniline	130000	U
534-52-1	4,6-Dinitro-2-methylphenol	130000	U
86-30-6	N-nitrosodiphenylamine (1)	26000	U
101-55-3	4-Bromophenyl-phenylether	26000	U
118-74-1	Hexachlorobenzene	26000	U
87-86-5	Pentachlorophenol	130000	U
85-01-8	Phenanthrene	26000	U
120-12-7	Anthracene	26000	U
84-74-2	Di-n-butylphthalate	26000	U
206-44-0	Fluoranthene	26000	U
129-00-0	Pyrene	26000	U
85-68-7	Butylbenzylphthalate	26000	U
91-94-1	3,3'-Dichlorobenzidine	52000	U
56-55-3	Benzo(a)anthracene	26000	U
218-01-9	Chrysene	26000	U
117-81-7	bis(2-Ethylhexyl)phthalate	26000	U
117-84-0	Di-n-octyl phthalate	26000	U
205-99-2	Benzo(b)fluoranthene	26000	U
207-08-9	Benzo(k)fluoranthene	26000	U
50-32-8	Benzo(a)pyrene	26000	U
193-39-5	Indeno(1,2,3-cd)pyrene	26000	U
53-70-3	Dibenz(a,h)anthracene	26000	U
191-24-2	Benzo(g,h,i)perylene	26000	U

(1) - Cannot be separated from Diphenylamine

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1MSD

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419MSD

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2593

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.98

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	29000	U
111-44-4	bis(2-Chloroethyl)ether	29000	U
95-57-8	2-Chlorophenol	29000	U
541-73-1	1,3-Dichlorobenzene	29000	U
106-46-7	1,4-Dichlorobenzene	29000	U
100-51-6	Benzyl alcohol	29000	U
95-50-1	1,2-Dichlorobenzene	29000	U
95-48-7	2-Methylphenol	29000	U
108-60-1	bis(2-Chloroisopropyl)ether	29000	U
106-44-5	4-Methylphenol	29000	U
621-64-7	N-Nitroso-di-n-propylamine	29000	U
67-72-1	Hexachloroethane	29000	U
98-95-3	Nitrobenzene	29000	U
78-59-1	Isophorone	29000	U
88-75-5	2-Nitrophenol	29000	U
105-67-9	2,4-Dimethylphenol	29000	U
65-85-0	Benzoic Acid	140000	U
111-91-1	bis(2-Chloroethoxy)methane	29000	U
120-83-2	2,4-Dichlorophenol	29000	U
120-82-1	1,2,4-Trichlorobenzene	29000	U
91-20-3	Naphthalene	29000	U
106-47-8	4-Chloroaniline	29000	U
87-68-3	Hexachlorobutadiene	29000	U
59-50-7	4-Chloro-3-methylphenol	29000	U
91-57-6	2-Methylnaphthalene	29000	U
77-47-4	Hexachlorocyclopentadiene	29000	U
88-06-2	2,4,6-Trichlorophenol	29000	U
95-95-4	2,4,5-Trichlorophenol	140000	U
91-58-7	2-Chloronaphthalene	29000	U
88-74-4	2-Nitroaniline	140000	U
131-11-3	Dimethylphthalate	29000	U
208-96-8	Acenaphthylene	29000	U
606-20-2	2,6-Dinitrotoluene	29000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1MSD

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419MSD

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2593

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.98

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	140000	U
83-32-9	Acenaphthene	29000	U
51-28-5	2,4-Dinitrophenol	140000	U
100-02-7	4-Nitrophenol	140000	U
132-64-9	Dibenzofuran	29000	U
121-14-2	2,4-Dinitrotoluene	29000	U
84-66-2	Diethylphthalate	29000	U
7005-72-3	4-Chlorophenyl-phenylether	29000	U
86-73-7	Fluorene	29000	U
100-01-6	4-Nitroaniline	140000	U
534-52-1	4,6-Dinitro-2-methylphenol	140000	U
86-30-6	N-nitrosodiphenylamine (1)	29000	U
101-55-3	4-Bromophenyl-phenylether	29000	U
118-74-1	Hexachlorobenzene	29000	U
87-86-5	Pentachlorophenol	140000	U
85-01-8	Phenanthrene	29000	U
120-12-7	Anthracene	29000	U
84-74-2	Di-n-butylphthalate	29000	U
206-44-0	Fluoranthene	29000	U
129-00-0	Pyrene	29000	U
85-68-7	Butylbenzylphthalate	29000	U
91-94-1	3,3'-Dichlorobenzidine	58000	U
56-55-3	Benzo(a)anthracene	29000	U
218-01-9	Chrysene	29000	U
117-81-7	bis(2-Ethylhexyl)phthalate	29000	U
117-84-0	Di-n-octyl phthalate	29000	U
205-99-2	Benzo(b)fluoranthene	29000	U
207-08-9	Benzo(k)fluoranthene	29000	U
50-32-8	Benzo(a)pyrene	29000	U
193-39-5	Indeno(1,2,3-cd)pyrene	29000	U
53-70-3	Dibenz(a,h)anthracene	29000	U
191-24-2	Benzo(g,h,i)perylene	29000	U

(1) - Cannot be separated from Diphenylamine