EPA Region 5 Records Ctr.
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CERCLA

Analytical Results

Illinois Environmental
Protection Agency

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: _____

SUBJECT: Review of Data
Received for Review on January 11, 2000

FROM: Stephen L. Ostrodka, Chief (SRT-4J)
Superfund Technical Support Section

for Steve Ostrodka
Richard L Byrnes
1/28/00

TO: Data User: IEPA

We have reviewed the data for the following case:

Site name: Insta Foam Products

Case number: 27626 SDG Number: EDAM6

Number and Type of Samples: 12 water & soil samples

Sample Numbers: EDAM6-EDAM9, EDAN0, EDAN1, EDAP0-EDAP5

Laboratory: SWOK Hrs. for Review: 17.5 hrs + 1.5 wpr

Following are our findings:
the data are acceptable and usable with the qualifications described in the attached narrative.
Richard L Byrnes

RECEIVED
FEB 07 2000
IEPA-BOL-FSRS

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

Case Number : 27626
Site Name: Insta Foam Products

SDG Number: EDAM6
Laboratory: SWOK

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Six water (EDAP0-EDAP5) and six soil (EDAM6-EDAM9, EDAN0, EDAN1) were collected on 11/29-30/99. The lab received the samples on 11/30/99 TO 12/01/99. Sample EDAP0 was analyzed for the VOA analytes only. The remaining samples were analyzed for the list of VOA, SVOA and Pest/PCB analytes. All samples were analyzed according to CLP SOW OLMO4.2 5/99.

Prepared By: Steffanie Tobin (Lockheed/ESAT)
Date: January 14, 2000

Case Number : 27626
Site Name: Insta Foam Products

SDG Number: EDAM6
Laboratory: SWOK

HOLDING TIME

No problems were found for this qualification.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found for this qualification.

3. CALIBRATION

The following volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

4-Methyl-2-pentanone, 2-Hexanone, 1,1,2,2-Tetrachloroethane
EDAM6, EDAM6MS, EDAM6MSD, EDAM7, EDAM9, EDAN1, VBLK4, VHBLK1

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

2-Hexanone, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene
EDAM8, EDAM8MS, EDAM8MSD, EDAN0, EDAP0, EDAP1, EDAP1MS, EDAP1MSD, EDAP2, EDAP3, EDAP4, EDAP5, VBLK1, VBLK2, VBLK3

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Dichlorodifluoromethane, Methylcyclohexane, 1,2-Dichloropropane
EDAM8, EDAN0, VBLK1

Chloromethane
EDAM8MS, EDAM8MSD, VBLK3

2-Butanone, 4-Methyl-2-pentanone, 2-Hexanone, 1,2-Dibromo-3-chloropropane
EDAM8MS, EDAM8MSD, EDAP0, EDAP1, EDAP1MS, EDAP1MSD, EDAP2, EDAP3, EDAP4, EDAP5, VBLK2, VBLK3

The following semivolatile samples are associated with an initial calibration with relative response factors (RRFs) outside primary criteria. Hits are flagged "J" and non-detects are qualified "UJ".

4-Chloroaniline
EDAM6, EDAM6MS, EDAM7, EDAM8, EDAM8MS, EDAM8MSD, EDAM9, EDAN0, EDAN1, SBLK1, SBLK3

The following semivolatile samples are associated with an initial calibration percent relative standard

deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Benzaldehyde
EDAM6, EDAM6MS, EDAM7, EDAM8, EDAM8MS, EDAM8MSD, EDAM9, EDAN0, EDAN1, SBLK1, SBLK3

2,4-Dinitrophenol
EDAM6, EDAM6MS, EDAM7, EDAM9, EDAN0, EDAN1, SBLK1

Atrazine
EDAM8, EDAM8MS, EDAM8MSD, SBLK3

The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has relative response factors (RRFs) outside primary criteria. Hits are flagged "J" and non-detects are qualified "UJ".

4-Chloroaniline
EDAM6DL, EDAM6MSD, EDAM7DL, EDAN0DL

Caprolactam
EDAM8DL, SBLK4

The following semivolatile samples are associated with a continuing calibration whose corresponding init calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Benzaldehyde
EDAM6DL, EDAM6MSD, EDAM7DL, EDAM8DL, EDAN0DL, EDAP1, EDAP1MS, EDAP1MSD, EDAP2, EDAP2DL, EDAP3, EDAP4, EDAP4DL, EDAP5, SBLK2, SBLK4

4-Chloroaniline, Atrazine
EDAP1, EDAP1MS, EDAP1MSD, EDAP2, EDAP2DL, EDAP3, EDAP4, EDAP4DL, EDAP5, SBLK2

2,4-Dinitrophenol
EDAM6DL, EDAM6MSD, EDAM7DL, EDAN0DL

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

4-Chloroaniline
EDAP1, EDAP1MS, EDAP1MSD, EDAP2, EDAP2DL, EDAP3, EDAP4, EDAP4DL, EDAP5, SBLK2

Caprolactam
EDAM6DL, EDAM6MSD, EDAM7DL, EDAM8DL, EDAN0DL, SBLK4

Hexachlorocyclopentadiene, Di-n-octylphthalate, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene
EDAM8DL, SBLK4

2,4-Dinitrophenol, 4-Nitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol
bis(2-Ethylhexyl)phthalate
EDAM6DL, EDAM6MSD, EDAM7DL, EDAN0DL

4-Nitroaniline
EDAP1, EDAP1MS, EDAP1MSD, EDAP2, EDAP3, EDAP4, EDAP5, SBLK2

Atrazine
EDAM6DL, EDAM6MSD, EDAM7DL, EDAN0DL, EDAP1, EDAP1MS, EDAP1MSD, EDAP2, EDAP2DL, EDAP3, EDAP4, EDAP4DL, EDAP5, SBLK2

4. METHOD BLANKS

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

EDAM9
2-Hexanone

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Di-n-butylphthalate
EDAP1, EDAP1MS, EDAP1MSD, EDAP2, EDAP4, EDAP4DL

bis(2-Ethylhexyl)phthalate
EDAM6DL, EDAN0DL, EDAN1, EDAP1, EDAP1MSD, EDAP3, EDAP4, EDAP4DL

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have system monitoring compound recoveries above the upper limit of the criteria window. Hits are qualified "J" and non-detects are not flagged.

EDAM8MS, EDAM8MSD

The following semivolatile samples have two or more acid surrogate recoveries below the lower limit of the criteria window and greater than 10%. Hits and non-detects are not qualified due to sample dilution.

EDAN0DL

Case Number : 27626
Site Name: Insta Foam Products

SDG Number: EDAM6
Laboratory: SWOK

The following pesticide samples have surrogate percent recoveries which outside the QC limit. Hits and non-detects are qualified below.

EDAM6MSD

The following pesticide samples have surrogate percent recoveries which outside the QC limit. Hits and non-detects are not flagged due to sample dilution.

EDAM6DL, EDAM7DL, EDAM8DL, EDAM9DL, EDAN0DL, EDAN1DL

The following pesticide samples have surrogate percent recoveries which outside the QC limit. Hits are qualified "J" and non-detects are not qualified.

EDAP2

The following undiluted pesticide samples have surrogate percent recoveries of less than 10%. Hits are qualified "J" and non-detects are qualified "R".

EDAM6MS

The following pesticide samples have surrogate percent recoveries outside the QC limit, but greater than 10%. Hits are qualified "J" and non-detects are qualified "UJ".

EDAM6, EDAM6MSD, EDAM7, EDAM8

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The relative percent difference (RPD) between the following volatile matrix spike and matrix spike duplicate recoveries is outside criteria. Hits are qualified "J" and non-detects are qualified "UJ" for the unspike sample.

EDAM6MS, EDAM6MSD
Trichloroethene, Chlorobenzene

EDAM8MS, EDAM8MSD
Benzene

EDAP1MS, EDAP1MSD
1,1-Dichloroethene , Benzene, Toluene

The following volatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits are qualified "J" and non-detects are not qualified for the unspike sample.

EDAM8MS, EDAP1MS, EDAP1MSD
Trichloroethene

Case Number : 27626
Site Name: Insta Foam Products

SDG Number: EDAM6
Laboratory: SWOK

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria. Hits are qualified "J" and non-detects are qualified "UJ" for the unspike sample.

EDAM6MS, EDAM6MSD
Acenaphthene, Pyrene

EDAP1MS, EDAP1MSD
2-Chlorophenol, Acenaphthene, Pyrene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits are qualified "J" and non-detects are not qualified for the unspike sample.

EDAM6MS
2,4-Dinitrotoluene

EDAM6MSD
4-Nitrophenol, 2,4-Dinitrotoluene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits and non-detects are qualified above for the unspike sample.

EDAM6MSD
Acenaphthene, Pyrene

The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Hits are qualified "J" and non-detects are qualified "UJ" for the unspike sample.

EDAM6MS, EDAM6MSD
Heptachlor, Aldrin, 4,4'-DDT

The relative percent difference (RPD) between the following pesticide matrix spike and matrix spike duplicate recoveries is outside criteria. Hits and non-detects are qualified below for the unspike sample.

EDAM6MS, EDAM6MSD
Endrin

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits are qualified "J" and non-detects are qualified "UJ" for the unspike sample.

EDAM6MS
Heptachlor

EDAP1MSD

gamma-BHC (Lindane)

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery less than 10%. Hits are qualified "J" and non-detects are qualified "R" for the unspike sample.

EDAM6MS
Endrin

7. FIELD BLANK AND FIELD DUPLICATE

None of the samples in this data set are field duplicates. Samples EDAP0, EDAP3 and EDAP5 are the field blanks. EDAP0 contains 4 VOA TCL, 2 VOA TIC, Pest/PCB. EDAP3 contains 2 VOA TIC, 13 SVOA TCL, 30 SVOA TIC, 4 Pest/PCB. EDAP5 contains 1 VOA TIC, 1 SVOA TIC.

8. INTERNAL STANDARDS

The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

EDAM6MS
Dichlorodifluoromethane , Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethene , 1,1,2-Trichloro-1,2,2-trifluoroethane, Acetone , Carbon Disulfide, Methyl Acetate, Methylene Chloride, trans-1,2-Dichloroethene, tert-Butyl Methyl Ether , 1,1-Dichloroethane , cis-1,2-Dichloroethene, 2-Butanone, Chloroform, 1,1,1-Trichloroethane, Cyclohexane, Carbon Tetrachloride, Benzene, 1,2-Dichloroethane, Trichloroethene, Methylcyclohexane , 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, Xylenes (total), Styrene, Bromoform, Isopropylbenzene , 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene , 1,2-Dichlorobenzene , 1,2-Dibromo-3-chloropropane , 1,2,4-Trichlorobenzene

EDAM8MSD
4-Methyl-2-pentanone, Toluene, Tetrachloroethene, 2-Hexanone, 1,2-Dibromoethane , Chlorobenzene, Ethylbenzene, Xylenes (total), Styrene, Isopropylbenzene , 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene , 1,2-Dichlorobenzene , 1,2-Dibromo-3-chloropropane , 1,2,4-Trichlorobenzene

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms, it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

Case Number : 27626
Site Name: Insta Foam Products

SDG Number: EDAM6
Laboratory: SWOK

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EDAM6
Carbon Disulfide, Methylene Chloride , Benzene, Ethylbenzene

EDAM6MS, EDAM6MSD, EDAM8MS, EDAM8MSD, EDAN0
Methylene Chloride

EDAM7
Carbon Disulfide, Methylene Chloride , 2-Butanone

EDAM8
Methylene Chloride , Ethylbenzene

EDAN1
Methylene Chloride , Xylenes (total)

EDAP0
Methylene Chloride , Trichloroethene, Tetrachloroethene

EDAP1MS
Trichlorofluoromethane

VBLK3
Acetone

VBLK4
Bromomethane, 2-Hexanone

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EDAM6
Benzaldehyde, 1,1'-Biphenyl , Acenaphthylene, Diethylphthalate, Di-n-butylphthalate

EDAM6DL
Phenol, 2-Methylphenol, 4-Methylphenol, 2,4-Dimethylphenol, Naphthalene, 2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthene, Dibenzofuran, Fluorene, Carbazole, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene

EDAM6MS
Benzaldehyde, Acetophenone , 2,4-Dimethylphenol, 1,1'-Biphenyl, Acenaphthylene, Diethylphthalate, Di-n-butylphthalate

EDAM6MSD
Di-n-butylphthalate

EDAM7
Benzaldehyde, 1,1'-Biphenyl , Acenaphthylene, Di-n-butylphthalate, Dibenz(a,h)anthracene

EDAM7DL
Phenol, 2-Methylphenol, 2,4-Dimethylphenol, Naphthalene, 2-Methylnaphthalene, 1,1'-Biphenyl , Acenaphthylene, Acenaphthene, Dibenzofuran, Fluorene, Carbazole, Di-n-butylphthalate, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EDAM8
Naphthalene, Acenaphthene, Dibenzofuran, Anthracene, Fluoranthene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EDAM8DL
Naphthalene, Acenaphthene, Dibenzofuran, Fluorene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EDAM8MS
Dibenzofuran, Anthracene, Fluoranthene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EDAM8MSD
Dibenzofuran, Anthracene, Fluoranthene, Benzo(a)anthracene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EDAM9
Benzaldehyde, Phenol, 4-Methylphenol, Naphthalene, 1,1'-Biphenyl , Dibenzofuran, Diethylphthalate, Fluorene, Anthracene, Carbazole, Di-n-butylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EDAN0DL
Phenol, 4-Methylphenol, Naphthalene, 1,1'-Biphenyl, Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, Di-n-butylphthalate, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

EDAN1
Benzaldehyde, Acetophenone , Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, Anthracene, Carbazole, Di-n-butylphthalate, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene,

Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

EDAP1MS
Acenaphthylene

EDAP1MSD
Acenaphthylene, Butylbenzylphthalate

EDAP2
Naphthalene, Acenaphthene, Dibenzofuran, Fluorene, Phenanthrene, Carbazole, Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene

EDAP2DL
Naphthalene, 2-Methylnaphthalene, Acenaphthene, Dibenzofuran, Fluorene, Phenanthrene, Carbazole, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene

EDAP3
Naphthalene, Acenaphthene, Fluorene, Phenanthrene, Carbazole, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene

EDAP4
Phenol, Acenaphthene, Fluorene, Fluoranthene, Pyrene

SBLK2
Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate

SBLK1
bis(2-Ethylhexyl)phthalate

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EDAM6
gamma-BHC (Lindane), Methoxychlor, alpha-Chlordane

EDAM6DL
Heptachlor epoxide, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Endrin aldehyde

EDAM6MS
Heptachlor epoxide, Endosulfan II, Methoxychlor, Endrin ketone, alpha-Chlordane

EDAM6MSD
delta-BHC, Endosulfan II, Methoxychlor, alpha-Chlordane

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EDAM7
Heptachlor epoxide, Dieldrin, Endosulfan II, Methoxychlor

EDAM7DL
Heptachlor epoxide, Dieldrin, Endosulfan sulfate, 4,4'-DDT, Endrin aldehyde, alpha-Chlordane

EDAM8
alpha-BHC, gamma-BHC (Lindane), Aldrin, Endosulfan I, 4,4'-DDD, Endosulfan sulfate, Endrin aldehyde, alpha-Chlordane

EDAM9
gamma-BHC (Lindane), Heptachlor epoxide, 4,4'-DDE, Endrin~~, 4,4'-DDD,~~ Methoxychlor, Endrin aldehyde, gamma-Chlordane

KB
1/20/99

EDAM9DL
Endrin aldehyde

EDAN0
Dieldrin, Endrin, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT

EDAN0DL
4,4'-DDE, 4,4'-DDT

EDAN1
Heptachlor, Aldrin, 4,4'-DDE, Endosulfan sulfate, gamma-Chlordane

EDAP1MS
Endrin ketone, Endrin aldehyde

EDAP2
delta-BHC, Aldrin

EDAP3
delta-BHC

EDAP4
Endosulfan I, 4,4'-DDE

PBLKSG, PBLKWU
Heptachlor

The following pesticide samples have analytes for which the percent difference between column results exceeds primary criteria. Hits are qualified "J".

EDAM6

beta-BHC, delta-BHC, gamma-BHC (Lindane), Aldrin, Heptachlor epoxide, Endosulfan I, Dieldrin, Endosulfan II, 4,4'-DDD, Methoxychlor, Endrin ketone, Endrin aldehyde, alpha-Chlordane

EDAM6DL
Heptachlor epoxide, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, Endrin aldehyde, alpha-Chlordane

EDAM6MS
beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide, Endosulfan I, Dieldrin, Endrin, Endosulfan II, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, alpha-Chlordane

EDAM6MSD
beta-BHC, delta-BHC, gamma-BHC (Lindane), Aldrin, Heptachlor epoxide, Endosulfan I, Dieldrin, Endrin, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, Methoxychlor, alpha-Chlordane, gamma-Chlordane

EDAM7
delta-BHC, gamma-BHC (Lindane), Heptachlor epoxide, Endosulfan I, Dieldrin, Endrin, 4,4'-DDD, Methoxychlor, alpha-Chlordane

EDAM7DL
Heptachlor epoxide, Dieldrin, Endosulfan sulfate, 4,4'-DDT, Endrin aldehyde, alpha-Chlordane

EDAM8
alpha-BHC, beta-BHC, gamma-BHC (Lindane), Aldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin ketone, Endrin aldehyde, alpha-Chlordane

EDAM9
beta-BHC, delta-BHC, gamma-BHC (Lindane), Aldrin, Heptachlor epoxide, Endrin, Methoxychlor, Endrin aldehyde, gamma-Chlordane

EDAM9DL
Endrin aldehyde

EDAN0
alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Dieldrin, Endrin, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Endrin ketone, alpha-Chlordane, gamma-Chlordane

EDAN0DL
4,4'-DDT

EDAN1
beta-BHC, Heptachlor, Aldrin, 4,4'-DDE, Endrin, Endosulfan sulfate, gamma-Chlordane

EDAP2
delta-BHC, Aldrin, Endosulfan sulfate, Endrin ketone

EDAP3
delta-BHC, Endosulfan sulfate, Methoxychlor, Endrin ketone

EDAP4
Endosulfan I

PBLKSG
Heptachlor

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

12. ADDITIONAL INFORMATION

For the SVOA fraction the following samples have analytes which were quantitated outside the calibration range:

EDAM6: Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl) phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene.

EDAM7: Phenanthrene, Fluoranthene

EDAM8: 2-Methylnaphthalene

EDAN0: Naphthalene, 2-Methylnaphthalene, Phenanthrene, Anthracene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(a)pyrene.

EDAP2: Caprolactam

EDAP4: Caprolactam

For the Pest/PCB fraction the following samples have analytes which were quantitated outside the calibration range:

EDAM6: 4,4'-DDE, Endrin Aldehyde

EDAM7: delta-BHC, 4,4'-DDE, Endrin Aldehyde

EDAP2: Endosulfan sulfate

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Laboratory: SWOK

For the analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration.

Prepared By: Steffanie Tobin (Lockheed/ESAT)
Date: January 14, 2000

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present)
H	Sample result is estimated and biased high.
L	Sample result is estimated and biased low.

Volatile Analysis Data - EDAM9
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
75-43-4	METHANE,DICHLOROFLUORO-	3.13	7.000	JN
	UNKNOWN	14.04	35.000	J
	UNKNOWN	16.13	11.000	J
	UNKNOWN	16.76	4.000	J

FILE NAME: EDAM6.SDG DATE: 01/11/100 TIME: 11:47 CADRE99 PAGE: 1

Volatile Analysis Data - EDAN1
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	CYCLOTETRASILOXANE	14.04	36.000	J
	UNKNOWN	16.77	3.000	J
	2-PHENYL-1,2-BIS(TRIMETHYLSILYLOXY)PROPA	18.16	24.000	J
569-41-5	NAPHTHALENE,1,8-DIMETHYL-	21.12	7.000	JN

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Volatile Analysis Data - EDAM7
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
593-70-4	METHANE,CHLOROFLUORO-	1.55	23.000	JN
75-43-4	METHANE,DICHLOROFLUORO-	3.14	380.000	JN
1066-40-6	SILANOL,TRIMETHYL-	7.76	11.000	JN
556-67-2	CYCLOTETRASILOXANE,OCTAMETHYL-	14.04	22.000	JN
	UNKNOWN	16.13	11.000	J
	UNKNOWN	18.15	19.000	J

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Volatile Analysis Data - EDAM6
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
593-70-4	METHANE,CHLOROFLUORO-	1.55	77.000	JN
75-43-4	METHANE,DICHLOROFLUORO-	3.14	600.000	JN
556-67-2	CYCLOTETRASILOXANE,OCTAMETHYL-	14.03	47.000	JN

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Volatile Analysis Data - EDAN0
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
13466-78-9	3-CARENE	15.23	6900.000	JN
	UNKNOWNALKYLBENZENE	15.95	1900.000	J
	UNKNOWNALKYLBENZENE	17.28	2000.000	J
90-12-0	NAPHTHALENE,1-METHYL-	19.47	2700.000	JN

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Volatile Analysis Data - EDAM8
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	9.44	11000.000	J
	UNKNOWN	10.56	1100.000	J
	UNKNOWN	10.73	5200.000	J
	UNKNOWN	13.90	6900.000	J
	UNKNOWNHYDROCARBON	14.47	4400.000	J
103-65-1	BENZENE,PROPYL-	14.60	2800.000	JN
	UNKNOWN	15.01	2800.000	J
	UNKNOWN	15.95	9600.000	J
	UNKNOWN	16.12	7800.000	J
	UNKNOWNALKYLBENZENE	16.36	7200.000	J
	UNKNOWNALKYLBENZENE	16.47	6100.000	J
	UNKNOWNALKYLBENZENE	16.77	15000.000	J
	UNKNOWNALKYLBENZENE	17.27	23000.000	J
91-57-6	NAPHTHALENE,2-METHYL-	19.45	14000.000	JN
90-12-0	NAPHTHALENE,1-METHYL-	19.76	5300.000	JN

Volatile Analysis Data - EDAP0
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
71-23-8	1-PROPANOL	8.03	17.000	JN
	UNKNOWN	16.61	23.000	J

Volatile Analysis Data - EDAP1
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	16.60	23.000	J

Volatile Analysis Data - EDAP2
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	16.60	11.000	J

Volatile Analysis Data - EDAP3
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	15.42	6.000	J
	UNKNOWN	16.60	10.000	J

Volatile Analysis Data - EDAP4
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
593-70-4	METHANE,CHLOROFLUORO-	2.19	7.000	JN
75-43-4	METHANE,DICHLOROFLUORO-	4.32	110.000	JN
	UNKNOWN	16.59	13.000	J

Volatile Analysis Data - EDAP5
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	16.59	12.000	J

Semivolatile Analysis Data - SBLK2
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	3.75	3.000	J
	UNKNOWN	4.90	2.000	J
	UNKNOWN	5.32	7.000	J

Semivolatile Analysis Data - EDAP1
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	14.27	3.000	J
	UNKNOWN	17.68	3.000	J

Semivolatile Analysis Data - EDAP4
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
541-05-9	CYCLOTRISILOXANE,HEXAMETHYL-	3.71	7.000	JN
	UNKNOWN	4.99	4.000	J
	UNKNOWN	5.06	40.000	J
	UNKNOWN	5.14	4.000	J
	UNKNOWNORGANICACID	5.50	3.000	J
	UNKNOWN	6.61	5.000	J
124-07-2	OCTANOICACID	8.14	5.000	JN
	UNKNOWN	8.76	6.000	J
	UNKNOWN	9.96	6.000	J
	UNKNOWN	9.99	4.000	J
	UNKNOWN	10.17	18.000	J
	UNKNOWN	11.64	7.000	J
134-62-3	DIETHYLTOLUAMIDE	12.48	3.000	JN
	UNKNOWN	12.83	8.000	J
	UNKNOWN	12.88	4.000	J
20324-34-9	2,5,8,11-TETRAOXATETRADECAN-13-OL,4,7,1	13.89	3.000	JN
115-96-8	TRI(2-CHLOROETHYL)PHOSPHATE	13.96	14.000	JN
	UNKNOWN	14.02	6.000	J
	UNKNOWN	14.18	3.000	J
	UNKNOWN	14.36	74.000	J
	UNKNOWN	14.43	13.000	J
	UNKNOWN	14.50	3.000	J
	UNKNOWN	14.73	4.000	J
	UNKNOWN	14.90	3.000	J
57-10-3	HEXADECANOICACID	15.27	9.000	JN
	UNKNOWN	16.36	5.000	J
57-11-4	OCTADECANOICACID	16.62	6.000	JN
	UNKNOWN	17.68	24.000	J
13674-87-8	2-PROPANOL,1,3-DICHLORO-,PHOSPHATE(3:	17.93	5.000	JN
	UNKNOWN	20.40	3.000	J

Semivolatile Analysis Data - EDAP5
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	16.03	3.000	J

Semivolatile Analysis Data - EDAP3
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

AS BER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	5.23	6.000	J
103-65-1	BENZENE,PROPYL-	5.32	5.000	JN
104-53-0	BENZENEPROPANAL	6.70	5.000	JN
934-80-5	BENZENE,4-ETHYL-1,2-DIMETHYL-	7.10	6.000	JN
934-80-5	BENZENE,4-ETHYL-1,2-DIMETHYL-	7.50	8.000	JN
99-87-6	BENZENE,1-METHYL-4-(1-METHYLETHYL)-	7.99	10.000	JN
700-12-9	BENZENE,PENTAMETHYL-	8.52	5.000	JN
700-12-9	BENZENE,PENTAMETHYL-	9.52	4.000	JN
1195-14-8	BENZO[B]THIOPHENE,-METHYL-	9.67	7.000	JN
90-12-0	NAPHTHALENE,1-METHYL-	9.93	30.000	JN
	UNKNOWN	10.61	5.000	J
581-42-0	NAPHTHALENE,2,6-DIMETHYL-	10.89	18.000	JN
581-40-8	NAPHTHALENE,2,3-DIMETHYL-	11.04	25.000	JN
582-16-1	NAPHTHALENE,2,7-DIMETHYL-	11.08	11.000	JN
573-98-8	NAPHTHALENE,1,2-DIMETHYL-	11.25	8.000	JN
4794-05-2	BENZENE,2,5-CYCLOHEXADIEN-1-YL-	11.29	5.000	JN
1127-76-0	NAPHTHALENE,1-ETHYL-	11.42	8.000	JN
2027-17-0	NAPHTHALENE,2-(1-METHYLETHYL)-	11.83	9.000	JN
2245-38-7	NAPHTHALENE,1,6,7-TRIMETHYL-	11.90	5.000	JN
	5-METHYL-1-PHENYLHEXA-1,3,4-TRIENE	11.96	5.000	JN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	12.05	11.000	JN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	12.09	8.000	JN
	UNKNOWNKETONE	12.16	7.000	J
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	12.25	14.000	JN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	12.40	5.000	JN
	UNKNOWN	12.54	6.000	J
2489-86-3	NAPHTHALENE,1-(2-PROPENYL)-	12.76	9.000	JN
7320-53-8	DIBENZOFURAN,4-METHYL-	12.93	5.000	JN
	UNKNOWN	17.65	5.000	J
13674-87-8	2-PROPANOL,1,3-DICHLORO-,PHOSPHATE(3:	17.91	5.000	JN

Semivolatile Analysis Data - EDAP2
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
21400-25-9	1-PROPENE,1,1,2-TRICHLORO-	5.24	10.000	JN
103-65-1	BENZENE,PROPYL-	5.32	6.000	JN
1758-88-9	BENZENE,2-ETHYL-1,4-DIMETHYL-	7.09	8.000	JN
95-93-2	BENZENE,1,2,4,5-TETRAMETHYL-	7.51	17.000	JN
2039-89-6	BENZENE,2-ETHENYL-1,4-DIMETHYL-	7.83	7.000	JN
95-93-2	BENZENE,1,2,4,5-TETRAMETHYL-	7.99	13.000	JN
	UNKNOWNALKYLBENZENE	8.52	7.000	J
	UNKNOWNALKYLBENZENE	9.51	5.000	J
	UNKNOWN	9.66	13.000	J
90-12-0	NAPHTHALENE,1-METHYL-	9.93	34.000	JN
	UNKNOWN	10.08	5.000	J
	UNKNOWN	10.16	7.000	J
	UNKNOWN	10.53	5.000	J
1127-76-0	NAPHTHALENE,1-ETHYL-	10.82	6.000	JN
581-42-0	NAPHTHALENE,2,6-DIMETHYL-	10.88	22.000	JN
581-40-8	NAPHTHALENE,2,3-DIMETHYL-	11.05	32.000	JN
582-16-1	NAPHTHALENE,2,7-DIMETHYL-	11.08	14.000	JN
575-41-7	NAPHTHALENE,1,3-DIMETHYL-	11.25	8.000	JN
939-27-5	NAPHTHALENE,2-ETHYL-	11.41	11.000	JN
2027-17-0	NAPHTHALENE,2-(1-METHYLETHYL)-	11.84	10.000	JN
829-26-5	NAPHTHALENE,-TRIMETHYL-	11.89	7.000	JN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	11.95	7.000	JN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	12.09	12.000	JN
2245-38-7	NAPHTHALENE,1,6,7-TRIMETHYL-	12.26	20.000	JN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	12.40	7.000	JN
643-58-3	1,1'-BIPHENYL,-METHYL-	12.75	15.000	JN
	UNKNOWN	12.80	7.000	J
	UNKNOWN	12.92	11.000	J
	UNKNOWN	17.66	7.000	J
13674-87-8	2-PROPANOL,1,3-DICHLORO-,PHOSPHATE(3:	17.91	6.000	JN

Semivolatile Analysis Data - EDAP4DL
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
541-05-9	CYCLOTRISILOXANE,HEXAMETHYL-	3.62	11.000	DJN
	UNKNOWN	4.73	4.000	DJ
	UNKNOWN	4.95	41.000	BDJ
	UNKNOWN	5.14	7.000	DJ
	UNKNOWN	5.61	7.000	DJ
	UNKNOWN	6.49	6.000	DJ
541-02-6	CYCLOPENTASILOXANE,DECAMETHYL-	7.66	10.000	DJN
124-07-2	OCTANOICACID	7.98	5.000	DJN
	UNKNOWN	10.04	19.000	DJ
	UNKNOWN	12.69	5.000	DJ
	UNKNOWN	14.22	12.000	DJ
	UNKNOWN	17.52	29.000	DJ
13674-87-8	2-PROPANOL,1,3-DICHLORO-,PHOSPHATE(3:	17.79	6.000	DJN
	UNKNOWN	20.85	4.000	DJ

Semivolatile Analysis Data - EDAP2DL
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	3.62	6.000	DJ
	UNKNOWN	5.14	10.000	DJ
103-65-1	BENZENE,PROPYL-	5.22	6.000	DJN
	UNKNOWN	5.60	8.000	DJ
	UNKNOWN	6.62	11.000	DJ
95-93-2	BENZENE,1,2,4,5-TETRAMETHYL-	7.41	7.000	DJN
488-23-3	BENZENE,1,2,3,4-TETRAMETHYL-	7.88	13.000	DJN
	UNKNOWNALKYLBENZENE	8.41	6.000	DJ
700-12-9	BENZENE,PENTAMETHYL-	9.41	6.000	DJN
	UNKNOWN	9.55	9.000	DJ
90-12-0	NAPHTHALENE,1-METHYL-	9.82	43.000	DJN
	UNKNOWN	10.62	7.000	DJ
1127-76-0	NAPHTHALENE,1-ETHYL-	10.71	6.000	DJN
575-37-1	NAPHTHALENE,1,7-DIMETHYL-	10.77	23.000	DJN
581-40-8	NAPHTHALENE,2,3-DIMETHYL-	10.92	29.000	DJN
575-43-9	NAPHTHALENE,1,6-DIMETHYL-	10.97	21.000	DJN
581-40-8	NAPHTHALENE,2,3-DIMETHYL-	11.13	12.000	DJN
571-58-4	NAPHTHALENE,1,4-DIMETHYL-	11.30	10.000	DJN
2027-17-0	NAPHTHALENE,2-(1-METHYLETHYL)-	11.73	9.000	DJN
829-26-5	NAPHTHALENE,-TRIMETHYL-	11.78	6.000	DJN
2245-38-7	NAPHTHALENE,1,6,7-TRIMETHYL-	11.97	11.000	DJN
	UNKNOWN	12.04	8.000	DJ
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	12.13	15.000	DJN
829-26-5	NAPHTHALENE,2,3,6-TRIMETHYL-	12.28	9.000	DJN
	UNKNOWN	12.44	7.000	DJ
2489-86-3	NAPHTHALENE,-(-PROPENYL)-	12.64	10.000	DJN
	UNKNOWNPAH	12.81	7.000	DJ
	UNKNOWN	16.82	5.000	DJ
	UNKNOWN	17.51	8.000	DJ
13674-87-8	2-PROPANOL,1,3-DICHLORO-,PHOSPHATE(3:	17.78	6.000	DJN

Semivolatile Analysis Data - SBLK1
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
141-79-7	3-PENTEN-2-ONE,4-METHYL-	3.13	520.000	AJN
123-42-2	2-PENTANONE,4-HYDROXY-4-METHYL-	3.53	3100.000	AJN
	UNKNOWN	4.28	69.000	J
	UNKNOWN	4.60	410.000	J
	UNKNOWNHYDROCARBON	12.05	110.000	J
	UNKNOWNAMIDE	16.36	200.000	J
	UNKNOWN	16.95	94.000	J
	UNKNOWN	20.38	87.000	J
	UNKNOWN	20.65	68.000	J
	UNKNOWN	22.32	150.000	J
	UNKNOWN	23.78	100.000	J

Semivolatile Analysis Data - EDAM6
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	4.71	540.000	J
90-00-6	PHENOL,2-ETHYL-	7.25	460.000	JN
90-12-0	NAPHTHALENE,1-METHYL-	8.92	390.000	JN
2245-38-7	NAPHTHALENE,1,6,7-TRIMETHYL-	11.06	370.000	JN
115-96-8	TRI(2-CHLOROETHYL)PHOSPHATE	12.67	380.000	JN
132-65-0	DIBENZOTHIOPHENE	12.73	570.000	JN
6628-98-4	PYRENE,4,5-DIHYDRO-	13.44	350.000	JN
610-48-0	ANTHRACENE,1-METHYL-	13.76	430.000	JN
	UNKNOWNPAH	13.91	1100.000	J
243-17-4	11H-BENZO[B]FLUORENE	15.76	360.000	JN
	UNKNOWNPAH	18.29	910.000	J
	UNKNOWNPAH	18.53	450.000	J
207-08-9	BENZO[]FLUORANTHENE	18.88	1100.000	JN
	UNKNOWNPAH	19.03	400.000	J
192-97-2	BENZO[E]PYRENE	19.12	3400.000	JN
	UNKNOWNPAH	19.48	570.000	J
	UNKNOWNPAH	19.98	460.000	J
215-58-7	BENZO[B]TRIPHENYLENE	20.46	990.000	JN
215-58-7	BENZO[B]TRIPHENYLENE	20.73	660.000	JN
	UNKNOWNPAH	20.78	630.000	J
191-26-4	DIBENZO[DEF,MNO]CHRYSENE	21.08	1100.000	JN
192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	22.46	970.000	JN
	1,2:3,4-DIBENZPYRENE	22.57	820.000	JN
	1,2:4,5-DIBENZPYRENE	22.65	670.000	JN
191-07-1	CORONENE	23.21	1700.000	JN

Semivolatile Analysis Data - EDAM7
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	4.71	450.000	J
95-36-3	1,2,4-TRIMETHYLBENZENE	5.13	410.000	JN
	UNKNOWN	5.30	300.000	J
95-36-3	1,2,4-TRIMETHYLBENZENE	5.51	290.000	JN
874-35-1	1H-INDENE,2,3-DIHYDRO--METHYL-	7.12	350.000	JN
620-17-7	PHENOL,3-ETHYL-	7.25	470.000	JN
90-12-0	NAPHTHALENE,1-METHYL-	8.92	650.000	JN
581-42-0	NAPHTHALENE,2,6-DIMETHYL-	9.81	300.000	JN
581-42-0	NAPHTHALENE,2,6-DIMETHYL-	9.96	380.000	JN
2245-38-7	NAPHTHALENE,1,6,7-TRIMETHYL-	10.93	280.000	JN
829-26-5	NAPHTHALENE,2,3,6-TRIMETHYL-	11.07	440.000	JN
829-26-5	NAPHTHALENE,2,3,6-TRIMETHYL-	11.21	300.000	JN
	UNKNOWN	12.35	290.000	J
	UNKNOWN	12.55	370.000	J
115-96-8	TRI(2-CHLOROETHYL)PHOSPHATE	12.66	270.000	JN
832-64-4	PHENANTHRENE,4-METHYL-	13.77	250.000	JN
	UNKNOWNPAH	13.90	540.000	J
	UNKNOWNAMIDE	15.31	250.000	J
238-84-6	11H-BENZO[A]FLUORENE	15.75	330.000	JN
13674-87-8	2-PROPANOL,1,3-DICHLORO-,PHOSPHATE(3:	16.31	340.000	JN
	UNKNOWNAMIDE	16.36	1600.000	BJ
	UNKNOWN	18.98	490.000	J
192-97-2	BENZO[E]PYRENE	19.12	790.000	JN
	DIBENZO[A,I]PHENAZINE	19.78	680.000	JN
53584-60-4	28-NOR-17.ALPHA.(H)-HOPANE	19.97	1200.000	JN
	UNKNOWNPAH	20.35	1700.000	J
191-26-4	DIBENZO[DEF,MNO]CHRYSENE	21.07	560.000	JN

Semivolatile Analysis Data - EDAM9
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	3.62	460.000	J
	UNKNOWN	4.71	540.000	J
	UNKNOWN	5.29	250.000	J
	UNKNOWN	5.82	560.000	J
	UNKNOWNHYDROCARBON	8.17	420.000	J
90-12-0	NAPHTHALENE,1-METHYL-	8.93	460.000	JN
1127-76-0	NAPHTHALENE,1-ETHYL-	9.72	280.000	JN
581-42-0	NAPHTHALENE,2,6-DIMETHYL-	9.82	330.000	JN
581-40-8	NAPHTHALENE,2,3-DIMETHYL-	9.95	400.000	JN
872-05-9	1-DECENE	10.30	860.000	JN
2131-41-1	NAPHTHALENE,1,4,5-TRIMETHYL-	10.89	300.000	JN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	10.93	310.000	JN
	UNKNOWN	13.11	600.000	J
16587-52-3	DIBENZOTHIOPHENE,3-METHYL-	13.45	280.000	JN
3674-66-6	PHENANTHRENE,2,5-DIMETHYL-	14.64	310.000	JN
10544-50-0	SULFUR,MOL.(S8)	14.79	390.000	JN
	UNKNOWNAMIDE	15.31	950.000	J
2381-21-7	PYRENE,1-METHYL-	15.75	340.000	JN
13674-87-8	2-PROPANOL,1,3-DICHLORO-,PHOSPHATE(3:	16.33	7500.000	JN
13674-87-8	2-PROPANOL,1,3-DICHLORO-,PHOSPHATE(3:	16.58	590.000	JN
3351-32-4	2-METHYLCHRYSENE	17.78	390.000	JN
	UNKNOWNPAH	18.99	390.000	J
205-99-2	BENZ[E]ACEPHENANTHRYLENE	19.11	460.000	JN
	UNKNOWN	19.98	310.000	J
	UNKNOWN	20.07	360.000	J
123-28-4	PROPANOICACID,3,3'-THIOBIS-,DIDODECYL	22.33	3600.000	JN

Semivolatile Analysis Data - EDAN0
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	3.32	630.000	J
	UNKNOWN	3.45	1100.000	J
	UNKNOWN	3.68	47000.000	J
2958-76-1	NAPHTHALENE,DECAHYDRO-2-METHYL-	6.65	620.000	JN
933-98-2	BENZENE,1-ETHYL-2,3-DIMETHYL-	6.69	580.000	JN
95-93-2	BENZENE,1,2,4,5-TETRAMETHYL-	6.74	1300.000	JN
2958-76-1	NAPHTHALENE,DECAHYDRO-2-METHYL-	6.85	570.000	JN
3333-13-9	BENZENE,1-METHYL-4-(2-PROPENYL)-	6.99	1100.000	JN
2039-89-6	BENZENE,2-ETHENYL-1,4-DIMETHYL-	7.12	1600.000	JN
4920-99-4	BENZENE,1-ETHYL-3-(1-METHYLETHYL)-	7.65	970.000	JN
54120-62-6	BENZENE,ETHYL-1,2,4-TRIMETHYL-	7.79	540.000	JN
	UNKNOWNALKYLBENZENE	7.89	540.000	J
	UNKNOWN	8.17	2400.000	J
	UNKNOWN	8.43	720.000	J
24949-42-6	6-TRIDECENE,7-METHYL-	8.51	860.000	JN
700-12-9	BENZENE,PENTAMETHYL-	8.58	2300.000	JN
90-12-0	NAPHTHALENE,1-METHYL-	8.94	2800.000	JN
16587-52-3	DIBENZOTHIOPHENE,3-METHYL-	13.46	550.000	JN
613-12-7	ANTHRACENE,2-METHYL-	13.78	520.000	JN
610-48-0	ANTHRACENE,-METHYL-	13.92	630.000	JN
3674-66-6	PHENANTHRENE,2,5-DIMETHYL-	14.65	600.000	JN
112-80-1	OLEICACID	15.05	500.000	JN
1705-85-7	CHRYSENE,6-METHYL-	17.79	710.000	JN
192-97-2	BENZO[E]PYRENE	19.12	2300.000	JN
53584-60-4	28-NOR-17.ALPHA.(H)-HOPANE	19.99	1300.000	JN
	UNKNOWN	21.08	1400.000	J

Semivolatile Analysis Data - EDAN1
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	3.09	290.000	J
	UNKNOWN	3.33	170.000	J
	UNKNOWN	3.40	210.000	J
	UNKNOWN	3.63	150.000	J
	UNKNOWN	4.41	530.000	J
	UNKNOWN	5.83	890.000	J
	UNKNOWN	12.55	140.000	J
57-10-3	HEXADECANOICACID	13.91	340.000	JN
	UNKNOWNORGANICACID	15.04	410.000	J
	UNKNOWN	15.10	400.000	J
	UNKNOWNAMIDE	15.32	510.000	J
	UNKNOWNPAH	15.75	180.000	J
	UNKNOWNPAH	15.86	180.000	J
	UNKNOWNPAH	16.28	220.000	J
	UNKNOWNAMIDE	16.37	4200.000	BJ
	UNKNOWN	16.55	190.000	J
	UNKNOWN	18.31	150.000	J
	UNKNOWNPAH	19.67	440.000	J
	UNKNOWN	19.86	240.000	J
	UNKNOWN	19.99	240.000	J
	UNKNOWN	20.08	220.000	J
	UNKNOWNPAH	20.77	660.000	J
	UNKNOWN	21.08	210.000	J
123-28-4	PROPANOICACID,3,3'-THIOBIS-,DIDODECYL	22.33	1300.000	JN
	UNKNOWN	22.42	130.000	J

Semivolatile Analysis Data - EDAM6DL
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWNPAH	13.87	2100.000	DJ
10544-50-0	SULFUR,MOL.(S8)	14.75	2500.000	DJN
835-06-3	PHENANTHRENE,-METHOXY-	15.06	2000.000	DJN
	UNKNOWN	15.28	1600.000	DJ
	UNKNOWNPAH	15.43	1700.000	DJ
2381-21-7	PYRENE,-METHYL-	15.55	2400.000	DJN
243-17-4	11H-BENZO[B]FLUORENE	15.72	5300.000	DJN
243-17-4	11H-BENZO[B]FLUORENE	15.82	4900.000	DJN
	UNKNOWN	15.90	2100.000	DJ
	UNKNOWN	16.28	2600.000	DJ
	UNKNOWN	16.54	1600.000	DJ
205-43-6	BENZO[B]NAPHTHO[1,2-D]THIOPHENE	16.70	2000.000	DJN
	UNKNOWNPAH	16.77	4500.000	DJ
	UNKNOWNPAH	16.98	1700.000	DJ
	UNKNOWNPAH	17.27	5400.000	DJ
	UNKNOWNPAH	17.42	1800.000	DJ
	UNKNOWNPAH	17.49	1700.000	DJ
	UNKNOWNPAH	17.74	1900.000	DJ
	UNKNOWN	17.80	2000.000	DJ
	UNKNOWN	17.89	2000.000	DJ
	UNKNOWN	17.95	1600.000	DJ
	UNKNOWN	17.97	1700.000	DJ
	UNKNOWNPAH	18.85	1700.000	DJ
192-97-2	BENZO[E]PYRENE	19.09	4200.000	DJN
	UNKNOWNPAH	20.45	1500.000	DJ
	UNKNOWNPAH	20.74	1800.000	DJ
	UNKNOWNPAH	21.04	3500.000	DJ
191-07-1	CORONENE	23.16	1500.000	DJN

Semivolatile Analysis Data - EDAM7DL
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	3.62	470.000	DJ
	UNKNOWN	4.40	420.000	DJ
	UNKNOWN	4.70	480.000	DJ
620-14-4	BENZENE,1-ETHYL-3-METHYL-	5.48	490.000	DJN
108-68-9	PHENOL,3,5-DIMETHYL-	7.23	630.000	DJN
90-12-0	NAPHTHALENE,1-METHYL-	8.90	820.000	DJN
575-37-1	NAPHTHALENE,1,7-DIMETHYL-	9.79	510.000	DJN
581-40-8	NAPHTHALENE,2,3-DIMETHYL-	9.93	570.000	DJN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	11.04	660.000	DJN
2245-38-7	NAPHTHALENE,1,6,7-TRIMETHYL-	11.18	430.000	DJN
490-65-3	NAPHTHALENE,1-METHYL-7-(1-METHYLETHYL)-	12.52	670.000	DJN
115-96-8	TRI(2-CHLOROETHYL)PHOSPHATE	12.63	490.000	DJN
	UNKNOWNPAH	13.87	670.000	DJ
3674-66-6	PHENANTHRENE,2,5-DIMETHYL-	14.61	490.000	DJN
243-17-4	11H-BENZO[B]FLUORENE	15.72	660.000	DJN
13674-87-8	2-PROPANOL,1,3-DICHLORO-,PHOSPHATE(3:	16.28	490.000	DJN
	UNKNOWNAMIDE	16.33	2300.000	BDJ
	UNKNOWN	18.27	930.000	DJ
	UNKNOWN	18.61	500.000	DJ
	UNKNOWN	18.95	550.000	DJ
192-97-2	BENZO[E]PYRENE	19.09	900.000	DJN
	UNKNOWN	19.64	610.000	DJ
	DIBENZO[A,I]PHENAZINE	19.74	540.000	DJN
	DIBENZO[A,I]PHENAZINE	19.79	800.000	DJN
	UNKNOWN	19.94	660.000	DJ

Semivolatile Analysis Data - EDANODL
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	3.31	2400.000	DJ
488-23-3	BENZENE,1,2,3,4-TETRAMETHYL-	6.71	830.000	DJN
2039-89-6	BENZENE,2-ETHENYL-1,4-DIMETHYL-	7.09	1200.000	DJN
	UNKNOWN	8.48	790.000	DJ
	UNKNOWN	8.53	1100.000	DJ
90-12-0	NAPHTHALENE,1-METHYL-	8.89	1900.000	DJN
	UNKNOWNHYDROCARBON	9.11	1200.000	DJ
939-27-5	NAPHTHALENE,2-ETHYL-	9.68	1200.000	DJN
581-42-0	NAPHTHALENE,2,6-DIMETHYL-	9.79	1300.000	DJN
581-40-8	NAPHTHALENE,2,3-DIMETHYL-	9.93	1400.000	DJN
571-61-9	NAPHTHALENE,1,5-DIMETHYL-	9.95	1000.000	DJN
581-40-8	NAPHTHALENE,2,3-DIMETHYL-	10.11	760.000	DJN
1127-76-0	NAPHTHALENE,1-ETHYL-	10.26	780.000	DJN
2027-17-0	NAPHTHALENE,2-(1-METHYLETHYL)-	10.67	880.000	DJN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	10.90	1200.000	DJN
829-26-5	NAPHTHALENE,2,3,6-TRIMETHYL-	11.06	1400.000	DJN
1430-97-3	9H-FLUORENE,2-METHYL-	12.32	890.000	DJN
	1,1'-BIPHENYL,3-CARBOXYACID	13.54	830.000	DJN
2531-84-2	PHENANTHRENE,2-METHYL-	13.73	1000.000	DJN
832-64-4	PHENANTHRENE,4-METHYL-	13.87	1300.000	DJN
3674-66-6	PHENANTHRENE,2,5-DIMETHYL-	14.60	1100.000	DJN
2381-21-7	PYRENE,1-METHYL-	15.72	1200.000	DJN
	UNKNOWNPAH	17.74	750.000	DJ
192-97-2	BENZO[E]PYRENE	19.08	1400.000	DJN
	UNKNOWN	19.62	1500.000	DJ
	UNKNOWN	19.95	820.000	DJ
	UNKNOWN	20.04	840.000	DJ
	UNKNOWN	20.31	750.000	DJ
	UNKNOWN	21.29	780.000	DJ

Semivolatile Analysis Data - SBLK4
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	3.54	2600.000	J
	UNKNOWN	4.63	2500.000	J
	UNKNOWN	5.02	2100.000	J
112-70-9	1-TRIDECANOL	13.00	4100.000	JN
	UNKNOWNAMIDE	15.14	4600.000	J
	UNKNOWNAMIDE	16.42	3300.000	J
	UNKNOWNAMIDE	16.52	6000.000	J
	UNKNOWNAMIDE	17.66	86000.000	J
	UNKNOWNAMIDE	17.77	4300.000	J
	UNKNOWN	23.65	2200.000	J
123-28-4	PROPANOICACID,3,3'-THIOBIS-,DIDODECYL	25.26	110000.000	JN

Semivolatile Analysis Data - EDAM8DL
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
[illegible]8-76-1	NAPHTHALENE,DECAHYDRO-2-METHYL-	7.25	40000.000	DJN
99-87-6	BENZENE,1-METHYL-4-(1-METHYLETHYL)-	7.77	90000.000	DJN
	UNKNOWN	9.29	58000.000	DJ
2613-76-5	1H-INDENE,2,3-DIHYDRO-1,1,3-TRIMETHYL-	9.44	60000.000	DJN
90-12-0	NAPHTHALENE,1-METHYL-	9.70	120000.000	DJN
575-43-9	NAPHTHALENE,1,6-DIMETHYL-	10.66	63000.000	DJN
581-40-8	NAPHTHALENE,2,3-DIMETHYL-	10.80	63000.000	DJN
582-16-1	NAPHTHALENE,2,7-DIMETHYL-	10.85	56000.000	DJN
829-26-5	NAPHTHALENE,2,3,6-TRIMETHYL-	12.03	53000.000	DJN
1730-37-6	9H-FLUORENE,1-METHYL-	13.33	36000.000	DJN
	UNKNOWN	13.41	110000.000	DJ
4612-63-9	9H-FLUORENE,2,3-DIMETHYL-	14.25	38000.000	DJN
613-12-7	ANTHRACENE,2-METHYL-	14.91	88000.000	DJN
613-12-7	ANTHRACENE,2-METHYL-	14.95	86000.000	DJN
832-69-9	PHENANTHRENE,1-METHYL-	15.11	77000.000	DJN
613-12-7	ANTHRACENE,2-METHYL-	15.14	79000.000	DJN
3674-69-9	PHENANTHRENE,4,5-DIMETHYL-	15.69	50000.000	DJN
1576-69-8	PHENANTHRENE,2,7-DIMETHYL-	15.76	110000.000	DJN
3674-66-6	PHENANTHRENE,2,5-DIMETHYL-	15.89	70000.000	DJN

Semivolatile Analysis Data - SBLK3
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
872-05-9	1-DECENE	8.47	26000.000	JN
	UNKNOWN	10.93	7500.000	J
	UNKNOWNAMIDE	13.52	7400.000	J
	UNKNOWNAMIDE	15.04	8300.000	J
	UNKNOWNAMIDE	15.17	16000.000	J
	UNKNOWNAMIDE	16.53	160000.000	J
	UNKNOWNAMIDE	16.68	6700.000	J
	UNKNOWN	17.79	3600.000	J
	UNKNOWN	24.07	200000.000	J

Semivolatile Analysis Data - EDAM8
Tentatively Identified Compounds

CASE NO: 27626 LABORATORY: SWL-TULSA
SDG NO: EDAM6

CAS NUMBER	COMPOUND NAME	RT	ESTIMATED CONCENTRATION	Q
	UNKNOWN	4.06	22000.000	J
90-12-0	NAPHTHALENE,1-METHYL-	6.56	19000.000	JN
1127-76-0	NAPHTHALENE,1-ETHYL-	7.63	42000.000	JN
581-42-0	NAPHTHALENE,2,6-DIMETHYL-	7.78	68000.000	JN
581-40-8	NAPHTHALENE,2,3-DIMETHYL-	7.98	95000.000	JN
582-16-1	NAPHTHALENE,2,7-DIMETHYL-	8.02	46000.000	JN
573-98-8	NAPHTHALENE,1,2-DIMETHYL-	8.42	20000.000	JN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	9.00	21000.000	JN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	9.33	30000.000	JN
2131-42-2	NAPHTHALENE,1,4,6-TRIMETHYL-	9.52	30000.000	JN
2245-38-7	NAPHTHALENE,1,6,7-TRIMETHYL-	9.55	44000.000	JN
	UNKNOWNPAH	10.10	23000.000	J
	UNKNOWNPAH	10.65	31000.000	J
529-05-5	AZULENE,7-ETHYL-1,4-DIMETHYL-	10.87	17000.000	JN
1730-37-6	9H-FLUORENE,1-METHYL-	11.26	27000.000	JN
4612-63-9	9H-FLUORENE,2,3-DIMETHYL-	12.37	17000.000	JN
16587-52-3	DIBENZOTHIOPHENE,3-METHYL-	12.71	19000.000	JN
613-12-7	ANTHRACENE,2-METHYL-	13.07	23000.000	JN
613-12-7	ANTHRACENE,2-METHYL-	13.13	32000.000	JN
1207-15-4	2,8-DIMETHYLDIBENZO(B,D)THIOPHENE	13.58	17000.000	JN
3674-69-9	PHENANTHRENE,4,5-DIMETHYL-	14.01	25000.000	JN
3674-66-6	PHENANTHRENE,2,5-DIMETHYL-	14.26	19000.000	JN
3674-66-6	PHENANTHRENE,2,5-DIMETHYL-	14.31	28000.000	JN
	UNKNOWNAMIDE	15.05	26000.000	BJ
3674-73-5	PHENANTHRENE,2,3,5-TRIMETHYL-	15.13	31000.000	JN
2498-77-3	BENZ[A]ANTHRACENE,1-METHYL-	18.24	27000.000	JN

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 6

Sample Number :	EDAM6		EDAM6MS		EDAM6MSD		EDAM7		EDAM8	
Sampling Location :	X102		X102		X102		X103		X104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999		11/29/1999		11/29/1999	
Time Sampled :	13:30		13:30		13:30		13:30		15:00	
%Moisture :	24		24		24		24		21	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	13		15	UJ	11	U	24		1500	UJ
Chloromethane	12	U	15	UJ	11	U	11	U	1500	U
Vinyl Chloride	12	U	15	UJ	11	U	11	U	1500	U
Bromomethane	12	U	15	UJ	11	U	11	U	1500	U
Chloroethane	12	U	15	UJ	11	U	11	U	1500	U
Trichlorofluoromethane	39		15	UJ	33		58		1500	U
1,1-Dichloroethene	12	U	75	J	57		11	U	1500	U
1,1,2-Trichloro-1,2,2-trifluoroethane	12	U	15	UJ	11	U	11	U	1500	U
Acetone	180		41	J	57		59		1800	
Carbon Disulfide	8	J	15	UJ	11	U	3	J	1500	U
Methyl Acetate	12	U	15	UJ	11	U	11	U	1500	U
Methylene Chloride	12	J	15	J	11	J	11	J	1200	J
trans-1,2-Dichloroethene	12	U	15	UJ	11	U	11	U	1500	U
Methyl tert-Butyl Ether	12	U	15	UJ	11	U	11	U	1500	U
1,1-Dichloroethane	12	U	15	UJ	11	U	11	U	1500	U
cis-1,2-Dichloroethene	12	U	15	UJ	11	U	11	U	1500	U
2-Butanone	12	U	15	UJ	11	U	6	J	1500	U
Chloroform	12	U	15	UJ	11	U	11	U	1500	U
1,1,1-Trichloroethane	12	U	15	UJ	11	U	11	U	1500	U
Cyclohexane	12	U	15	UJ	11	U	11	U	2800	
Carbon Tetrachloride	12	U	15	UJ	11	U	11	U	1500	U
Benzene	4	J	81	J	71		11	U	1500	UJ
1,2-Dichloroethane	12	U	15	UJ	11	U	11	U	1500	U
Trichloroethene	12	UJ	47	J	45		11	U	1500	U
Methylcyclohexane	12	U	15	UJ	11	U	11	U	1500	UJ
1,2-Dichloropropane	12	U	15	UJ	11	U	11	U	1500	UJ
Bromodichloromethane	12	U	15	UJ	11	U	11	U	1500	U
cis-1,3-Dichloropropene	12	U	15	UJ	11	U	11	U	1500	U
4-Methyl-2-pentanone	12	UJ	15	UJ	11	UJ	11	UJ	1500	U
Toluene	12	U	86	J	75		11	U	1500	U
trans-1,3-Dichloropropene	12	U	15	UJ	11	U	11	U	1500	U
1,1,2-Trichloroethane	12	U	15	UJ	11	U	11	U	1500	U
Tetrachloroethene	12	U	15	UJ	11	U	11	U	1500	U

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 6

Sample Number :	EDAM6		EDAM6MS		EDAM6MSD		EDAM7		EDAM8	
Sampling Location :	X102		X102		X102		X103		X104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999		11/29/1999		11/29/1999	
Time Sampled :	13:30		13:30		13:30		13:30		15:00	
%Moisture :	24		24		24		24		21	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	12	UJ	15	UJ	11	UJ	11	UJ	1500	UJ
Dibromochloromethane	12	U	15	UJ	11	U	11	U	1500	U
1,2-Dibromoethane	12	U	15	UJ	11	U	11	U	1500	U
Chlorobenzene	12	UJ	64	J	60		11	U	1500	U
Ethylbenzene	8	J	15	UJ	11	U	11	U	600	J
Xylenes (total)	30		15	UJ	11	U	11	U	1500	U
Styrene	12	U	15	UJ	11	U	11	U	1500	U
Bromoform	12	U	15	UJ	11	U	11	U	1500	U
Isopropylbenzene	12	U	15	UJ	11	U	11	U	2200	
1,1,2,2-Tetrachloroethane	12	UJ	15	UJ	11	UJ	11	UJ	1500	U
1,3-Dichlorobenzene	12	U	15	UJ	11	U	11	U	1500	U
1,4-Dichlorobenzene	12	U	15	UJ	11	U	11	U	1500	U
1,2-Dichlorobenzene	12	U	15	UJ	11	U	11	U	1500	U
1,2-Dibromo-3-chloropropane	12	U	15	UJ	11	U	11	U	1500	UJ
1,2,4-Trichlorobenzene	12	U	15	UJ	11	U	11	U	1500	UJ

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 6

Sample Number :	EDAM8MS		EDAM8MSD		EDAM9		EDAN0		EDAN1	
Sampling Location :	X104		X104		X105		X106		X107	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999					
Time Sampled :	15:00		15:00		15:30					
%Moisture :	21		21		21		47		15	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	1500	U	1500	U	10	U	2300	UJ	9	U
Chloromethane	1500	UJ	1500	UJ	10	U	2300	U	9	U
Vinyl Chloride	1500	U	1500	U	10	U	2300	U	9	U
Bromomethane	1500	U	1500	U	10	U	2300	U	9	U
Chloroethane	1500	U	1500	U	10	U	2300	U	9	U
Trichlorofluoromethane	1500	U	1500	U	10	U	2300	U	9	U
1,1-Dichloroethene	8000	J	7300	J	10	U	2300	U	9	U
1,1,2-Trichloro-1,2,2-trifluoroethane	1500	U	1500	U	10	U	2300	U	9	U
Acetone	1500	U	1500	U	10	U	2300	U	9	U
Carbon Disulfide	1500	U	1500	U	10	U	2300	U	9	U
Methyl Acetate	1500	U	1500	U	10	U	2300	U	9	U
Methylene Chloride	1400	J	1200	J	10	U	1800	J	9	J
trans-1,2-Dichloroethene	1500	U	1500	U	10	U	2300	U	9	U
Methyl tert-Butyl Ether	1500	U	1500	U	10	U	2300	U	9	U
1,1-Dichloroethane	1500	U	1500	U	10	U	2300	U	9	U
cis-1,2-Dichloroethene	1500	U	1500	U	10	U	2300	U	9	U
2-Butanone	1500	UJ	1500	UJ	10	U	2300	U	9	U
Chloroform	1500	U	1500	U	10	U	2300	U	9	U
1,1,1-Trichloroethane	1500	U	1500	U	10	U	2300	U	9	U
Cyclohexane	4300	J	2600	J	10	U	2300	U	9	U
Carbon Tetrachloride	1500	U	1500	U	10	U	2300	U	9	U
Benzene	11000	J	5800	J	10	U	2300	U	9	U
1,2-Dichloroethane	1500	U	1500	U	10	U	2300	U	9	U
Trichloroethene	11000	J	9200	J	10	U	2300	U	9	U
Methylcyclohexane	1500	U	1500	U	10	U	2300	UJ	9	U
1,2-Dichloropropane	1500	U	1500	U	10	U	2300	UJ	9	U
Bromodichloromethane	1500	U	1500	U	10	U	2300	U	9	U
cis-1,3-Dichloropropene	1500	U	1500	U	10	U	2300	U	9	U
4-Methyl-2-pentanone	1500	UJ	1500	UJ	10	UJ	2300	U	9	UJ
Toluene	11000	J	10000	J	10	U	2300	U	9	U
trans-1,3-Dichloropropene	1500	U	1500	U	10	U	2300	U	9	U
1,1,2-Trichloroethane	1500	U	1500	U	10	U	2300	U	9	U
Tetrachloroethene	1500	U	1500	UJ	10	U	2300	U	9	U

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 6

Sample Number :	EDAM8MS		EDAM8MSD		EDAM9		EDAN0		EDAN1	
Sampling Location :	X104		X104		X105		X106		X107	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999					
Time Sampled :	15:00		15:00		15:30					
%Moisture :	21		21		21		47		15	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	1500	UJ	1500	UJ	10	UJ	2300	UJ	9	UJ
Dibromochloromethane	1500	U	1500	U	10	U	2300	U	9	U
1,2-Dibromoethane	1500	U	1500	UJ	10	U	2300	U	9	U
Chlorobenzene	10000	J	9400	J	10	U	2300	U	9	U
Ethylbenzene	1500	U	1500	UJ	10	U	2300	U	9	U
Xylenes (total)	1500	U	1500	UJ	10	U	2300	U	4	J
Styrene	1500	U	1500	UJ	10	U	2300	U	9	U
Bromoform	1500	U	1500	U	10	U	2300	U	9	U
Isopropylbenzene	2700	J	2800	J	10	U	2300	U	9	U
1,1,2,2-Tetrachloroethane	1500	U	1500	UJ	10	UJ	2300	U	9	UJ
1,3-Dichlorobenzene	1500	U	1500	UJ	10	U	2300	U	9	U
1,4-Dichlorobenzene	1500	U	1500	UJ	10	U	2300	U	9	U
1,2-Dichlorobenzene	1500	U	1500	UJ	10	U	2300	U	9	U
1,2-Dibromo-3-chloropropane	1500	UJ	1500	UJ	10	U	2300	UJ	9	U
1,2,4-Trichlorobenzene	1500	UJ	1500	UJ	10	U	2300	UJ	9	U

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 6

Sample Number :	VHBLK1		VBLK1		VBLK3		VBLK4			
Sampling Location :										
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	U	1200	UJ	1200	U	10	U		
Chloromethane	10	U	1200	U	1200	UJ	10	U		
Vinyl Chloride	10	U	1200	U	1200	U	10	U		
Bromomethane	10	U	1200	U	1200	U	4	J		
Chloroethane	10	U	1200	U	1200	U	10	U		
Trichlorofluoromethane	10	U	1200	U	1200	U	10	U		
1,1-Dichloroethene	10	U	1200	U	1200	U	10	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	1200	U	1200	U	10	U		
Acetone	10	U	1200	U	840	J	10	U		
Carbon Disulfide	10	U	1200	U	1200	U	10	U		
Methyl Acetate	10	U	1200	U	1200	U	10	U		
Methylene Chloride	10	U	1200	U	1200	U	10	U		
trans-1,2-Dichloroethene	10	U	1200	U	1200	U	10	U		
Methyl tert-Butyl Ether	10	U	1200	U	1200	U	10	U		
1,1-Dichloroethane	10	U	1200	U	1200	U	10	U		
cis-1,2-Dichloroethene	10	U	1200	U	1200	U	10	U		
2-Butanone	10	U	1200	U	1200	UJ	10	U		
Chloroform	10	U	1200	U	1200	U	10	U		
1,1,1-Trichloroethane	10	U	1200	U	1200	U	10	U		
Cyclohexane	10	U	1200	U	1200	U	10	U		
Carbon Tetrachloride	10	U	1200	U	1200	U	10	U		
Benzene	10	U	1200	U	1200	U	10	U		
1,2-Dichloroethane	10	U	1200	U	1200	U	10	U		
Trichloroethene	10	U	1200	U	1200	U	10	U		
Methylcyclohexane	10	U	1200	UJ	1200	U	10	U		
1,2-Dichloropropane	10	U	1200	UJ	1200	U	10	U		
Bromodichloromethane	10	U	1200	U	1200	U	10	U		
cis-1,3-Dichloropropene	10	U	1200	U	1200	U	10	U		
4-Methyl-2-pentanone	10	UJ	1200	U	1200	UJ	10	UJ		
Toluene	10	U	1200	U	1200	U	10	U		
trans-1,3-Dichloropropene	10	U	1200	U	1200	U	10	U		
1,1,2-Trichloroethane	10	U	1200	U	1200	U	10	U		
Tetrachloroethene	10	U	1200	U	1200	U	10	U		

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS Number of Soil Samples : 6
Lab. : SWOK Number of Water Samples : 6
Reviewer : S. Tobin
Date : 01/18/00

Sample Number :	VHBLK1		VBLK1		VBLK3		VBLK4			
Sampling Location :										
Matrix :	Soil		Soil		Soil		Soil			
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	UJ	1200	UJ	1200	UJ	9	J		
Dibromochloromethane	10	U	1200	U	1200	U	10	U		
1,2-Dibromoethane	10	U	1200	U	1200	U	10	U		
Chlorobenzene	10	U	1200	U	1200	U	10	U		
Ethylbenzene	10	U	1200	U	1200	U	10	U		
Xylenes (total)	10	U	1200	U	1200	U	10	U		
Styrene	10	U	1200	U	1200	U	10	U		
Bromoform	10	U	1200	U	1200	U	10	U		
Isopropylbenzene	10	U	1200	U	1200	U	10	U		
1,1,2,2-Tetrachloroethane	10	UJ	1200	U	1200	U	10	UJ		
1,3-Dichlorobenzene	10	U	1200	U	1200	U	10	U		
1,4-Dichlorobenzene	10	U	1200	U	1200	U	10	U		
1,2-Dichlorobenzene	10	U	1200	U	1200	U	10	U		
1,2-Dibromo-3-chloropropane	10	U	1200	UJ	1200	UJ	10	U		
1,2,4-Trichlorobenzene	10	U	1200	UJ	1200	UJ	10	U		

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 6

Sample Number :	EDAP0		EDAP1		EDAP1MS		EDAP1MSD		EDAP2	
Sampling Location :	TB		G101		G101		G101		G102	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/30/1999		11/30/1999		11/30/1999		11/30/1999		11/30/1999	
Time Sampled :			11:30		11:30		11:30		12:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	U	10	U	10	U	10	U	10	U
Chloromethane	10	U	10	U	10	U	10	U	10	U
Vinyl Chloride	10	U	10	U	10	U	10	U	10	U
Bromomethane	10	U	10	U	10	U	10	U	10	U
Chloroethane	10	U	10	U	10	U	10	U	10	U
Trichlorofluoromethane	10	U	10	U	3	J	10	U	10	U
1,1-Dichloroethene	10	U	10	UJ	59		48		10	U
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	10	U	10	U	10	U
Acetone	21		13		10	U	10	U	10	U
Carbon Disulfide	10	U	10	U	10	U	10	U	10	U
Methyl Acetate	10	U	10	U	10	U	10	U	10	U
Methylene Chloride	2	J	10	U	10	U	10	U	10	U
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
Methyl tert-Butyl Ether	10	U	10	U	10	U	10	U	10	U
1,1-Dichloroethane	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U	10	U
2-Butanone	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Chloroform	10	U	10	U	10	U	10	U	10	U
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Cyclohexane	10	U	10	U	10	U	10	U	10	U
Carbon Tetrachloride	10	U	10	U	10	U	10	U	10	U
Benzene	10	U	10	UJ	61		53		10	U
1,2-Dichloroethane	10	U	10	U	10	U	10	U	10	U
Trichloroethene	5	J	10	U	67		73		10	U
Methylcyclohexane	10	U	10	U	10	U	10	U	10	U
1,2-Dichloropropane	10	U	10	U	10	U	10	U	10	U
Bromodichloromethane	10	U	10	U	10	U	10	U	10	U
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
4-Methyl-2-pentanone	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Toluene	10	U	10	UJ	57		49		10	U
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U	10	U
Tetrachloroethene	8	J	10	U	10	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 27626	SDG : EDAM6		
Site :	INSTA FOAM PRODUCTS	Number of Soil Samples :	6
Lab. :	SWOK	Number of Water Samples :	6
Reviewer :	S. Tobin		
Date :	01/18/00		

Sample Number :	EDAP0		EDAP1		EDAP1MS		EDAP1MSD		EDAP2	
Sampling Location :	TB		G101		G101		G101		G102	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/30/1999		11/30/1999		11/30/1999		11/30/1999		11/30/1999	
Time Sampled :			11:30		11:30		11:30		12:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
Dibromochloromethane	10	U	10	U	10	U	10	U	10	U
1,2-Dibromoethane	10	U	10	U	10	U	10	U	10	U
Chlorobenzene	10	U	10	U	58		51		10	U
Ethylbenzene	10	U	10	U	10	U	10	U	10	U
Xylenes (total)	10	U	10	U	10	U	10	U	10	U
Styrene	10	U	10	U	10	U	10	U	10	U
Bromoform	10	U	10	U	10	U	10	U	10	U
Isopropylbenzene	10	U	10	U	10	U	10	U	10	U
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U	10	U
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U	10	U
1,2-Dibromo-3-chloropropane	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ
1,2,4-Trichlorobenzene	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS Number of Soil Samples : 6
Lab. : SWOK Number of Water Samples : 6
Reviewer : S. Tobin
Date : 01/18/00

Sample Number :	EDAP3		EDAP4		EDAP5		VBLK2			
Sampling Location :	G103		G104		FB					
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	11/30/1999		11/29/1999		11/30/1999					
Time Sampled :	12:00		11:35		09:40					
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	10	U	10	U	10	U	10	U		
Chloromethane	10	U	10	U	10	U	10	U		
Vinyl Chloride	10	U	10	U	10	U	10	U		
Bromomethane	10	U	10	U	10	U	10	U		
Chloroethane	10	U	10	U	10	U	10	U		
Trichlorofluoromethane	10	U	10	U	10	U	10	U		
1,1-Dichloroethene	10	U	10	U	10	U	10	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	U	10	U	10	U		
Acetone	10	U	16		10	U	10	U		
Carbon Disulfide	10	U	10	U	10	U	10	U		
Methyl Acetate	10	U	10	U	10	U	10	U		
Methylene Chloride	10	U	10	U	10	U	10	U		
trans-1,2-Dichloroethene	10	U	10	U	10	U	10	U		
Methyl tert-Butyl Ether	10	U	10	U	10	U	10	U		
1,1-Dichloroethane	10	U	10	U	10	U	10	U		
cis-1,2-Dichloroethene	10	U	10	U	10	U	10	U		
2-Butanone	10	UJ	10	UJ	10	UJ	10	UJ		
Chloroform	10	U	10	U	10	U	10	U		
1,1,1-Trichloroethane	10	U	10	U	10	U	10	U		
Cyclohexane	10	U	10	U	10	U	10	U		
Carbon Tetrachloride	10	U	10	U	10	U	10	U		
Benzene	10	U	10	U	10	U	10	U		
1,2-Dichloroethane	10	U	10	U	10	U	10	U		
Trichloroethene	10	U	10	U	10	U	10	U		
Methylcyclohexane	10	U	10	U	10	U	10	U		
1,2-Dichloropropane	10	U	10	U	10	U	10	U		
Bromodichloromethane	10	U	10	U	10	U	10	U		
cis-1,3-Dichloropropene	10	U	10	U	10	U	10	U		
4-Methyl-2-pentanone	10	UJ	10	UJ	10	UJ	10	UJ		
Toluene	10	U	10	U	10	U	10	U		
trans-1,3-Dichloropropene	10	U	10	U	10	U	10	U		
1,1,2-Trichloroethane	10	U	10	U	10	U	10	U		
Tetrachloroethene	10	U	10	U	10	U	10	U		

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS Number of Soil Samples : 6
Lab. : SWOK Number of Water Samples : 6
Reviewer : S. Tobin
Date : 01/18/00

Sample Number :	EDAP3		EDAP4		EDAP5		VBLK2			
Sampling Location :	G103		G104		FB					
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :	11/30/1999		11/29/1999		11/30/1999					
Time Sampled :	12:00		11:35		09:40					
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2-Hexanone	10	UJ	10	UJ	10	UJ	10	UJ		
Dibromochloromethane	10	U	10	U	10	U	10	U		
1,2-Dibromoethane	10	U	10	U	10	U	10	U		
Chlorobenzene	10	U	10	U	10	U	10	U		
Ethylbenzene	10	U	10	U	10	U	10	U		
Xylenes (total)	10	U	10	U	10	U	10	U		
Styrene	10	U	10	U	10	U	10	U		
Bromoform	10	U	10	U	10	U	10	U		
Isopropylbenzene	10	U	10	U	10	U	10	U		
1,1,2,2-Tetrachloroethane	10	U	10	U	10	U	10	U		
1,3-Dichlorobenzene	10	U	10	U	10	U	10	U		
1,4-Dichlorobenzene	10	U	10	U	10	U	10	U		
1,2-Dichlorobenzene	10	U	10	U	10	U	10	U		
1,2-Dibromo-3-chloropropane	10	UJ	10	UJ	10	UJ	10	UJ		
1,2,4-Trichlorobenzene	10	UJ	10	UJ	10	UJ	10	UJ		

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 5

Sample Number :	EDAM6		EDAM6DL		EDAM6MS		EDAM6MSD		EDAM7	
Sampling Location :	X102		X102		X102		X102		X103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999		11/29/1999		11/29/1999	
Time Sampled :	13:30		13:30		13:30		13:30		13:30	
%Moisture :	24		24		24		24		24	
pH :	7.5		7.5		7.5		7.5		7.6	
Dilution Factor :	1.0		10.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1100	UJ	11000	UJ	1100	UJ	1100	UJ	1100	UJ
4-Nitrophenol	1100	U	11000	UJ	3100		3900	J	1100	U
Dibenzofuran	2100		2200	J	2500		3700		530	
2,4-Dinitrotoluene	430	U	4300	UJ	2300		3000	J	430	U
Diethylphthalate	30	J	4300	U	28	J	430	U	430	U
Fluorene	3000		3400	J	3700		5800		730	
4-Chlorophenyl-phenyl ether	430	U	4300	U	430	U	430	U	430	U
4-Nitroaniline	1100	U	11000	U	1100	U	1100	U	1100	U
4,6-Dinitro-2-methylphenol	1100	U	11000	UJ	1100	U	1100	UJ	1100	U
N-Nitrosodiphenylamine	430	U	4300	U	430	U	430	U	430	U
4-Bromophenyl-phenylether	430	U	4300	U	430	U	430	U	430	U
Hexachlorobenzene	430	U	4300	U	430	U	430	U	430	U
Atrazine	430	U	4300	UJ	430	U	430	UJ	430	U
Pentachlorophenol	1100	U	11000	U	3000		2800		1100	U
Phenanthrene	17000		22000		19000		25000		3700	
Anthracene	5800		5600		6800		9400		1100	
Carbazole	3100		3000	J	3900		5600		600	
Di-n-butylphthalate	83	J	4300	U	69	J	110	J	380	J
Fluoranthene	19000		22000		21000		29000		4200	
Pyrene	17000	J	17000		18000		26000		3100	
Butylbenzylphthalate	430	U	4300	U	430	U	430	U	430	U
3,3'-Dichlorobenzidine	430	U	4300	U	430	U	430	U	430	U
Benzo(a)anthracene	8000		7700		8900		14000		1600	
Chrysene	7000		7900		8400		13000		1700	
bis(2-Ethylhexyl)phthalate	4900		4300	UJ	1300		430	UJ	1300	
Di-n-octylphthalate	430	U	4300	U	430	U	430	U	430	U
Benzo(b)fluoranthene	7100		7400		9400		11000		1600	
Benzo(k)fluoranthene	4700		4200	J	4400		9100		970	
Benzo(a)pyrene	6900		7700		8500		13000		1300	
Indeno(1,2,3-cd)pyrene	4000		3900	J	4700		7100		810	
Dibenzo(a,h)anthracene	1400		1800	J	1900		2300		330	J
Benzo(g,h,i)perylene	3900		4400		4800		7300		850	

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS Number of Soil Samples : 6
Lab. : SWOK Number of Water Samples : 5
Reviewer : S. Tobin
Date : 01/18/00

Sample Number :	EDAM6		EDAM6DL		EDAM6MS		EDAM6MSD		EDAM7	
Sampling Location :	X102		X102		X102		X102		X103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999		11/29/1999		11/29/1999	
Time Sampled :	13:30		13:30		13:30		13:30		13:30	
%Moisture :	24		24		24		24		24	
pH :	7.5		7.5		7.5		7.5		7.6	
Dilution Factor :	1.0		10.0		1.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	270	J	4300	UJ	220	J	430	UJ	370	J
Phenol	670		490	J	3200		3200		600	
bis-(2-Chloroethyl) ether	430	U	4300	U	430	U	430	U	430	U
2-Chlorophenol	430	U	4300	U	2600		2400		430	U
2-Methylphenol	780		530	J	590		900		590	
2,2'-oxybis(1-Chloropropane)	430	U	4300	U	430	U	430	U	430	U
Acetophenone	430	U	4300	U	95	J	430	U	430	U
4-Methylphenol	1800		1300	J	1300		2000		1400	
N-Nitroso-di-n-propylamine	430	U	4300	U	2200		2500		430	U
Hexachloroethane	430	U	4300	U	430	U	430	U	430	U
Nitrobenzene	430	U	4300	U	430	U	430	U	430	U
Isophorone	430	U	4300	U	430	U	430	U	430	U
2-Nitrophenol	430	U	4300	U	430	U	430	U	430	U
2,4-Dimethylphenol	550		410	J	420	J	720		450	
bis(2-Chloroethoxy)methane	430	U	4300	U	430	U	430	U	430	U
2,4-Dichlorophenol	430	U	4300	U	430	U	430	U	430	U
Naphthalene	1200		1100	J	1200		1500		560	
4-Chloroaniline	430	UJ	4300	UJ	430	UJ	430	UJ	430	UJ
Hexachlorobutadiene	430	U	4300	U	430	U	430	U	430	U
Caprolactam	430	U	4300	UJ	430	U	430	UJ	430	U
4-Chloro-3-methylphenol	430	U	4300	U	3300		3300		430	U
2-Methylnaphthalene	750		660	J	700		1000		720	
Hexachlorocyclopentadiene	430	U	4300	U	430	U	430	U	430	U
2,4,6-Trichlorophenol	430	U	4300	U	430	U	430	U	430	U
2,4,5-Trichlorophenol	1100	U	11000	U	1100	U	1100	U	1100	U
1,1'-Biphenyl	300	J	320	J	350	J	450		140	J
2-Chloronaphthalene	430	U	4300	U	430	U	430	U	430	U
2-Nitroaniline	1100	U	11000	U	1100	U	1100	U	1100	U
Dimethylphthalate	430	U	4300	U	430	U	430	U	430	U
2,6-Dinitrotoluene	430	U	4300	U	430	U	430	U	430	U
Acenaphthylene	59	J	4300	U	120	J	430	U	160	J
3-Nitroaniline	1100	U	11000	U	1100	U	1100	U	1100	U
Acenaphthene	2900	J	2800	J	4800		6300		670	

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 5

Sample Number :	EDAM7DL		EDAM8		EDAM8DL		EDAM8MS		EDAM8MSD	
Sampling Location :	X103		X104		X104		X104		X104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999		11/29/1999		11/29/1999	
Time Sampled :	13:30		15:00		15:00		15:00		15:00	
%Moisture :	24		21		21		21		21	
pH :	7.6		7.9		7.9		7.9		7.9	
Dilution Factor :	2.0		1.0		2.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	2200	UJ	32000	U	63000	U	32000	U	32000	U
4-Nitrophenol	2200	UJ	32000	U	63000	U	62000		55000	
Dibenzofuran	550	J	6700	J	7000	J	5800	J	4200	J
2,4-Dinitrotoluene	860	UJ	13000	U	25000	U	42000		33000	
Diethylphthalate	860	U	13000	U	25000	U	13000	U	13000	U
Fluorene	820	J	18000		16000	J	15000		13000	U
4-Chlorophenyl-phenyl ether	860	U	13000	U	25000	U	13000	U	13000	U
4-Nitroaniline	2200	U	32000	U	63000	U	32000	U	32000	U
4,6-Dinitro-2-methylphenol	2200	UJ	32000	U	63000	U	32000	U	32000	U
N-Nitrosodiphenylamine	860	U	13000	U	25000	U	13000	U	13000	U
4-Bromophenyl-phenylether	860	U	13000	U	25000	U	13000	U	13000	U
Hexachlorobenzene	860	U	13000	U	25000	U	13000	U	13000	U
Atrazine	860	UJ	13000	UJ	25000	U	13000	UJ	13000	UJ
Pentachlorophenol	2200	U	32000	U	63000	U	65000		57000	
Phenanthrene	3600		74000		66000		62000		47000	
Anthracene	1100		5600	J	25000	U	4700	J	3600	J
Carbazole	490	J	13000	U	25000	U	13000	U	13000	U
Di-n-butylphthalate	380	J	13000	U	25000	U	13000	U	13000	U
Fluoranthene	3900		3400	J	4400	J	2900	J	2200	J
Pyrene	3100		18000		14000	J	67000		55000	
Butylbenzylphthalate	860	U	13000	U	25000	U	13000	U	13000	U
3,3'-Dichlorobenzidine	860	U	13000	U	25000	U	13000	U	13000	U
Benzo(a)anthracene	1500		15000		13000	J	13000		9300	J
Chrysene	1800		23000		21000	J	19000		15000	
bis(2-Ethylhexyl)phthalate	870	J	1200	J	1700	J	1100	J	960	J
Di-n-octylphthalate	860	U	13000	U	25000	UJ	13000	U	13000	U
Benzo(b)fluoranthene	1200		4800	J	6500	J	4100	J	3300	J
Benzo(k)fluoranthene	1400		13000	U	25000	U	13000	U	860	J
Benzo(a)pyrene	1400		5200	J	5300	J	4500	J	3400	J
Indeno(1,2,3-cd)pyrene	700	J	740	J	25000	UJ	13000	U	13000	U
Dibenzo(a,h)anthracene	310	J	2500	J	2300	J	2100	J	1600	J
Benzo(g,h,i)perylene	810	J	2200	J	2100	J	1900	J	1600	J

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS Number of Soil Samples : 6
Lab. : SWOK Number of Water Samples : 5
Reviewer : S. Tobin
Date : 01/18/00

Sample Number :	EDAM7DL		EDAM8		EDAM8DL		EDAM8MS		EDAM8MSD	
Sampling Location :	X103		X104		X104		X104		X104	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999		11/29/1999		11/29/1999	
Time Sampled :	13:30		15:00		15:00		15:00		15:00	
%Moisture :	24		21		21		21		21	
pH :	7.6		7.9		7.9		7.9		7.9	
Dilution Factor :	2.0		1.0		2.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	860	UJ	13000	UJ	25000	UJ	13000	UJ	13000	UJ
Phenol	530	J	13000	U	25000	U	65000		61000	
bis-(2-Chloroethyl) ether	860	U	13000	U	25000	U	13000	U	13000	U
2-Chlorophenol	860	U	13000	U	25000	U	61000		53000	
2-Methylphenol	510	J	13000	U	25000	U	13000	U	13000	U
2,2'-oxybis(1-Chloropropane)	860	U	13000	U	25000	U	13000	U	13000	U
Acetophenone	860	U	13000	U	25000	U	13000	U	13000	U
4-Methylphenol	1300		13000	U	25000	U	13000	U	13000	U
N-Nitroso-di-n-propylamine	860	U	13000	U	25000	U	49000		40000	
Hexachloroethane	860	U	13000	U	25000	U	13000	U	13000	U
Nitrobenzene	860	U	13000	U	25000	U	13000	U	13000	U
Isophorone	860	U	13000	U	25000	U	13000	U	13000	U
2-Nitrophenol	860	U	13000	U	25000	U	13000	U	13000	U
2,4-Dimethylphenol	430	J	13000	U	25000	U	13000	U	13000	U
bis(2-Chloroethoxy)methane	860	U	13000	U	25000	U	13000	U	13000	U
2,4-Dichlorophenol	860	U	13000	U	25000	U	13000	U	13000	U
Naphthalene	520	J	6400	J	5800	J	13000	U	13000	U
4-Chloroaniline	860	UJ	13000	UJ	25000	U	13000	UJ	13000	UJ
Hexachlorobutadiene	860	U	13000	U	25000	U	13000	U	13000	U
Caprolactam	860	UJ	13000	U	25000	UJ	13000	U	13000	U
4-Chloro-3-methylphenol	860	U	13000	U	25000	U	70000		61000	
2-Methylnaphthalene	790	J	150000		140000		130000		91000	
Hexachlorocyclopentadiene	860	U	13000	U	25000	UJ	13000	U	13000	U
2,4,6-Trichlorophenol	860	U	13000	U	25000	U	13000	U	13000	U
2,4,5-Trichlorophenol	2200	U	32000	U	63000	U	32000	U	32000	U
1,1'-Biphenyl	140	J	13000	U	25000	U	13000	U	13000	U
2-Chloronaphthalene	860	U	13000	U	25000	U	13000	U	13000	U
2-Nitroaniline	2200	U	32000	U	63000	U	32000	U	32000	U
Dimethylphthalate	860	U	13000	U	25000	U	13000	U	13000	U
2,6-Dinitrotoluene	860	U	13000	U	25000	U	13000	U	13000	U
Acenaphthylene	79	J	13000	U	25000	U	13000	U	13000	U
3-Nitroaniline	2200	U	32000	U	63000	U	32000	U	32000	U
Acenaphthene	680	J	7700	J	8100	J	51000		45000	

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 5

Sample Number :	EDAM9		EDAN0		EDAN0DL		EDAN1		SBLK1	
Sampling Location :	X105		X106		X106		X107			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999									
Time Sampled :	15:30									
%Moisture :	21		47		47		15		N/A	
pH :	7.8		12.3		12.3		9.8		7.0	
Dilution Factor :	1.0		1.0		5.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	120	J	610	UJ	3100	UJ	87	J	330	UJ
Phenol	35	J	1600		380	J	360	U	330	U
bis-(2-Chloroethyl) ether	410	U	610	U	3100	U	360	U	330	U
2-Chlorophenol	410	U	610	U	3100	U	360	U	330	U
2-Methylphenol	410	U	610	U	3100	U	360	U	330	U
2,2'-oxybis(1-Chloropropane)	410	U	610	U	3100	U	360	U	330	U
Acetophenone	410	U	610	U	3100	U	42	J	330	U
4-Methylphenol	35	J	640		160	J	360	U	330	U
N-Nitroso-di-n-propylamine	410	U	610	U	3100	U	360	U	330	U
Hexachloroethane	410	U	610	U	3100	U	360	U	330	U
Nitrobenzene	410	U	610	U	3100	U	360	U	330	U
Isophorone	410	U	610	U	3100	U	360	U	330	U
2-Nitrophenol	410	U	610	U	3100	U	360	U	330	U
2,4-Dimethylphenol	410	U	610	U	3100	U	360	U	330	U
bis(2-Chloroethoxy)methane	410	U	610	U	3100	U	360	U	330	U
2,4-Dichlorophenol	410	U	610	U	3100	U	360	U	330	U
Naphthalene	160	J	6200		1900	J	41	J	330	U
4-Chloroaniline	410	UJ	610	UJ	3100	UJ	360	UJ	330	UJ
Hexachlorobutadiene	410	U	610	U	3100	U	360	U	330	U
Caprolactam	410	U	610	U	3100	UJ	360	U	330	U
4-Chloro-3-methylphenol	410	U	610	U	3100	U	360	U	330	U
2-Methylnaphthalene	520		10000		3400		71	J	330	U
Hexachlorocyclopentadiene	410	U	610	U	3100	U	360	U	330	U
2,4,6-Trichlorophenol	410	U	610	U	3100	U	360	U	330	U
2,4,5-Trichlorophenol	1000	U	1500	U	7700	U	920	U	830	U
1,1'-Biphenyl	39	J	960		260	J	360	U	330	U
2-Chloronaphthalene	410	U	610	U	3100	U	360	U	330	U
2-Nitroaniline	1000	U	1500	U	7700	U	920	U	830	U
Dimethylphthalate	410	U	610	U	3100	U	360	U	330	U
2,6-Dinitrotoluene	410	U	610	U	3100	U	360	U	330	U
Acenaphthylene	410	U	610	U	3100	U	77	J	330	U
3-Nitroaniline	1000	U	1500	U	7700	U	920	U	830	U
Acenaphthene	590		3000		910	J	27	J	330	U

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS Number of Soil Samples : 6
Lab. : SWOK Number of Water Samples : 5
Reviewer : S. Tobin
Date : 01/18/00

Sample Number :	EDAM9		EDAN0		EDAN0DL		EDAN1		SBLK1	
Sampling Location :	X105		X106		X106		X107			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999									
Time Sampled :	15:30									
%Moisture :	21		47		47		15		N/A	
pH :	7.8		12.3		12.3		9.8		7.0	
Dilution Factor :	1.0		1.0		5.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	1000	UJ	1500	UJ	7700	UJ	920	UJ	830	UJ
4-Nitrophenol	1000	U	1500	U	7700	UJ	920	U	830	U
Dibenzofuran	110	J	2100		590	J	360	U	330	U
2,4-Dinitrotoluene	410	U	610	U	3100	UJ	360	U	330	U
Diethylphthalate	21	J	610	U	3100	U	360	U	330	U
Fluorene	240	J	3900		1200	J	64	J	330	U
4-Chlorophenyl-phenyl ether	410	U	610	U	3100	U	360	U	330	U
4-Nitroaniline	1000	U	1500	U	7700	U	920	U	830	U
4,6-Dinitro-2-methylphenol	1000	U	1500	U	7700	UJ	920	U	830	U
N-Nitrosodiphenylamine	410	U	610	U	3100	U	360	U	330	U
4-Bromophenyl-phenylether	410	U	610	U	3100	U	360	U	330	U
Hexachlorobenzene	410	U	610	U	3100	U	360	U	330	U
Atrazine	410	U	610	U	3100	UJ	360	U	330	U
Pentachlorophenol	1000	U	1500	U	7700	U	920	U	830	U
Phenanthrene	800		14000		4400		130	J	330	U
Anthracene	220	J	5800		1600	J	54	J	330	U
Carbazole	95	J	2200		690	J	37	J	330	U
Di-n-butylphthalate	230	J	670		190	J	28	J	330	U
Fluoranthene	770		12000		4200		180	J	330	U
Pyrene	810		11000		2800	J	190	J	330	U
Butylbenzylphthalate	3200		610	U	3100	U	360	U	330	U
3,3'-Dichlorobenzidine	410	U	610	U	3100	U	360	U	330	U
Benzo(a)anthracene	580		6400		1900	J	140	J	330	U
Chrysene	620		6600		2100	J	160	J	330	U
bis(2-Ethylhexyl)phthalate	950		1600		3100	UJ	360	U	29	J
Di-n-octylphthalate	410	U	610	U	3100	U	360	U	330	U
Benzo(b)fluoranthene	370	J	4700		1500	J	160	J	330	U
Benzo(k)fluoranthene	260	J	3700		1100	J	97	J	330	U
Benzo(a)pyrene	500		5000		1700	J	160	J	330	U
Indeno(1,2,3-cd)pyrene	260	J	2700		760	J	120	J	330	U
Dibenzo(a,h)anthracene	260	J	1300		3100	U	68	J	330	U
Benzo(g,h,i)perylene	380	J	2700		810	J	120	J	330	U

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 5

Sample Number :	SBLK3		SBLK4							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :	7.0		7.0							
Dilution Factor :	1.0		1.0							
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10000	UJ	10000	UJ						
Phenol	10000	U	10000	U						
bis-(2-Chloroethyl) ether	10000	U	10000	U						
2-Chlorophenol	10000	U	10000	U						
2-Methylphenol	10000	U	10000	U						
2,2'-oxybis(1-Chloropropane)	10000	U	10000	U						
Acetophenone	10000	U	10000	U						
4-Methylphenol	10000	U	10000	U						
N-Nitroso-di-n-propylamine	10000	U	10000	U						
Hexachloroethane	10000	U	10000	U						
Nitrobenzene	10000	U	10000	U						
Isophorone	10000	U	10000	U						
2-Nitrophenol	10000	U	10000	U						
2,4-Dimethylphenol	10000	U	10000	U						
bis(2-Chloroethoxy)methane	10000	U	10000	U						
2,4-Dichlorophenol	10000	U	10000	U						
Naphthalene	10000	U	10000	U						
4-Chloroaniline	10000	UJ	10000	U						
Hexachlorobutadiene	10000	U	10000	U						
Caprolactam	10000	U	10000	UJ						
4-Chloro-3-methylphenol	10000	U	10000	U						
2-Methylnaphthalene	10000	U	10000	U						
Hexachlorocyclopentadiene	10000	U	10000	UJ						
2,4,6-Trichlorophenol	10000	U	10000	U						
2,4,5-Trichlorophenol	25000	U	25000	U						
1,1'-Biphenyl	10000	U	10000	U						
2-Chloronaphthalene	10000	U	10000	U						
2-Nitroaniline	25000	U	25000	U						
Dimethylphthalate	10000	U	10000	U						
2,6-Dinitrotoluene	10000	U	10000	U						
Acenaphthylene	10000	U	10000	U						
3-Nitroaniline	25000	U	25000	U						
Acenaphthene	10000	U	10000	U						

Analytical Results (Qualified Data)

Case #: 27626	SDG : EDAM6		
Site :	INSTA FOAM PRODUCTS	Number of Soil Samples :	6
Lab. :	SWOK	Number of Water Samples :	5
Reviewer :	S. Tobin		
Date :	01/18/00		

Sample Number :	SBLK3		SBLK4							
Sampling Location :										
Matrix :	Soil		Soil							
Units :	ug/Kg		ug/Kg							
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A							
pH :	7.0		7.0							
Dilution Factor :	1.0		1.0							
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	25000	U	25000	U						
4-Nitrophenol	25000	U	25000	U						
Dibenzofuran	10000	U	10000	U						
2,4-Dinitrotoluene	10000	U	10000	U						
Diethylphthalate	10000	U	10000	U						
Fluorene	10000	U	10000	U						
4-Chlorophenyl-phenyl ether	10000	U	10000	U						
4-Nitroaniline	25000	U	25000	U						
4,6-Dinitro-2-methylphenol	25000	U	25000	U						
N-Nitrosodiphenylamine	10000	U	10000	U						
4-Bromophenyl-phenylether	10000	U	10000	U						
Hexachlorobenzene	10000	U	10000	U						
Atrazine	10000	UJ	10000	U						
Pentachlorophenol	25000	U	25000	U						
Phenanthrene	10000	U	10000	U						
Anthracene	10000	U	10000	U						
Carbazole	10000	U	10000	U						
Di-n-butylphthalate	10000	U	10000	U						
Fluoranthene	10000	U	10000	U						
Pyrene	10000	U	10000	U						
Butylbenzylphthalate	10000	U	10000	U						
3,3'-Dichlorobenzidine	10000	U	10000	U						
Benzo(a)anthracene	10000	U	10000	U						
Chrysene	10000	U	10000	U						
bis(2-Ethylhexyl)phthalate	10000	U	10000	U						
Di-n-octylphthalate	10000	U	10000	UJ						
Benzo(b)fluoranthene	10000	U	10000	U						
Benzo(k)fluoranthene	10000	U	10000	U						
Benzo(a)pyrene	10000	U	10000	U						
Indeno(1,2,3-cd)pyrene	10000	U	10000	UJ						
Dibenzo(a,h)anthracene	10000	U	10000	UJ						
Benzo(g,h,i)perylene	10000	U	10000	UJ						

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 5

Sample Number :	EDAP1		EDAP1MS		EDAP1MSD		EDAP2		EDAP2DL	
Sampling Location :	G101		G101		G101		G102		G102	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/30/1999		11/30/1999		11/30/1999		11/30/1999		11/30/1999	
Time Sampled :	11:30		11:30		11:30		12:00		12:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.7		6.7		6.7		6.7		6.7	
Dilution Factor :	1.0		1.0		1.0		1.0		2.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10	UJ	10	UJ	10	UJ	10	UJ	20	UJ
Phenol	10	U	51		34		10	U	20	U
bis-(2-Chloroethyl) ether	10	U	10	U	10	U	10	U	20	U
2-Chlorophenol	10	UJ	51		34		10	U	20	U
2-Methylphenol	10	U	10	U	10	U	10	U	20	U
2,2'-oxybis(1-Chloropropane)	10	U	10	U	10	U	10	U	20	U
Acetophenone	10	U	10	U	10	U	10	U	20	U
4-Methylphenol	10	U	10	U	10	U	10	U	20	U
N-Nitroso-di-n-propylamine	10	U	34		24		10	U	20	U
Hexachloroethane	10	U	10	U	10	U	10	U	20	U
Nitrobenzene	10	U	10	U	10	U	10	U	20	U
Isophorone	10	U	10	U	10	U	10	U	20	U
2-Nitrophenol	10	U	10	U	10	U	10	U	20	U
2,4-Dimethylphenol	10	U	10	U	10	U	10	U	20	U
bis(2-Chloroethoxy)methane	10	U	10	U	10	U	10	U	20	U
2,4-Dichlorophenol	10	U	10	U	10	U	10	U	20	U
Naphthalene	10	U	10	U	10	U	4	J	4	J
4-Chloroaniline	10	UJ	10	UJ	10	UJ	10	UJ	20	UJ
Hexachlorobutadiene	10	U	10	U	10	U	10	U	20	U
Caprolactam	76		64		48		110		90	
4-Chloro-3-methylphenol	10	U	43		34		10	U	20	U
2-Methylnaphthalene	10	U	10	U	10	U	19		17	J
Hexachlorocyclopentadiene	10	U	10	U	10	U	10	U	20	U
2,4,6-Trichlorophenol	10	U	10	U	10	U	10	U	20	U
2,4,5-Trichlorophenol	25	U	25	U	25	U	25	U	50	U
1,1'-Biphenyl	10	U	10	U	10	U	10	U	20	U
2-Chloronaphthalene	10	U	10	U	10	U	10	U	20	U
2-Nitroaniline	25	U	25	U	25	U	25	U	50	U
Dimethylphthalate	10	U	10	U	10	U	10	U	20	U
2,6-Dinitrotoluene	10	U	10	U	10	U	10	U	20	U
Acenaphthylene	10	U	1	J	0.9	J	10	U	20	U
3-Nitroaniline	25	U	25	U	25	U	25	U	50	U
Acenaphthene	10	UJ	34		24		4	J	3	J

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 5

Sample Number :	EDAP1		EDAP1MS		EDAP1MSD		EDAP2		EDAP2DL	
Sampling Location :	G101		G101		G101		G102		G102	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/30/1999		11/30/1999		11/30/1999		11/30/1999		11/30/1999	
Time Sampled :	11:30		11:30		11:30		12:00		12:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.7		6.7		6.7		6.7		6.7	
Dilution Factor :	1.0		1.0		1.0		1.0		2.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	25	U	25	U	25	U	25	U	50	U
4-Nitrophenol	25	U	54		38		25	U	50	U
Dibenzofuran	10	U	10	U	10	U	3	J	3	J
2,4-Dinitrotoluene	10	U	33		23		10	U	20	U
Diethylphthalate	10	U	10	U	10	U	10	U	20	U
Fluorene	10	U	10	U	10	U	6	J	6	J
4-Chlorophenyl-phenyl ether	10	U	10	U	10	U	10	U	20	U
4-Nitroaniline	25	UJ	25	UJ	25	UJ	25	UJ	50	U
4,6-Dinitro-2-methylphenol	25	U	25	U	25	U	25	U	50	U
N-Nitrosodiphenylamine	10	U	10	U	10	U	10	U	20	U
4-Bromophenyl-phenylether	10	U	10	U	10	U	10	U	20	U
Hexachlorobenzene	10	U	10	U	10	U	10	U	20	U
Atrazine	10	UJ	10	UJ	10	UJ	10	UJ	20	UJ
Pentachlorophenol	25	U	48		35		25	U	50	U
Phenanthrene	10	U	10	U	10	U	7	J	7	J
Anthracene	10	U	10	U	10	U	10	U	20	U
Carbazole	10	U	10	U	10	U	2	J	2	J
Di-n-butylphthalate	10	U	10	U	10	U	10	U	20	U
Fluoranthene	10	U	10	U	10	U	0.8	J	20	U
Pyrene	10	UJ	31		21		2	J	2	J
Butylbenzylphthalate	10	U	10	U	0.8	J	0.7	J	20	U
3,3'-Dichlorobenzidine	10	U	10	U	10	U	10	U	20	U
Benzo(a)anthracene	10	U	10	U	10	U	2	J	2	J
Chrysene	10	U	10	U	10	U	3	J	3	J
bis(2-Ethylhexyl)phthalate	10	U	10	U	10	U	46		41	
Di-n-octylphthalate	10	U	10	U	10	U	10	U	20	U
Benzo(b)fluoranthene	10	U	10	U	10	U	1	J	20	U
Benzo(k)fluoranthene	10	U	10	U	10	U	10	U	1	J
Benzo(a)pyrene	10	U	10	U	10	U	0.8	J	20	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	10	U	10	U	20	U
Dibenzo(a,h)anthracene	10	U	10	U	10	U	10	U	20	U
Benzo(g,h,i)perylene	10	U	10	U	10	U	10	U	20	U

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS Number of Soil Samples : 6
Lab. : SWOK Number of Water Samples : 5
Reviewer : S. Tobin
Date : 01/18/00

Sample Number :	EDAP3		EDAP4		EDAP4DL		EDAP5		SBLK2	
Sampling Location :	G103		G104		G104		FB			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/30/1999		11/29/1999		11/29/1999		11/30/1999			
Time Sampled :	12:00		11:35		11:35		09:40			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.8		7.0		7.0		7.8		7.0	
Dilution Factor :	1.0		1.0		2.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Benzaldehyde	10	UJ	10	UJ	20	UJ	10	UJ	10	UJ
Phenol	10	U	0.9	J	20	U	10	U	10	U
bis-(2-Chloroethyl) ether	10	U	10	U	20	U	10	U	10	U
2-Chlorophenol	10	U	10	U	20	U	10	U	10	U
2-Methylphenol	10	U	10	U	20	U	10	U	10	U
2,2'-oxybis(1-Chloropropane)	10	U	10	U	20	U	10	U	10	U
Acetophenone	10	U	10	U	20	U	10	U	10	U
4-Methylphenol	10	U	10	U	20	U	10	U	10	U
N-Nitroso-di-n-propylamine	10	U	10	U	20	U	10	U	10	U
Hexachloroethane	10	U	10	U	20	U	10	U	10	U
Nitrobenzene	10	U	10	U	20	U	10	U	10	U
Isophorone	10	U	10	U	20	U	10	U	10	U
2-Nitrophenol	10	U	10	U	20	U	10	U	10	U
2,4-Dimethylphenol	10	U	10	U	20	U	10	U	10	U
bis(2-Chloroethoxy)methane	10	U	10	U	20	U	10	U	10	U
2,4-Dichlorophenol	10	U	10	U	20	U	10	U	10	U
Naphthalene	3	J	10	U	20	U	10	U	10	U
4-Chloroaniline	10	UJ	10	UJ	20	UJ	10	UJ	10	UJ
Hexachlorobutadiene	10	U	10	U	20	U	10	U	10	U
Caprolactam	62		140		140		10	U	10	U
4-Chloro-3-methylphenol	10	U	10	U	20	U	10	U	10	U
2-Methylnaphthalene	14		10	U	20	U	10	U	10	U
Hexachlorocyclopentadiene	10	U	10	U	20	U	10	U	10	U
2,4,6-Trichlorophenol	10	U	10	U	20	U	10	U	10	U
2,4,5-Trichlorophenol	25	U	25	U	50	U	25	U	25	U
1,1'-Biphenyl	10	U	10	U	20	U	10	U	10	U
2-Chloronaphthalene	10	U	10	U	20	U	10	U	10	U
2-Nitroaniline	25	U	25	U	50	U	25	U	25	U
Dimethylphthalate	10	U	10	U	20	U	10	U	10	U
2,6-Dinitrotoluene	10	U	10	U	20	U	10	U	10	U
Acenaphthylene	10	U	10	U	20	U	10	U	10	U
3-Nitroaniline	25	U	25	U	50	U	25	U	25	U
Acenaphthene	3	J	0.9	J	20	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS Number of Soil Samples : 6
Lab. : SWOK Number of Water Samples : 5
Reviewer : S. Tobin
Date : 01/18/00

Sample Number :	EDAP3		EDAP4		EDAP4DL		EDAP5		SBLK2	
Sampling Location :	G103		G104		G104		FB			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/30/1999		11/29/1999		11/29/1999		11/30/1999			
Time Sampled :	12:00		11:35		11:35		09:40			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.8		7.0		7.0		7.8		7.0	
Dilution Factor :	1.0		1.0		2.0		1.0		1.0	
Semivolatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
2,4-Dinitrophenol	25	U	25	U	50	U	25	U	25	U
4-Nitrophenol	25	U	25	U	50	U	25	U	25	U
Dibenzofuran	10	U	10	U	20	U	10	U	10	U
2,4-Dinitrotoluene	10	U	10	U	20	U	10	U	10	U
Diethylphthalate	10	U	10	U	20	U	10	U	10	U
Fluorene	4	J	0.6	J	20	U	10	U	10	U
4-Chlorophenyl-phenyl ether	10	U	10	U	20	U	10	U	10	U
4-Nitroaniline	25	UJ	25	UJ	50	U	25	UJ	25	UJ
4,6-Dinitro-2-methylphenol	25	U	25	U	50	U	25	U	25	U
N-Nitrosodiphenylamine	10	U	10	U	20	U	10	U	10	U
4-Bromophenyl-phenylether	10	U	10	U	20	U	10	U	10	U
Hexachlorobenzene	10	U	10	U	20	U	10	U	10	U
Atrazine	10	UJ	10	UJ	20	UJ	10	UJ	10	UJ
Pentachlorophenol	25	U	25	U	50	U	25	U	25	U
Phenanthrene	6	J	10	U	20	U	10	U	10	U
Anthracene	10	U	10	U	20	U	10	U	10	U
Carbazole	2	J	10	U	20	U	10	U	10	U
Di-n-butylphthalate	10	U	10	U	20	U	10	U	0.5	J
Fluoranthene	0.6	J	0.8	J	20	U	10	U	10	U
Pyrene	1	J	0.6	J	20	U	10	U	10	U
Butylbenzylphthalate	10	U	10	U	20	U	10	U	10	U
3,3'-Dichlorobenzidine	10	U	10	U	20	U	10	U	10	U
Benzo(a)anthracene	1	J	10	U	20	U	10	U	10	U
Chrysene	2	J	10	U	20	U	10	U	10	U
bis(2-Ethylhexyl)phthalate	10	U	10	U	20	U	10	U	0.5	J
Di-n-octylphthalate	10	U	10	U	20	U	10	U	10	U
Benzo(b)fluoranthene	0.7	J	10	U	20	U	10	U	10	U
Benzo(k)fluoranthene	10	U	10	U	20	U	10	U	10	U
Benzo(a)pyrene	0.5	J	10	U	20	U	10	U	10	U
Indeno(1,2,3-cd)pyrene	10	U	10	U	20	U	10	U	10	U
Dibenzo(a,h)anthracene	10	U	10	U	20	U	10	U	10	U
Benzo(g,h,i)perylene	10	U	10	U	20	U	10	U	10	U

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 5

Sample Number :	EDAM6		EDAM6DL		EDAM6MS		EDAM6MSD		EDAM7	
Sampling Location :	X102		X102		X102		X102		X103	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999		11/29/1999		11/29/1999	
Time Sampled :	13:30		13:30		13:30		13:30		13:30	
%Moisture :	24		24		24		24		24	
pH :	7.5		7.5		7.5		7.5		7.6	
Dilution Factor :	1.0		10.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	2.2	UJ	22	U	2.2	R	2.2	UJ	1.9	UJ
beta-BHC	16	J	22	U	19	J	19	J	0.33	J
delta-BHC	2.6	J	22	U	50	J	1.3	J	43	J
gamma-BHC (Lindane)	0.97	J	22	U	14	J	11	J	6.7	J
Heptachlor	2.2	UJ	22	U	6.0	J	17	J	1.9	UJ
Aldrin	2.3	J	22	U	22	J	12	J	1.9	UJ
Heptachlor epoxide	2.7	J	8.9	J	1.6	J	5.6	J	1.7	J
Endosulfan I	35	J	22	U	15	J	12	J	12	J
Dieldrin	5.4	J	43	U	45	J	37	J	3.1	J
4,4'-DDE	570	J	400		1100	J	650	J	320	J
Endrin	30	J	43	U	23	J	49	J	13	J
Endosulfan II	6.2	J	13	J	3.7	J	4.2	J	2.7	J
4,4'-DDD	7.2	J	15	J	36	J	25	J	4.6	J
Endosulfan sulfate	4.3	UJ	30	J	27	J	24	J	3.7	UJ
4,4'-DDT	39	J	26	J	53	J	66	J	15	J
Methoxychlor	2.7	J	220	U	13	J	15	J	16	J
Endrin ketone	8.2	J	24	J	3.7	J	4.2	UJ	3.7	UJ
Endrin aldehyde	78	J	8.4	J	68	J	81	J	77	J
alpha-Chlordane	1.3	J	45	J	1.6	J	1.7	J	2.6	J
gamma-Chlordane	12	J	22	U	27	J	19	J	7.6	J
Toxaphene	220	UJ	2200	U	220	R	220	UJ	190	UJ
Aroclor-1016	43	UJ	430	U	42	R	42	UJ	37	UJ
Aroclor-1221	88	UJ	880	U	85	R	86	UJ	75	UJ
Aroclor-1232	43	UJ	430	U	42	R	42	UJ	37	UJ
Aroclor-1242	43	UJ	430	U	42	R	42	UJ	37	UJ
Aroclor-1248	43	UJ	430	U	42	R	42	UJ	37	UJ
Aroclor-1254	43	UJ	430	U	42	R	42	UJ	37	UJ
Aroclor-1260	43	UJ	430	U	42	R	42	UJ	37	UJ

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS Number of Soil Samples : 6
Lab. : SWOK Number of Water Samples : 5
Reviewer : S. Tobin
Date : 01/18/00

Sample Number :	EDAM7DL		EDAM8		EDAM8DL		EDAM9		EDAM9DL	
Sampling Location :	X103		X104		X104		X105		X105	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999		11/29/1999		11/29/1999	
Time Sampled :	13:30		15:00		15:00		15:30		15:30	
%Moisture :	24		21		21		21		21	
pH :	7.6		7.9		7.9		7.8		7.8	
Dilution Factor :	10.0		1.0		10.0		1.0		10.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	19	U	0.69	J	21	U	2.1	U	21	U
beta-BHC	19	U	3.3	J	21	U	8.8	J	21	U
delta-BHC	19	U	2.1	UJ	21	U	9.6	J	21	U
gamma-BHC (Lindane)	19	U	1.5	J	21	U	1.3	J	21	U
Heptachlor	19	U	3.5	J	21	U	2.1	U	21	U
Aldrin	19	U	0.55	J	21	U	6.1	J	21	U
Heptachlor epoxide	8.4	J	2.1	UJ	21	U	0.73	J	21	U
Endosulfan I	19	U	1.4	J	21	U	2.1	U	21	U
Dieldrin	10	J	0.42	J	41	U	4.1	U	41	U
4,4'-DDE	210		0.24	J	4.4	J	0.33	J	41	U
Endrin	37	U	0.56	J	41	U	1.1	J	41	U
Endosulfan II	37	U	4.5	J	41	U	4.1	U	41	U
4,4'-DDD	37	U	2.5	J	41	U	4.1	U	41	U
Endosulfan sulfate	14	J	2.6	J	41	U	4.1	U	82	
4,4'-DDT	11	J	4.1	UJ	6.3	J	4.1	U	41	U
Methoxychlor	190	U	21	UJ	210	U	2.5	J	210	U
Endrin ketone	37	U	5.2	J	41	U	4.1	U	41	U
Endrin aldehyde	11	J	1.9	J	41	U	3.8	J	24	J
alpha-Chlordane	18	J	0.62	J	21	U	2.1	U	21	U
gamma-Chlordane	19	U	0.32	J	21	U	1.3	J	21	U
Toxaphene	1900	U	210	UJ	2100	U	210	U	2100	U
Aroclor-1016	370	U	41	UJ	410	U	41	U	410	U
Aroclor-1221	750	U	83	UJ	830	U	84	U	840	U
Aroclor-1232	370	U	41	UJ	410	U	41	U	410	U
Aroclor-1242	370	U	41	UJ	410	U	41	U	410	U
Aroclor-1248	370	U	41	UJ	410	U	41	U	410	U
Aroclor-1254	370	U	41	UJ	410	U	41	U	410	U
Aroclor-1260	370	U	41	UJ	410	U	41	U	410	U

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 5

Sample Number :	EDAN0		EDAN0DL		EDAN1		EDAN1DL		PBLKSF	
Sampling Location :	X106		X106		X107		X107			
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	ug/Kg		ug/Kg		ug/Kg		ug/Kg		ug/Kg	
Date Sampled :										
Time Sampled :										
%Moisture :	47		47		15		15		N/A	
pH :	12.2		12.2		9.8		9.8		7.0	
Dilution Factor :	1.0		10.0		1.0		10.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	17	J	30	U	2.0	U	20	U	1.7	U
beta-BHC	6.0	J	30	U	4.7	J	20	U	1.7	U
delta-BHC	13	J	30	U	2.0	U	20	U	1.7	U
gamma-BHC (Lindane)	7.4	J	30	U	2.0	U	20	U	1.7	U
Heptachlor	3.0	U	30	U	1.1	J	20	U	1.7	U
Aldrin	3.0	U	30	U	1.3	J	20	U	1.7	U
Heptachlor epoxide	3.0	U	30	U	2.0	U	20	U	1.7	U
Endosulfan I	3.0	U	30	U	2.0	U	20	U	1.7	U
Dieldrin	1.7	J	59	U	3.8	U	38	U	3.3	U
4,4'-DDE	92		52	J	1.5	J	38	U	3.3	U
Endrin	4.5	J	59	U	7.8	J	38	U	3.3	U
Endosulfan II	3.1	J	59	U	3.8	U	38	U	3.3	U
4,4'-DDD	1.8	J	59	U	3.8	U	38	U	3.3	U
Endosulfan sulfate	5.5	J	59	U	1.5	J	38	U	3.3	U
4,4'-DDT	4.0	J	20	J	3.8	U	38	U	3.3	U
Methoxychlor	58		300	U	20	U	200	U	17	U
Endrin ketone	6.8	J	59	U	3.8	U	38	U	3.3	U
Endrin aldehyde	5.9	U	59	U	3.8	U	38	U	3.3	U
alpha-Chlordane	3.2	J	30	U	2.0	U	20	U	1.7	U
gamma-Chlordane	5.6	J	30	U	0.96	J	20	U	1.7	U
Toxaphene	300	U	3000	U	200	U	2000	U	170	U
Aroclor-1016	59	U	590	U	38	U	380	U	33	U
Aroclor-1221	120	U	1200	U	77	U	770	U	67	U
Aroclor-1232	59	U	590	U	38	U	380	U	33	U
Aroclor-1242	59	U	590	U	38	U	380	U	33	U
Aroclor-1248	59	U	590	U	38	U	380	U	33	U
Aroclor-1254	59	U	590	U	38	U	380	U	33	U
Aroclor-1260	59	U	590	U	38	U	380	U	33	U

Analytical Results (Qualified Data)

Case #: 27626	SDG : EDAM6		
Site :	INSTA FOAM PRODUCTS	Number of Soil Samples :	6
Lab. :	SWOK	Number of Water Samples :	5
Reviewer :	S. Tobin		
Date :	01/18/00		

Sample Number :	PBLKSG									
Sampling Location :										
Matrix :	Soil									
Units :	ug/Kg									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :	7.0									
Dilution Factor :	1.0									
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	1.7	U								
beta-BHC	1.7	U								
delta-BHC	1.7	U								
gamma-BHC (Lindane)	1.7	U								
Heptachlor	0.99	J								
Aldrin	1.7	U								
Heptachlor epoxide	1.7	U								
Endosulfan I	1.7	U								
Dieldrin	3.3	U								
4,4'-DDE	3.3	U								
Endrin	3.3	U								
Endosulfan II	3.3	U								
4,4'-DDD	3.3	U								
Endosulfan sulfate	3.3	U								
4,4'-DDT	3.3	U								
Methoxychlor	17	U								
Endrin ketone	3.3	U								
Endrin aldehyde	3.3	U								
alpha-Chlordane	1.7	U								
gamma-Chlordane	1.7	U								
Toxaphene	170	U								
Aroclor-1016	33	U								
Aroclor-1221	67	U								
Aroclor-1232	33	U								
Aroclor-1242	33	U								
Aroclor-1248	33	U								
Aroclor-1254	33	U								
Aroclor-1260	33	U								

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS
Lab. : SWOK
Reviewer : S. Tobin
Date : 01/18/00

Number of Soil Samples : 6
Number of Water Samples : 5

Sample Number :	EDAP1		EDAP1MS		EDAP1MSD		EDAP2		EDAP2DL	
Sampling Location :	G101		G101		G101		G102		G102	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/30/1999		11/30/1999		11/30/1999		11/30/1999		11/30/1999	
Time Sampled :	11:30		11:30		11:30		12:00		12:00	
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.7		6.7		6.7		6.7		6.7	
Dilution Factor :	1.0		1.0		1.0		1.0		10.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.50	U
beta-BHC	0.050	U	0.050	U	0.050	U	0.050	U	0.50	U
delta-BHC	0.050	U	0.050	U	0.050	U	0.027	J	0.50	U
gamma-BHC (Lindane)	0.050	UJ	0.29		0.25		0.050	U	0.50	U
Heptachlor	0.050	U	0.31		0.28		0.050	U	0.50	U
Aldrin	0.050	U	0.32		0.28		0.030	J	0.50	U
Heptachlor epoxide	0.050	U	0.050	U	0.050	U	0.050	U	0.50	U
Endosulfan I	0.050	U	0.050	U	0.050	U	0.050	U	0.50	U
Dieldrin	0.10	U	0.72		0.63		0.10	U	1.0	U
4,4'-DDE	0.10	U	0.10	U	0.10	U	0.10	U	1.0	U
Endrin	0.10	U	0.91		0.82		0.10	U	1.0	U
Endosulfan II	0.10	U	0.10	U	0.10	U	0.10	U	1.0	U
4,4'-DDD	0.10	U	0.10	U	0.10	U	0.10	U	1.0	U
Endosulfan sulfate	0.10	U	0.10	U	0.10	U	1.9	J	1.0	U
4,4'-DDT	0.10	U	0.72		0.71		0.10	U	1.0	U
Methoxychlor	0.50	U	0.50	U	0.50	U	0.50	U	5.0	U
Endrin ketone	0.10	U	0.036	J	0.10	U	0.28	J	1.0	U
Endrin aldehyde	0.10	U	0.042	J	0.10	U	0.10	U	1.0	U
alpha-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.50	U
gamma-Chlordane	0.050	U	0.050	U	0.050	U	0.050	U	0.50	U
Toxaphene	5.0	U	5.0	U	5.0	U	5.0	U	50	U
Aroclor-1016	1.0	U	1.0	U	1.0	U	1.0	U	10	U
Aroclor-1221	2.0	U	2.0	U	2.0	U	2.0	U	20	U
Aroclor-1232	1.0	U	1.0	U	1.0	U	1.0	U	10	U
Aroclor-1242	1.0	U	1.0	U	1.0	U	1.0	U	10	U
Aroclor-1248	1.0	U	1.0	U	1.0	U	1.0	U	10	U
Aroclor-1254	1.0	U	1.0	U	1.0	U	1.0	U	10	U
Aroclor-1260	1.0	U	1.0	U	1.0	U	1.0	U	10	U

Analytical Results (Qualified Data)

Case #: 27626 SDG : EDAM6
Site : INSTA FOAM PRODUCTS Number of Soil Samples : 6
Lab. : SWOK Number of Water Samples : 5
Reviewer : S. Tobin
Date : 01/18/00

Sample Number :	EDAP3		EDAP3DL		EDAP4		EDAP5		PBLKWA	
Sampling Location :	G103		G103		G104		FB			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/30/1999		11/30/1999		11/29/1999		11/30/1999			
Time Sampled :	12:00		12:00		11:35		09:40			
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	6.8		6.8		7.0		7.8		7.0	
Dilution Factor :	1.0		10.0		1.0		1.0		1.0	
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.50	U	0.050	U	0.050	U	0.050	U
beta-BHC	0.050	U	0.50	U	0.050	U	0.050	U	0.050	U
delta-BHC	0.022	J	0.50	U	0.050	U	0.050	U	0.050	U
gamma-BHC (Lindane)	0.050	U	0.50	U	0.050	U	0.050	U	0.050	U
Heptachlor	0.050	U	0.50	U	0.050	U	0.050	U	0.050	U
Aldrin	0.050	U	0.50	U	0.050	U	0.050	U	0.050	U
Heptachlor epoxide	0.050	U	0.50	U	0.050	U	0.050	U	0.050	U
Endosulfan I	0.050	U	0.50	U	0.012	J	0.050	U	0.050	U
Dieldrin	0.10	U	1.0	U	0.10	U	0.10	U	0.10	U
4,4'-DDE	0.10	U	1.0	U	0.052	J	0.10	U	0.10	U
Endrin	0.10	U	1.0	U	0.10	U	0.10	U	0.10	U
Endosulfan II	0.10	U	1.0	U	0.10	U	0.10	U	0.10	U
4,4'-DDD	0.10	U	1.0	U	0.10	U	0.10	U	0.10	U
Endosulfan sulfate	0.78	J	1.0	U	0.19		0.10	U	0.10	U
4,4'-DDT	0.10	U	1.0	U	0.10	U	0.10	U	0.10	U
Methoxychlor	0.71	J	5.0	U	0.50	U	0.50	U	0.50	U
Endrin ketone	0.22		1.0	U	0.10	U	0.10	U	0.10	U
Endrin aldehyde	0.10	U	1.0	U	0.10	U	0.10	U	0.10	U
alpha-Chlordane	0.050	U	0.50	U	0.050	U	0.050	U	0.050	U
gamma-Chlordane	0.050	U	0.50	U	0.050	U	0.050	U	0.050	U
Toxaphene	5.0	U	50	U	5.0	U	5.0	U	5.0	U
Aroclor-1016	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Aroclor-1221	2.0	U	20	U	2.0	U	2.0	U	2.0	U
Aroclor-1232	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Aroclor-1242	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Aroclor-1248	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Aroclor-1254	1.0	U	10	U	1.0	U	1.0	U	1.0	U
Aroclor-1260	1.0	U	10	U	1.0	U	1.0	U	1.0	U

Analytical Results (Qualified Data)

Case #: 27626
Site :
Lab. :
Reviewer :
Date :

SDG : EDAM6
INSTA FOAM PRODUCTS
SWOK
S. Tobin
01/18/00

Number of Soil Samples : 6
Number of Water Samples : 5

Sample Number :	PBLKWS		PBLKWT		PBLKWU					
Sampling Location :										
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A					
pH :	7.0		7.0		7.0					
Dilution Factor :	1.0		1.0		1.0					
Pesticide/PCB Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
alpha-BHC	0.050	U	0.050	U	0.050	U				
beta-BHC	0.050	U	0.050	U	0.050	U				
delta-BHC	0.050	U	0.050	U	0.050	U				
gamma-BHC (Lindane)	0.050	U	0.050	U	0.050	U				
Heptachlor	0.050	U	0.050	U	0.015	J				
Aldrin	0.050	U	0.050	U	0.050	U				
Heptachlor epoxide	0.050	U	0.050	U	0.050	U				
Endosulfan I	0.050	U	0.050	U	0.050	U				
Dieldrin	0.10	U	0.10	U	0.10	U				
4,4'-DDE	0.10	U	0.10	U	0.10	U				
Endrin	0.10	U	0.10	U	0.10	U				
Endosulfan II	0.10	U	0.10	U	0.10	U				
4,4'-DDD	0.10	U	0.10	U	0.10	U				
Endosulfan sulfate	0.10	U	0.10	U	0.10	U				
4,4'-DDT	0.10	U	0.10	U	0.10	U				
Methoxychlor	0.50	U	0.50	U	0.50	U				
Endrin ketone	0.10	U	0.10	U	0.10	U				
Endrin aldehyde	0.10	U	0.10	U	0.10	U				
alpha-Chlordane	0.050	U	0.050	U	0.050	U				
gamma-Chlordane	0.050	U	0.050	U	0.050	U				
Toxaphene	5.0	U	5.0	U	5.0	U				
Aroclor-1016	1.0	U	1.0	U	1.0	U				
Aroclor-1221	2.0	U	2.0	U	2.0	U				
Aroclor-1232	1.0	U	1.0	U	1.0	U				
Aroclor-1242	1.0	U	1.0	U	1.0	U				
Aroclor-1248	1.0	U	1.0	U	1.0	U				
Aroclor-1254	1.0	U	1.0	U	1.0	U				
Aroclor-1260	1.0	U	1.0	U	1.0	U				

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: EDAM6 CERCLIS No: ILD 043 912 922

Case No: 27626 Site Name Location: INSTA FOAM PR

Contractor or EPA Lab: SWOK Data User: IEPA

No. of Samples: 12 Date Sampled or Data Received: 1-11-2000

Have Chain-of-Custody records been received? Yes ✓ No____
Have traffic reports or packing lists been received? Yes ✓ No____
If no, are traffic report or packing list numbers written on the chai
of-custody record? Yes ____ No____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No____
No of samples claimed: 12 No. of samples received: 12

Received by: A.C. Harvey /ESAT Date: 1-11-2000

Received by LSSS: A.C. Harvey / ESAT Date: 1-11-2000

Review started: 1-13-00 Reviewer Signature: Stephanie Tobin

Total time spent on review: 17 Date review completed: 1-18-0

Copied by: A.C. Harvey /ESAT Date: 2-1-2000

Mailed to user by: A.C. Harvey /ESAT Date: 2-1-2000

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if

PROBLEMS: Please indicate reasons why data are not suitable for yo
uses.

Received by Data Mgmt. Coordinator for Files. Data: _____

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 1 - 11 - 2000

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: INSTA FOAM PRODUCTS (IL)

CASE NUMBER: 27626 SDG NUMBER: EDAM6

Number and Type of Samples: 12 Soils / Waters

Sample Numbers: EDAM6-9 EDAN0,1 EDAP0-5

Laboratory: SWOK Hrs. for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SDG No.

Case No. 2 [illegible]

1. Matrix [illegible]	2. Preservative [illegible]	3. Region No. 5	Sampling Co. [illegible]
5. Date Shipped 11/[illegible]	Carrier Fed Ex	7. Date Received--Received by: 11/30/99 S. Hodson.	
Sampler (Name) Bob Cooper	Airbill Number 34979 [illegible]	Laboratory Contract No.	Unit Price
Sampler Signature Bob Cooper	6. Ship To: Southwest Gas Oil [illegible] 1900 [illegible] Bucker [illegible] LA 74012	8. Transfer to:	Date Received
4. Purpose** Lead: SF, PRP, ST, FED, BZ; Early Action: IA, PA, REM, RI, SI, [X] ESI; Long-Term Action: RIFS, RD, RA, O&M	ATTN: [illegible]	Received by:	
		Contract Number	Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other	B Conc.: Low Med	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other	E RAS Analysis TA (circle one) PR* 7 14 21 VOA	TA (circle one) PR* 7 14 21 BNA	TA (circle one) PR* 7 14 21 Pest/PCB	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K Sample Condition
EDAM5	5	L	G	5		X	X	5-139132	X101	11/[illegible]	MECLC9	BC	
EDAM6	[illegible]	L	G	5		X	X	5-139133	X102	11/29/99 1330	MECLD0	BC	
EDAM7	5	L	G	5		X	X	5-139134	X103	11/29/99 1330	MECLD1	BC	
EDAM8	5	L	G	5		X	X	5-139135	X104	11/[illegible] 1500	MECLD2	BC	
EDAM9	5	L	G	5		X	X	5-139136	X105	11/29/99 1[illegible]	MECLD3	BC	
EDAM0	5	L	G	5		X	X	5-139137	X106	11/29/99 1600	MECLD4	BC	
EDAM1	5	L	G	5		X	X	5-139138	X107	11/29/99 1530	MECLD5	BC	
~~EDAM2~~	~~5~~	~~L~~	~~G~~	~~5~~		X	X	5-139139	~~X108~~		MECLD6		[illegible]
EDAM3	~~5~~	~~L~~	~~G~~	~~5~~		X	X	5-139140	X109		MECLD7		[illegible]
EDAM4	[illegible]	L	G	5		X	X	5-139141	X110		MECLD8		

Shipment for Case Complete? (Y/N)	Page 1 of 2			Additional Sampler Signatures	Chain of Custody Seal Number(s)
		VOA MS/MSD Required? (Y)/N	Sample #: EDAM5		[illegible]
		BNA MS/MSD Required? (Y)/N	Sample #: EDAM5		
		Pest/PCB MS/MSD Required? (Y)/N	Sample #: EDAM5		

*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bob Cooper	[illegible]				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) S. Hodson	Date / Time 11/30/99 1930	Remarks: Is custody seal intact? (Y)/N/none .8C	

Distribution: Blue - Region Copy; White - Lab Copy for Return to SMO; Pink - SMO Copy; Yellow - Lab Copy for Return to Region

EDAM6

See Reverse for Additional Standard Instructions
**See Reverse for Purpose Code Definitions

Form 9110-2 (2/99)

CLASS-99-002

389392

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EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable):
Case No.: [illegible]

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H2SO4
   5. Ice only
   6. Other (Specify in Column D)
   N. Not preserved

2. Region No.: 5
Sampling Co.: [illegible]
Sampler (Name): Bob Cooper
Sampler Signature: Bob Cooper

3. Purpose*
Lead: [ ] SF [ ] PRP [ ] ST [ ] FED
Early Action: [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [X] ESI
Long-Term Action: [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD

4. Date Shipped: [illegible]
Carrier: Fed Ex
Airbill Number: 3497986435

5. Ship To: [illegible]
ATTN: [illegible]

6. Date Received -- Received by: 11/30/99 S. Hodson
Laboratory Contract Number:
Unit Price:
7. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
[illegible]	5	[illegible]	6	5	X				[illegible]	[illegible]		[illegible]				
[illegible]	5	[illegible]	6	5					[illegible]	[illegible]		[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]		X				[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]						[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]		X				[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	X				[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]					[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]	[illegible]	X				[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]	[illegible]					[illegible]	[illegible]		[illegible]	[illegible]			

Shipment for Case Complete? (Y/N)	Page ___ of ___	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
		[illegible]		28861 [illegible] 5802

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bob Cooper	[illegible]				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none
		S. Hodson	11/30/99 930	.8c	

DISTRIBUTION: Blue - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to S; EDAM6

EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-4 REV. 3/93

362847

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EPA United States Environmental Protection Agency
Contract Laboratory Program

ganic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable)

Case N

1. Matrix (Enter in Column A)	2. Preservative (Enter in Column D)
1. Surface Water	1. HCl
2. Ground Water	2. HNO3
3. Leachate	3. NaHSO4
4. Field QC	4. H2SO4
5. Soil/Sediment	5. Ice only
6. Oil (High only)	6. Other (Specify in Column D)
7. Waste (High only)	N. Not preserved
8. Other (Specify in Column A)	

2. Region No.: 5
Sampling Co.: [illegible]
4. Date Shipped: [illegible]
Carrier: [illegible]
6. Date Received -- Received by: 11/30/99 S. Hodson.
Sampler (Name): Bob Casper
Airbill Number: 3497986435
Laboratory Contract Number
Unit Price
Sampler Signature: Bob Casper
5. Ship To: [illegible]
7. Transfer to:
Date Received
Received by
Contract Number
Price
3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD
ATTN: [illegible]

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases Solids	Water-Miscible Liq.	Water-Immis. Liq.
[illegible]		[illegible]	[illegible]		[illegible]				[illegible]	[illegible]		MECLD4	BC			
[illegible]		[illegible]	[illegible]						[illegible]	[illegible]		MECLD4	BC			
[illegible]		[illegible]	[illegible]		[illegible]				[illegible]	[illegible]		MECLD5	BC			
[illegible]		[illegible]	[illegible]						[illegible] 053343	[illegible]		[illegible]	BC			
[illegible]		[illegible]	[illegible]		[illegible]				[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]						[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]		[illegible]				[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]		[illegible]	[illegible]						[illegible]	[illegible]		[illegible]				
[illegible]		[illegible]	[illegible]		[illegible]				[illegible]	[illegible]		[illegible]				
[illegible]		[illegible]	[illegible]						[illegible]	[illegible]		[illegible]				

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 1	[illegible]	1	[illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bob Casper	[illegible]				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		S. Hodson	11/30/99 930	.8c	

A21-012-4 REV. 3/93

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EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

362848

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. [illegible]

1. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)	2. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved	2. Region No.: 5 Sampling Co.: [illegible] Sampler (Name): Bob Cooper Sampler Signature: Bob Cooper 3. Purpose*: Lead [ ] SF [ ] PRP [ ] ST [ ] FED; Early Action [ ] CLEM [ ] PA [ ] REM [ ] RI [ ] SI [x] ESI; Long-Term Action [ ] FS [ ] RD [ ] RA [ ] O&M [ ] NPLD	4. Date Shipped: [illegible] Carrier: [illegible] Airbill Number: [illegible] 5. Ship To: [illegible] ATTN: [illegible]	6. Date Received -- Received by: 12/1/99 S. Hodson Laboratory Contract Number: Unit Price: 7. Transfer to: Date Received: Received by: Contract Number: Price:	

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EDAP1	2	1	6	6			X		5 016843 45	Cu1	[illegible]	[illegible]	BC			
* EDAP5	2	1	6	6			X		5 016846	FIS	[illegible]	[illegible]	BC			

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 1	[illegible]		[illegible]

* SDG Final Sample

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bob Cooper	[illegible]				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) S. Hodson	Date / Time 12/1/99 930	Remarks Is custody seal intact? Y/N/none 4.0c	

A21-012-16 REV.

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EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

365983

EPA United States Environmental Protection Agency
Contract Laboratory Program

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

Case No. 2[illegible]

1. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)	2. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved	2. Region No.: 5 Sampling Co.: [illegible] Sampler (Name): Bob Casper Sampler Signature: Bob Casper 3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, ESI; Long-Term Action: FS, RD, RA, O&M, NPLD	4. Date Shipped: Carrier: [illegible] Airbill Number: 3497956446 5. Ship To: South [illegible] Labs [illegible] 1900 West Abbey [illegible] [illegible] ATTN: [illegible]	6. Date Received -- Received by: 12/1/99 S. Hodson Laboratory Contract Number: Unit Price: 7. Transfer to: Date Received: Received by: Contract Number: Price:	

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection*	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
EDAP2	2	L	G	1	X				5-016861-62	G102	[illegible]	[illegible]	BC			
EDAP2	2	L	G	G		X			5-016863	G102	[illegible]	[illegible]	BC			
EDAP2	2	L	G	G			X		5-016864	G102	[illegible]	[illegible]	BC			
EDAP3	2	L	G	1	X				5-016865-66	G103	[illegible]	[illegible]	BC			
EDAP3	2	L	G	G		X			5-016867	G103	[illegible]	[illegible]	BC			
EDAP3	2	L	G	G			X		5-016868	G103	[illegible]	[illegible]	BC			
EDAP4	2	L	G	G			X		5-[illegible]	[illegible]	[illegible]		BC			

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(Y)	1 of 2	[illegible]		[illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bob Casper	[illegible]				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? Y/N/none
		S. Hodson	12/1/99 930	25	

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EPA Form 9110-2

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365984

A21-012-16 REV.

39

EPA United States Environmental Protection Agency Contract Laboratory Program

ganic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case Nr

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H2SO4
   5. Ice only
   6. Other (Specify in Column D)
   N. Not preserved

2. Region No.:

Sampling Co.:

4. Date Shipped: 11/5/99

Carrier:

6. Date Received -- Received by: 12/1/99 S. Hodson

Sampler (Name):

Airbill Number:

Laboratory Contract Number:

Unit Price:

Sampler Signature: Bob Carpe

5. Ship To:

ATTN:

7. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

3. Purpose*

Lead: ☐ SF ☐ PRP ☐ ST ☐ FED

Early Action: ☐ CLEM ☐ PA ☐ REM ☐ RI ☐ SI ☒ ESI

Long-Term Action: ☐ FS ☐ RD ☐ RA ☐ O&M ☐ NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) / Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) / Other:	E RAS Analysis: VOA	BNA	Pest/PCB	High only ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	X				[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		X			[illegible]	[illegible]		[illegible]	[illegible]			
* [illegible]	[illegible]	[illegible]	[illegible]	[illegible]	X				[illegible]	[illegible]		[illegible]	[illegible]			
* [illegible]	[illegible]	[illegible]	[illegible]	[illegible]		X			[illegible]	[illegible]		[illegible]	[illegible]			
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	X				[illegible]	[illegible]		—				
[illegible]		[illegible]	[illegible]		X				[illegible]	[illegible]		[illegible]	[illegible]			
		[illegible]	[illegible]										[illegible]			

Shipment for Case Complete? (Y/N):

Page 1 of 1

Sample(s) to be Used for Laboratory QC: [illegible]

Additional Sampler Signatures:

Chain of Custody Seal Number(s): [illegible]

* SDG Final Sample

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bob Carpe	[illegible]				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) S. Hodson	12/1/99	Date / Time 930	Remarks: Is custody seal intact? Y/N/none 6.4c

A21-012-4 REV. 3/93

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EPA Form 9110-2

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

362844

SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A / Broken Arrow, OK 74012
918-251-2858

SDG NARRATIVE

January 6, 2000

CONTRACT NO.: 68W99079

CASE NO.: 27626

SAMPLE NOS.: EDAM6, EDAM6MS, EDAM6MSD, EDAM7, EDAM8, EDAM8MS, EDAM8MSD, EDAM9, EDAN0, EDAN1, EDAP0, EDAP1, EDAP1MS, EDAP1MSD, EDAP2, EDAP3, EDAP4, EDAP5

SDG NO.: EDAM6

VOLATILE FRACTION

Six soil samples plus two sets of MS/MSDs and six water samples plus MS/MSD were submitted for Volatile Organic Analysis. The samples were analyzed by GC/MS following the OLM04.2 CLP Statement of Work.

Alternate columns used for the analysis of volatile compounds by Method OLM04.2 are the Restek XTI-5 (bonded 5% phenyl-95% dimethyl polysiloxane), 30m, 0.25mm ID, 1um film thickness (Restek #12253) and the DB624, 75m, 0.53mmID Megabore, 3um film thickness (J&W 125-1374).

An alternate trap used for the analysis of volatile compounds by method OLM04.2 is the Vocarb 3000 (Carbopack B/Carboxen 1000 & 1001; Tekmar #2-1066).

No major problems occurred during the analyses of these samples. Medium level analyses were done using sample from the %Moisture container (per instruction from EPA) as insufficient sample was sent in Encore samplers. (See internal email). Sample EDAN0 was run diluted (medium level) based on a screen analysis which is submitted in the screen data section. The dilution did not duplicate the original run. The sample was re-extracted and the analysis repeated with similar results. Sample EDAM8 (and its MS/MSD) was run diluted (medium level) in the initial run

Blanks: VBLK4 contained low-level bromomethane and 2-hexanone contamination each less than the CRQL.

Surrogates: Samples EDAM8MS and EDAM8MSD contained surrogates outside QC recovery limits. They were within limits in the sample analysis. No reanalyses were done per protocol.

Matrix Spikes: Sample EDAM6MS/MSD contained all compounds within QC recovery limits. Trichloroethene and chlorobenzene exceeded their RPD limits of 24 and 21 with values of 26 and 25 respectively for that sample. Sample EDAM8MS contained one compound outside its QC recovery limits. Benzene exceeded its RPD limit of 21 with a value of 62 for that sample. Sample EDAP1MS and EDAP1MSD each contained one compound outside QC recovery limits. 1,1-dichloroethene, benzene and toluene exceeded their RPD limits of 14, 11 and 13 with values of 21, 14 and 15 respectively.

Internal Standards: Sample EDAM6MS contained internal standard areas outside QC recovery limits. Areas were within limits in the sample analysis. No reanalysis was done per protocol. Sample EDAM8MSD contained internal standard areas outside QC recovery limits. Areas were within limits in the sample analysis. No reanalysis was done per protocol.

NOTE: All manual integrations in this data package for GC/MS Volatiles have been performed for one of the following reasons:

a. Data system missed peak during acquisition.
b. Data system improperly integrated peak.

If water samples are contained in this case, their pH data is included on the page accompanying this SDG narrative.

/

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager, or his designee, as verified by the following signature.

Harry M. Borg

Harry M. Borg
Organic Program Manager

January 6, 2000

SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A / Broken Arrow, OK 74012
918-251-2858

JAN 1 1 2000

SDG NARRATIVE
January 3, 2000

CONTRACT NO.: 68-W-99-079

CASE NO.: 27626

SAMPLE NOS.: EDAM6, EDAM6DL, EDAM6MS, EDAM6MSD, EDAM7, EDAM7DL, EADM8, EDAM8DL, EADM8MS, EADM8MSD, EDAM9, EDAN0, EDAN0DL, EDAN1, EDAP1, EDAP1MS, EDAP1MSD, EDAP2, EDAP2DL, EDAP3, EDAP4, EDAP4DL and EDAP5.

SDG NO.: EDAM6

SEMIVOLATILE FRACTION

Six soil and five water samples were submitted for semivolatile organic analyses. The samples were analyzed by GC/MS following the OLM04.2 CLP Organic Statement of Work.

The following column is used for the semivolatile analysis: Restek XTI-5 (bonded 5% phenyl-95% dimethyl polysiloxane), 30m, 0.25mm ID, 0.25um film thickness (Restek #12223).

The following samples in this SDG labeled with a DL are considered billable since these samples were analyzed at a dilution to get target compounds within instruments linear range: EDAM6DL, EDAM7DL, EDAM8DL, DEAN0DL, EDAP2DL and EDAP4DL.

No major problems were encountered during the extraction or analyses of these samples. There were several problems with the arrival of these samples: Sample EDAM5 was listed on T.R. for QC, but sample was not sent. No % moisture bottles was sent for sample EDAM7. No sample tags were submitted with the ENCORE VOA samples. VOA sampled at station location X102 was given EPA sample ID EDAM6 and at station location X013 was given EDAM7. Sample MECLD4 at location X106 was given EPA sample I.D. EDAN0. See e-mail logs for all problems associated with arrival of samples.

Sample cooler arrived at 1,2,4 & 6 degrees Celsius.

The following samples had alkanes reported and the reports are included at the end of this SDG Narrative: EDAM6, EDAM6DL, EDAM7, EDAM7DL, EADM8, EDAM8DL, EDAM9, EDAN0, EDAN0DL, EDAN1, EDAP1, EDAP2, EDAP2DL, EDAP3, EDAP4, EDAP5, SBLK1, SBLK2, SBLK3 and SBLK4.

Blanks: SBLK1 and SBLK2 had low level phthalate contamination below CRQL.

Surrogates: EDAP3 had low recovery for terphenyl-d14 at 28%.

Matrix Spike: EDAP1MS/MSD had 3 out of 9 RPDs outside of QC limits ranging from 34% to 41%. EDAM6MS/MSD had 5 out of 18 recoveries outside of QC limits ranging from 105% to 409% and 2 out of 9 RPDs outside of QC limits at 57% and 160%. EDAM8MS/MSD had all spike recoveries within QC limits.

Internal standards: All internal standards were within QC limits.

NOTE: All manual integrations in this data package for GC/MS Volatiles/Semivolatiles have been performed for one of the following reasons:

a. Data system missed peak during acquisition.
b. Data system improperly integrated peak.

If water samples are contained in this case, their pH data is included on the page accompanying this SDG narrative.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager, or his designee, as verified by the following signature.

Harry M. Borg
Organic Program Manager

January 3, 2000

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SOUTHWEST LABORATORY OF OKLAHOMA
(SWL-TULSA)
1700 West Albany, Suite A/ Broken Arrow, OK 74012
918-251-2858

SDG NARRATIVE

CONTRACT:	68W99079
CASE NO:	27626
SDG NO:	EDAM6
SAMPLES:	EDAM6, EDAM7, EDAM8, EDAM9, EDAN0, EDAN1, EDAP1, EDAP2, EDAP3, EDAP4, EDAP5, EDAM6DL, EDAM7DL, EDAM8DL, EDAM9DL, EDAN0DL, EDAN1DL, EDAP2DL, EDAP3DL
FRACTION:	Pesticide/PCB

This SDG consisted of 5 water and 6 soil samples that were analyzed for pesticide/PCBs, by EPA SOW OLM04.2. The samples were analyzed on J&W Scientific/Restek dual analytical columns (DB-17 and DB-1701/ RTX-PEST and RTX-PEST 2). The DB-17 phase consists of (50%-Phenyl) Methylpolysiloxane and the DB-1701 phase consists of (14%-Cyanopropylphenyl) Methylpolysiloxane (RTX-PEST and RTX-PEST 2 are proprietary phases). These columns were specifically designed for pesticide/PCB separation as required by the EPA's SOW. All applicable manufacturer's instructions were followed for the analysis of pesticides/PCBs. Manufacturer provided information on the performance characteristics of the columns is kept on site.

The matrix of several of these samples caused problems with their analysis by causing interference peaks in the sample chromatograms and degrading instrument performance. It should be noted that when large numbers of "interference" peaks are present in a sample, false positives of single response compounds are common. Since ECD detection is not a definitive means of detection, single-response analytes in the presence of interference were reported per the method (if a peak is within a target analyte's retention time window on both columns, then it was reported as that target analyte). This alleviates the possibility that false negative results will be reported. However, this may lead to false positives. The end data user should be aware of the limitations of the method and take appropriate care.

All of the samples in this SDG (except EDAP1, EDAP4, and EDAP5) were initially analyzed at a 10x dilution due to the color of their extracts. When analyzed undiluted these samples caused breakdown of pesticides in the calibration verification standards following their injection (making the data non-compliant with OLM04.2 continuing calibration criteria). The 10x dilution analyses of these samples met OLM04.2 continuing calibration criteria. A non-compliant undiluted analysis and a compliant 10x dilution analysis were performed for all the samples in this SDG (except EDAP1, EDAP4, and EDAP5). Forms for the compliant and the non-compliant data have been submitted. The extracts for samples EDAP1, EDAP4, and EDAP5 were clear and these samples were analyzed undiluted with compliant ending standards.

Blanks:	No corrective action required.
Surrogates:	Several sample recoveries were outside of the advisory limits, no corrective action was taken.
Matrix Spikes:	Several recoveries were outside of the advisory limits, no corrective action was taken.

The following tables list the total nanograms injected on column for each calibration standard based upon amount injected, 0.5µL, 1µL, or 2µL:

RESOLUTION CHECK

Compounds	Total nanograms (0.5μL)	Total nanograms (1μL)	Total nanograms (2μL)
gamma-Chlordane	0.005	0.01	0.02
Endosulfan I	0.005	0.01	0.02
4,4'-DDE	0.01	0.02	0.04
Dieldrin	0.01	0.02	0.04
Endosulfan Sulfate	0.01	0.02	0.04
Endrin Ketone	0.01	0.02	0.04
Methoxychlor	0.5	0.1	0.2
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.01	0.02	0.04

PERFORMANCE EVALUATION

Compounds	Total nanograms (0.5μL)	Total nanograms (1μL)	Total nanograms (2μL)
gamma-BHC	0.005	0.01	0.02
alpha-BHC	0.005	0.01	0.02
4.4'-DDT	0.05	0.1	.02
beta-BHC	0.005	0.01	0.02
Endrin	0.025	0.05	0.1
Methoxychlor	0.125	0.25	0.5
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.01	0.02	0.04

INDIVIDUAL STANDARD MIXTURE A – LOW

Compounds	Total nanograms (0.5μL)	Total nanograms (1μL)	Total nanograms (2μL)
alpha-BHC	0.0025	0.005	0.01
Heptachlor	0.0025	0.005	0.01
gamma-BHC	0.0025	0.005	0.01
Endosulfan I	0.0025	0.005	0.01
Dieldrin	0.005	0.01	0.02
Endrin	0.005	0.01	0.02
4,4'-DDD	0.005	0.01	0.02
4,4'-DDT	0.005	0.01	0.02
Methoxychlor	0.025	0.05	0.1
Tetrachloro-m-xylene	0.0025	0.005	0.01
Decachlorobiphenyl	0.005	0.01	0.02

INDIVIDUAL STANDARD MIXTURE B -- LOW

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.0025	0.005	0.01
delta-BHC	0.0025	0.005	0.01
Aldrin	0.0025	0.005	0.01
Heptachlor epoxide	0.0025	0.005	0.01
alpha-Chlordane	0.0025	0.005	0.01
gamma-Chlordane	0.0025	0.005	0.01
4,4'-DDE	0.005	0.01	0.02
Endosulfan sulfate	0.005	0.01	0.02
Endrin aldehyde	0.005	0.01	0.02
Endrin ketone	0.005	0.01	0.02
Endosulfan II	0.005	0.01	0.02
Tetrachloro-m-xylene	0.0025	0.005	0.01
Decachlorobiphenyl	0.005	0.01	0.02

INDIVIDUAL STANDARD MIXTURE A -- MEDIUM

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
alpha-BHC	0.01	0.02	0.04
Heptachlor	0.01	0.02	0.04
gamma-BHC	0.01	0.02	0.04
Endosulfan I	0.01	0.02	0.04
Dieldrin	0.02	0.04	0.08
Endrin	0.02	0.04	0.08
4,4'-DDD	0.02	0.04	0.08
4,4'-DDT	0.02	0.04	0.08
Methoxychlor	0.1	0.2	0.4
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.02	0.04	0.08

INDIVIDUAL STANDARD MIXTURE B -- MEDIUM

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.01	0.02	0.04
delta-BHC	0.01	0.02	0.04
Aldrin	0.01	0.02	0.04
Heptachlor epoxide	0.01	0.02	0.04
alpha-Chlordane	0.01	0.02	0.04
gamma-Chlordane	0.01	0.02	0.04
4,4'-DDE	0.02	0.04	0.08
Endosulfan sulfate	0.02	0.04	0.08
Endrin aldehyde	0.02	0.04	0.08
Endrin ketone	0.02	0.04	0.08
Endosulfan II	0.02	0.04	0.08
Tetrachloro-m-xylene	0.01	0.02	0.04
Decachlorobiphenyl	0.02	0.04	0.08

INDIVIDUAL STANDARD MIXTURE A -- HIGH

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
alpha-BHC	0.04	0.08	0.16
Heptachlor	0.04	0.08	0.16
gamma-BHC	0.04	0.08	0.16
Endosulfan I	0.04	0.08	0.16
Dieldrin	0.08	0.16	0.32
Endrin	0.08	0.16	0.32
4,4'-DDD	0.08	0.16	0.32
4,4'-DDT	0.08	0.16	0.32
Methoxychlor	0.4	0.8	1.6
Tetrachloro-m-xylene	0.04	0.08	0.16
Decachlorobiphenyl	0.08	0.16	0.32

INDIVIDUAL STANDARD MIXTURE B -- HIGH

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
beta-BHC	0.04	0.08	0.16
delta-BHC	0.04	0.08	0.16
Aldrin	0.04	0.08	0.16
Heptachlor epoxide	0.04	0.08	0.16
alpha-Chlordane	0.04	0.08	0.16
gamma-Chlordane	0.04	0.08	0.16
4,4'-DDE	0.08	0.16	0.32
Endosulfan sulfate	0.08	0.16	0.32
Endrin aldehyde	0.08	0.16	0.32
Endrin ketone	0.08	0.16	0.32
Endosulfan II	0.08	0.16	0.32
Tetrachloro-m-xylene	0.04	0.08	0.16
Decachlorobiphenyl	0.08	0.16	0.32

MULTI-RESPONSE STANDARD MIXTURES

Compounds	Total nanograms (0.5µL)	Total nanograms (1µL)	Total nanograms (2µL)
Aroclor-1016	0.05	0.1	0.2
Aroclor-1221	0.1	0.2	0.4
Aroclor-1232	0.05	0.1	0.2
Aroclor-1242	0.05	0.1	0.2
Aroclor-1248	0.05	0.1	0.2
Aroclor-1254	0.05	0.1	0.2
Aroclor-1260	0.05	0.1	0.2
Toxaphene	0.25	0.5	1.0

All manual integrations in this data package for GC/EC have been performed for one of the following reasons:

a. Data system missed a peak during processing.
b. Data system improperly integrated a peak.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Drew Cowan
GC Supervisor
Dc

December 28, 1999

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/29/99 DATA FILE: L41613.D

SAMPLE ID: EDAM8 MATRIX: SOIL
LAB ID: 41246.03 DATE ANALYZED: 12/06/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	000096-14-0	PENTANE, 3-METHYL-	6.94	1153
2)	000110-54-3	HEXANE	7.38	954
3)	000096-37-7	CYCLOPENTANE, METHYL-	8.11	3478
4)	000922-28-1	HEPTANE, 3,4-DIMETHYL-	9.18	2060
5)	000108-87-2	CYCLOHEXANE, METHYL-	10.23	14094
6)	015869-96-2	OCTANE, 4,5-DIMETHYL-	10.86	3354
7)	000592-27-8	HEPTANE, 2-METHYL-	11.01	2367
8)	000619-99-8	HEXANE, 3-ETHYL-	11.16	716
9)	000930-89-2	CYCLOPENTANE, 1-ETHYL-2-METHYL-, CI	11.56	768
10)	006876-23-9	CYCLOHEXANE, 1,2-DIMETHYL-, TRANS-	11.73	1965
11)	000624-29-3	CYCLOHEXANE, 1,4-DIMETHYL-, CIS-	11.86	1114
12)	003221-61-2	OCTANE, 2-METHYL-	12.16	1041
13)	001678-91-7	CYCLOHEXANE, ETHYL-	12.39	8604
)	002234-75-5	CYCLOHEXANE, 1,2,4-TRIMETHYL-	12.71	681
15)	006236-88-0	CYCLOHEXANE, 1-ETHYL-4-METHYL-, TRA	13.33	6073
16)	004923-78-8	CYCLOHEXANE, 1-ETHYL-2-METHYL-, TRA	13.65	3538
17)	001678-92-8	CYCLOHEXANE, PROPYL-	14.01	4001
18)	002847-72-5	DECANE, 4-METHYL-	15.17	7690
19)	001678-98-4	CYCLOHEXANE, (2-METHYLPROPYL)-	15.45	13003
20)	017301-23-4	UNDECANE, 2,6-DIMETHYL-	17.44	8352

RESULTS REPORTED ON WET WEIGHT BASIS

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 01/06/00 DATA FILE: L41609.D

SAMPLE ID: EDAN0 MATRIX: SOIL
LAB ID: 41246.05 DATE ANALYZED: 12/06/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	000124-18-5	DECANE	14.84	1271
2)	001120-21-4	UNDECANE	16.13	953

RESULTS REPORTED ON WET WEIGHT BASIS

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE:	12/29/99	DATA FILE:	N37531.D
SAMPLE ID:	EDAN1	MATRIX:	SOIL
LAB ID:	41246.06	DATE ANALYZED:	12/09/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	000096-14-0	PENTANE, 3-METHYL-	5.86	5

RESULTS REPORTED ON WET WEIGHT BASIS

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE:	12/29/99	DATA FILE:	L41631.D
SAMPLE ID:	EDAP3	MATRIX:	WATER
LAB ID:	41263.04	DATE ANALYZED:	12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/L)
1)	005911-04-6	NONANE, 3-METHYL-	15.15	6
2)	017301-23-4	UNDECANE, 2,6-DIMETHYL-	17.43	12
3)	026730-14-3	TRIDECANE, 7-METHYL-	18.10	12

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE:	12/16/99	DATA FILE:	H9120716.D
SAMPLE ID:	EDAM6	MATRIX:	SOIL
LAB ID:	41246.01	DATE ANALYZED:	12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	000629-50-5	TRIDECANE	8.64	363
2)	001120-21-4	UNDECANE	10.17	602
3)	001921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	11.69	639
4)	054105-67-8	HEPTADECANE, 2,6-DIMETHYL-	12.12	995
5)	054832-82-5	TRICYCLO[4.3.0.07,9]NONANE, 2,2,5,5	20.34	700

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE:	12/17/99	DATA FILE:	H9120803.D
SAMPLE ID:	EDAM6DL	MATRIX:	SOIL
LAB ID:	41246.01DL	DATE ANALYZED:	12/08/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	001921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	12.09	1659
~~2)~~	~~054699-29-5~~	~~CYCLOHEXANE, (ETHOXYMETHOXY)-~~	~~16.33~~	~~3354~~ gk 12-22-99

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/16/99 DATA FILE: H9120717.D

SAMPLE ID: EDAM7 MATRIX: SOIL
LAB ID: 41246.02 DATE ANALYZED: 12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	001120-21-4	UNDECANE	6.39	402
2)	017301-23-4	UNDECANE, 2,6-DIMETHYL-	7.72	406
3)	000181-15-7	SPIRO[5.6]DODECANE	8.16	498
4)	026730-14-3	TRIDECANE, 7-METHYL-	8.35	688
5)	000629-50-5	TRIDECANE	8.64	1060
6)	000544-76-3	HEXADECANE	10.17	689
7)	000544-76-3	HEXADECANE	11.32	456
8)	000629-50-5	TRIDECANE	11.69	571
9)	000629-59-4	TETRADECANE	12.09	554
10)	054105-67-8	HEPTADECANE, 2,6-DIMETHYL-	12.13	1205
11)	000629-62-9	PENTADECANE	12.81	445
12)	000629-92-5	NONADECANE	13.50	430
13)	000629-92-5	NONADECANE	15.37	430
14)	000112-95-8	EICOSANE	15.93	464
15)	054833-48-6	HEPTADECANE, 2,6,10,15-TETRAMETHYL-	16.49	475
16)	000629-97-0	DOCOSANE	17.01	613
17)	000112-95-8	EICOSANE	17.51	568
18)	000593-45-3	OCTADECANE	18.47	784
19)	000629-94-7	HENEICOSANE	18.94	589
20)	000629-94-7	HENEICOSANE	22.31	1104

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/17/99 DATA FILE: H9120804.D

SAMPLE ID: EDAM7 DL MATRIX: SOIL
LAB ID: 41246.02 DATE ANALYZED: 12/08/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	001120-21-4	UNDECANE	6.36	455
2)	013287-23-5	HEPTADECANE, 8-METHYL-	8.14	696
3)	062016-34-6	OCTANE, 2,3,7-TRIMETHYL-	8.33	1014
4)	000629-50-5	TRIDECANE	8.62	1403
5)	000629-62-9	PENTADECANE	10.14	756
6)	000544-76-3	HEXADECANE	11.29	643
7)	062108-26-3	DECANE, 2,6,8-TRIMETHYL-	11.66	859
8)	000629-78-7	HEPTADECANE	12.06	957
9)	054105-67-8	HEPTADECANE, 2,6-DIMETHYL-	12.10	1528
10)	007098-21-7	TRITETRACONTANE	12.37	435
11)	000593-45-3	OCTADECANE	12.78	617
12)	000629-92-5	NONADECANE	13.47	580
	000112-95-8	EICOSANE	14.12	510
14)	000629-97-0	DOCOSANE	15.34	707
15)	000593-45-3	OCTADECANE	15.90	627
16)	000629-78-7	HEPTADECANE	16.46	557
17)	000629-78-7	HEPTADECANE	16.98	788
18)	000112-95-8	EICOSANE	17.50	675
19)	000593-45-3	OCTADECANE	17.98	861
20)	017312-57-1	DODECANE, 3-METHYL-	19.36	544

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/20/99 DATA FILE: V9121011.D

SAMPLE ID: EDAM8 MATRIX: SOIL
LAB ID: 41246.03 DATE ANALYZED: 12/10/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	013151-35-4	DECANE, 5-METHYL-	3.85	26578
2)	017301-23-4	UNDECANE, 2,6-DIMETHYL-	5.07	29511
3)	003891-98-3	DODECANE, 2,6,10-TRIMETHYL-	5.77	29534
4)	000629-62-9	PENTADECANE	7.11	28256
5)	074645-98-0	DODECANE, 2,7,10-TRIMETHYL-	7.19	81025
6)	000629-78-7	HEPTADECANE	7.51	42342
7)	035599-77-0	TRIDECANE, 1-IODO-	7.56	32394
8)	001795-15-9	CYCLOHEXANE, OCTYL-	8.18	28532
9)	018344-37-1	HEPTADECANE, 2,6,10,14-TETRAMETHYL-	8.31	99584
10)	000112-40-3	DODECANE	9.42	36479
11)	017301-28-9	UNDECANE, 3,6-DIMETHYL-	9.84	23098
12)	017312-81-1	UNDECANE, 3,5-DIMETHYL-	10.48	135110
13)	000629-62-9	PENTADECANE	11.01	26114
14)	001921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	11.07	148220
15)	017312-62-8	DECANE, 5-PROPYL-	11.44	24381
16)	019218-94-1	TETRADECANE, 1-IODO-	11.52	28079
17)	054833-48-6	HEPTADECANE, 2,6,10,15-TETRAMETHYL-	12.80	39320
18)	000629-59-4	TETRADECANE	12.87	28454
19)	000112-95-8	EICOSANE	13.71	28072
20)	000629-62-9	PENTADECANE	15.28	24002

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/20/99 DATA FILE: J9121318.D

SAMPLE ID: EDAM8DL MATRIX: SOIL
LAB ID: 41246.03DL DATE ANALYZED: 12/13/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	017301-94-9	NONANE, 4-METHYL-	5.13	79453
2)	006975-98-0	DECANE, 2-METHYL-	6.51	64149
3)	001606-08-2	CYCLOPENTYLCYCLOHEXANE	7.48	53017
4)	029053-04-1	CYCLOPENTANE, 1-METHYL-3-(2-METHYLP	8.11	59089
5)	006044-71-9	DODECANE, 6-METHYL-	8.38	163810
6)	061142-20-9	CYCLOHEXANE, (4-METHYLPENTYL)-	8.75	134900
7)	000504-44-9	HEXADECANE, 2,6,11,15-TETRAMETHYL-	9.06	223260
8)	000629-50-5	TRIDECANE	9.35	103100
9)	007098-22-8	TETRATETRACONTANE	9.55	79601
10)	003891-98-3	DODECANE, 2,6,10-TRIMETHYL-	10.16	83150
11)	000544-76-3	HEXADECANE	10.98	111480
12)	004292-19-7	DODECANE, 1-IODO-	12.14	54326
13)	018435-22-8	TETRADECANE, 3-METHYL-	12.63	134310
	000629-78-7	HEPTADECANE	13.04	77517
15)	001921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	13.09	404070
16)	000629-59-4	TETRADECANE	13.46	60534
17)	000593-45-3	OCTADECANE	13.82	87886
18)	000630-06-8	HEXATRIACONTANE	13.89	313160
19)	007225-66-3	TRIDECANE, 7-HEXYL-	14.50	96764
20)	000629-92-5	NONADECANE	14.56	61948

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/16/99 DATA FILE: H9120719.D

SAMPLE ID: EDAM9 MATRIX: SOIL
LAB ID: 41246.04 DATE ANALYZED: 12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	001120-21-4	UNDECANE	6.39	276
2)	029053-04-1	CYCLOPENTANE, 1-METHYL-3-(2-METHYLP	7.46	275
3)	017301-23-4	UNDECANE, 2,6-DIMETHYL-	7.73	438
4)	004292-75-5	CYCLOHEXANE, HEXYL-	8.06	400
5)	026730-14-3	TRIDECANE, 7-METHYL-	8.36	585
6)	000629-50-5	TRIDECANE	8.64	425
7)	001795-15-9	CYCLOHEXANE, OCTYL-	9.13	390
8)	003891-98-3	DODECANE, 2,6,10-TRIMETHYL-	10.17	643
9)	000544-76-3	HEXADECANE	11.32	263
10)	000638-36-8	HEXADECANE, 2,6,10,14-TETRAMETHYL-	11.70	730
11)	001921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	12.13	751
12)	000112-95-8	EICOSANE	14.15	353
13)	000629-97-0	DOCOSANE	15.37	467
4)	000112-95-8	EICOSANE	15.94	349
15)	000593-45-3	OCTADECANE	16.49	622
16)	000629-99-2	PENTACOSANE	17.02	465
17)	000593-45-3	OCTADECANE	17.52	579
18)	000593-45-3	OCTADECANE	18.01	356
19)	000630-01-3	HEXACOSANE	18.48	557
20)	000629-97-0	DOCOSANE	18.93	399

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/20/99 DATA FILE: H9120720.D

SAMPLE ID: EDAN0 MATRIX: SOIL
LAB ID: 41246.05 DATE ANALYZED: 12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	000124-18-5	DECANE	5.13	1778
2)	001120-21-4	UNDECANE	6.40	2974
3)	017301-23-4	UNDECANE, 2,6-DIMETHYL-	7.74	2868
4)	004292-75-5	CYCLOHEXANE, HEXYL-	8.07	2645
5)	006117-97-1	DODECANE, 4-METHYL-	8.23	1847
6)	002847-72-5	DECANE, 4-METHYL-	8.37	4218
7)	000629-50-5	TRIDECANE	8.65	8474
8)	000629-50-5	TRIDECANE	8.84	2070
9)	000629-78-7	HEPTADECANE	12.11	2630
10)	001921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	12.14	1732
11)	000593-45-3	OCTADECANE	12.83	1989
12)	000629-92-5	NONADECANE	13.51	1729
13)	000629-97-0	DOCOSANE	15.38	2722
	000629-78-7	HEPTADECANE	15.94	2145
15)	000629-92-5	NONADECANE	16.50	1920
16)	000638-67-5	TRICOSANE	17.01	1877
17)	000112-95-8	EICOSANE	18.48	4232
18)	000630-03-5	NONACOSANE	18.94	3049
19)	000593-49-7	HEPTACOSANE	19.38	3154
20)	000629-94-7	HENEICOSANE	19.81	1818

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/17/99 DATA FILE: H9120806.D

SAMPLE ID: EDAN0DL MATRIX: SOIL
LAB ID: 41246.05 DATE ANALYZED: 12/08/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	000124-18-5	DECANE	5.10	2202
2)	017301-23-4	UNDECANE, 2,6-DIMETHYL-	7.70	1986
3)	004292-75-5	CYCLOHEXANE, HEXYL-	8.03	1573
4)	026730-14-3	TRIDECANE, 7-METHYL-	8.33	2935
5)	000629-50-5	TRIDECANE	8.61	6082
6)	000629-62-9	PENTADECANE	10.15	2036
7)	000544-76-3	HEXADECANE	11.29	3181
8)	000544-76-3	HEXADECANE	11.67	2154
9)	000629-78-7	HEPTADECANE	12.05	5560
10)	001921-70-6	PENTADECANE, 2,6,10,14-TETRAMETHYL-	12.10	3742
11)	000112-95-8	EICOSANE	12.78	3821
12)	000629-92-5	NONADECANE	13.46	3183
13)	000112-95-8	EICOSANE	14.12	2305
4)	000629-94-7	HENEICOSANE	14.74	2020
15)	000629-97-0	DOCOSANE	15.34	2622
16)	000629-97-0	DOCOSANE	15.91	1916
17)	000630-01-3	HEXACOSANE	16.45	1730
18)	000544-85-4	DOTRIACONTANE	16.98	1869
19)	000629-97-0	DOCOSANE	17.49	1595
20)	000629-78-7	HEPTADECANE	17.98	1688

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/16/99 DATA FILE: H9120721.D

SAMPLE ID: EDAN1 MATRIX: SOIL
LAB ID: 41246.06 DATE ANALYZED: 12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
~~1)~~	~~034075-28-9~~	~~BUTANE, 2,3-DIMETHYL-2-NITRO~~	~~3.09~~	~~280~~
~~2)~~	~~034075-28-6~~	~~BUTANE, 2,3-DIMETHYL-2-NITRO-~~	~~3.40~~	~~215~~
3)	000107-83-5	PENTANE, 2-METHYL-	5.83	893
4)	000629-59-4	TETRADECANE	9.61	220
5)	000294-62-2	CYCLODODECANE	12.06	358
6)	000629-59-4	TETRADECANE	12.09	236
7)	003891-98-3	DODECANE, 2,6,10-TRIMETHYL-	12.13	180
8)	000593-45-3	OCTADECANE	12.82	204
9)	000630-06-8	HEXATRIACONTANE	13.50	197
10)	000629-62-9	PENTADECANE	14.78	206
11)	000112-95-8	EICOSANE	15.37	268
12)	007225-64-1	HEPTADECANE, 9-OCTYL-	15.94	320
13)	000629-78-7	HEPTADECANE	16.50	434
14)	000544-76-3	HEXADECANE	17.02	329
15)	000544-76-3	HEXADECANE	17.52	223
16)	000629-78-7	HEPTADECANE	18.01	386
17)	000629-78-7	HEPTADECANE	18.48	291
18)	000630-01-3	HEXACOSANE	18.93	311
19)	000544-76-3	HEXADECANE	19.37	364
20)	017312-55-9	DECANE, 3,8-DIMETHYL-	19.81	663

12-22-99

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/08/99 DATA FILE: F9120717.D

SAMPLE ID: EDAP1 MATRIX: WATER
LAB ID: 41263.02 DATE ANALYZED: 12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/L)
1)	051655-64-2	NONANE, 3-METHYLENE-	5.28	9

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/09/99 DATA FILE: F9120723.D

SAMPLE ID: EDAP2 MATRIX: WATER
LAB ID: 41263.03 DATE ANALYZED: 12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/L)
1)	007667-55-2	CYCLOHEXANE, 1,2,3-TRIMETHYL-, (1.A	6.72	8
2)	054411-00-6	CYCLOHEXANE, 1-METHYL-4-(1-METHYLBU	8.33	6
3)	017301-23-4	UNDECANE, 2,6-DIMETHYL-	8.59	14
4)	004292-75-5	CYCLOHEXANE, HEXYL-	8.96	8
5)		UNKNOWN ALKANE: CYCLIC	10.11	6
6)	003891-98-3	DODECANE, 2,6,10-TRIMETHYL-	10.37	18
7)	029799-19-7	CYCLOHEXANE, 1-(1,5-DIMETHYLHEXYL)-	10.61	7
8)	001795-15-9	CYCLOHEXANE, OCTYL-	11.15	5
9)	055045-12-0	TETRADECANE, 4,11-DIMETHYL-	11.21	16
10)	001560-97-0	DODECANE, 2-METHYL-	12.15	11
11)	000504-44-9	HEXADECANE, 2,6,11,15-TETRAMETHYL-	12.85	30

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/08/99 DATA FILE: F9120808.D

SAMPLE ID: EDAP2DL MATRIX: WATER
LAB ID: 41263.03DL DATE ANALYZED: 12/08/99

	CAS #	COMPOUND	RT	EST. CONC (ug/L)
1)	017301-23-4	UNDECANE, 2,6-DIMETHYL-	8.49	15
2)	003178-23-2	CYCLOHEXANE, 1,1'-METHYLENEBIS-	8.86	9
3)	017312-60-6	UNDECANE, 6-ETHYL-	9.17	9
4)	000696-29-7	CYCLOHEXANE, (1-METHYLETHYL)-	10.01	5
5)	003891-98-3	DODECANE, 2,6,10-TRIMETHYL-	10.27	16
6)	029799-19-7	CYCLOHEXANE, 1-(1,5-DIMETHYLHEXYL)-	10.50	6
7)	013287-21-3	TRIDECANE, 6-METHYL-	10.54	6
8)	003178-23-2	CYCLOHEXANE, 1,1'-METHYLENEBIS-	11.05	6
9)	000544-76-3	HEXADECANE	11.09	17
10)	062016-18-6	OCTANE, 5-ETHYL-2-METHYL-	12.75	21

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/08/99 DATA FILE: F9120722.D

SAMPLE ID: EDAP3 MATRIX: WATER
LAB ID: 41263.04 DATE ANALYZED: 12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/L)
~~1)~~	~~018495-30-2~~	~~PROPANE, 1,1,2,3-TETRACHLORO-~~	~~5.23~~	~~6~~ 12/9/99
2)	017301-23-4	UNDECANE, 2,6-DIMETHYL-	8.60	10
3)	000294-62-2	CYCLODODECANE	8.98	5
4)	005911-04-6	NONANE, 3-METHYL-	9.26	4
5)	003891-98-3	DODECANE, 2,6,10-TRIMETHYL-	10.38	13
6)	000544-76-3	HEXADECANE	11.21	10
7)	000544-76-3	HEXADECANE	12.86	18

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/08/99 DATA FILE: F9120720.D

SAMPLE ID: EDAP4 MATRIX: WATER
LAB ID: 41263.05 DATE ANALYZED: 12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/L)
1)	000589-53-7	HEPTANE, 4-METHYL-	5.20	3
2)	041977-40-6	CYCLOPROPANE, 1-METHYL-1-(1-METHYLE	5.25	9
~~3)~~	~~002679-87-0~~	~~BUTANE, 2-ETHOXY-~~	~~6.61~~	~~5~~

12/9/99

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE:	12/08/99	DATA FILE:	F9120721.D
SAMPLE ID:	EDAP5	MATRIX:	WATER
LAB ID:	41263.06	DATE ANALYZED:	12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/L)
1)	074630-07-2	OCTANE, 3-METHYL-6-METHYLENE-	5.26	7

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/08/99 DATA FILE: H9120715.D

SAMPLE ID: SBLK1 MATRIX: SOIL
LAB ID: BL1130SE DATE ANALYZED: 12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	002213-23-2	HEPTANE, 2,4-DIMETHYL-	3.32	102
2)	000594-38-7	BUTANE, 2-IODO-2-METHYL-	3.37	96
3)	002216-30-0	HEPTANE, 2,5-DIMETHYL-	3.44	192
4)	000619-99-8	HEXANE, 3-ETHYL-	3.66	236
5)	000111-84-2	NONANE	3.74	87
6)	006783-92-2	CYCLOHEXANE, 1,1,2,3-TETRAMETHYL-	3.78	71
7)	002613-61-8	HEPTANE, 2,4,6-TRIMETHYL-	4.42	79
8)	004126-78-7	CYCLOHEPTANE, METHYL-	10.30	67

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/08/99 DATA FILE: F9120713.D

SAMPLE ID: SBLK2 MATRIX: WATER
LAB ID: BL1202WB DATE ANALYZED: 12/07/99

	CAS #	COMPOUND	RT	EST. CONC (ug/L)
1)	027035-39-8	1,2,5,6-DIEPOXYCYCLOOCTANE	3.58	4

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/13/99 DATA FILE: V9121010.D

SAMPLE ID: SBLK3 MATRIX: SOIL
LAB ID: BL1209SC DATE ANALYZED: 12/10/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	004390-04-9	NONANE, 2,2,4,4,6,8,8-HEPTAMETHYL-	22.81	3214

SOUTHWEST LABORATORY OF OKLAHOMA
GC/MS LABORATORY : ALKANE REPORT

REPORT DATE: 12/14/99 DATA FILE: J9121315.D

SAMPLE ID: SBLK4 MATRIX: SOIL
LAB ID: BL1209SC DATE ANALYZED: 12/13/99

	CAS #	COMPOUND	RT	EST. CONC (ug/Kg)
1)	000292-64-8	CYCLOOCTANE	11.12	20764

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK2	97	107	104		0
02	EDAP0	98	106	95		0
03	EDAP1	90	105	103		0
04	EDAP2	94	106	99		0
05	EDAP3	94	105	98		0
06	EDAP4	96	108	105		0
07	EDAP5	96	110	103		0
08	EDAP1MS	97	108	100		0
09	EDAP1MSD	96	111	98		0
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11						
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30						

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK4	102	96	100		0
02	EDAM9	115	99	104		0
03	EDAN1	112	106	98		0
04	EDAM7	108	110	95		0
05	EDAM6	126	91	101		0
06	EDAM6MS	133	90	103		0
07	EDAM6MSD	121	97	89		0
08	VHBLK1	113	110	89		0
09						
10						
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Level:(low/med) MED

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLK1	98	100	91		0
02	VBLK3	99	107	100		0
03	EDAN0	100	94	100		0
04	EDAM8	112	98	94		0
05	EDAM8MS	117	116 *	104		1
06	EDAM8MSD	118	119 *	102		1
07						
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix Spike - EPA Sample NO.: EDAM6 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	74	0	75	101	59-172
Trichloroethene	74	0	47	64	62-137
Benzene	74	4	81	104	66-142
Toluene	74	0	86	116	59-139
Chlorobenzene	74	0	64	86	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	54	57	106	5	22	59-172
Trichloroethene	54	45	83	26 *	24	62-137
Benzene	54	71	124	18	21	66-142
Toluene	54	75	139	18	21	59-139
Chlorobenzene	54	60	111	25 *	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix Spike - EPA Sample NO.: EDAM8 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	7900	0	8000	101	59-172
Trichloroethene	7900	0	11000	139 *	62-137
Benzene	7900	0	11000	139	66-142
Toluene	7900	0	11000	139	59-139
Chlorobenzene	7900	0	10000	127	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	7900	7300	92	9	22	59-172
Trichloroethene	7900	9200	116	18	24	62-137
Benzene	7900	5800	73	62 *	21	66-142
Toluene	7900	10000	127	9	21	59-139
Chlorobenzene	7900	9400	119	7	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS: _____

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix Spike - EPA Sample NO.: EDAP1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	59	118	61-145
Trichloroethene	50	0	67	134 *	71-120
Benzene	50	0	61	122	76-127
Toluene	50	0	57	114	76-125
Chlorobenzene	50	0	58	116	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	48	96	21 *	14	61-145
Trichloroethene	50	73	146 *	9	14	71-120
Benzene	50	53	106	14 *	11	76-127
Toluene	50	49	98	15 *	13	76-125
Chlorobenzene	50	51	102	13	13	75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 3 out of 5 outside limits
Spike Recovery: 2 out of 10 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab File ID: L41604 Lab Sample ID: L991206A

Date Analyzed: 12/06/99 Time Analyzed: 1427

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP72L

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EDAN0	41246.05	L41609	1737
02	EDAM8	41246.03	L4I613	1927
03				
04				
05				
06				
07				
08				
09				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab File ID: L41626 Lab Sample ID: L991207A

Date Analyzed: 12/07/99 Time Analyzed: 1255

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP72L

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EDAP0	41263.01	L41628	1540
02	EDAP1	41263.02	L41629	1608
03	EDAP2	41263.03	L41630	1636
04	EDAP3	41263.04	L41631	1703
05	EDAP4	41263.05	L41632	1731
06	EDAP5	41263.06	L41633	1759
07	EDAP1MS	41263.02MS	L41634	1827
08	EDAP1MSD	41263.02MSD	L41635	1854
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab File ID: L41651 Lab Sample ID: L991208B

Date Analyzed: 12/08/99 Time Analyzed: 1147

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: HP72L

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EDAM8MS	41246.03MS	L41669	2103
02	EDAM8MSD	41246.03MSD	L41670	2131
03				
04				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab File ID: N37526 Lab Sample ID: N991209A

Date Analyzed: 12/09/99 Time Analyzed: 1417

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP71N

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EDAM9	41246.04	N37527	1503
02	EDAN1	41246.06	N37531	1706
03	EDAM7	41246.02	N37532	1733
04	EDAM6	41246.01	N37534	1823
05	EDAM6MS	41246.01MS	N37536	1913
06	EDAM6MSD	41246.01MSD	N37538	2008
07	VHBLK1	VHBLK1	N37539	2035
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: L991206A

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41604.D

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

% Moisture: not dec._____ Date Analyzed: 12/06/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	U
75-35-4	1,1-Dichloroethene	1300	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	
67-64-1	Acetone	1300	U
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl-tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	1300	U
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: L991206A

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41604.D

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

% Moisture: not dec._____ Date Analyzed: 12/06/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-Pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene	1300	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: L991206A

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41604.D

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

% Moisture: not dec._____ Date Analyzed: 12/06/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (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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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: L991207A

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41626.D

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

% Moisture: not dec._____ Date Analyzed: 12/07/99

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: L991207A

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41626.D

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

% Moisture: not dec._____ Date Analyzed: 12/07/99

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/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: L991207A

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41626.D

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

% Moisture: not dec._____ Date Analyzed: 12/07/99

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/L

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

EPA SAMPLE NO.

VBLK3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: L991208B

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41651.D

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

% Moisture: not dec._____ Date Analyzed: 12/08/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1300	U
74-87-3	Chloromethane	1300	U
75-01-4	Vinyl Chloride	1300	U
74-83-9	Bromomethane	1300	U
75-00-3	Chloroethane	1300	U
75-69-4	Trichlorofluoromethane	1300	
75-35-4	1,1-Dichloroethene	1300	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1300	U
67-64-1	Acetone	840	J
75-15-0	Carbon Disulfide	1300	U
79-20-9	Methyl Acetate	1300	U
75-09-2	Methylene Chloride	1300	U
156-60-5	trans-1,2-Dichloroethene	1300	U
1634-04-4	Methyl-tert-Butyl Ether	1300	U
75-34-3	1,1-Dichloroethane	1300	U
156-59-2	cis-1,2-Dichloroethene	1300	U
78-93-3	2-Butanone	1300	U
67-66-3	Chloroform	1300	U
71-55-6	1,1,1-Trichloroethane	1300	U
110-82-7	Cyclohexane	1300	U
56-23-5	Carbon Tetrachloride	1300	U
71-43-2	Benzene	1300	U
107-06-2	1,2-Dichloroethane	1300	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: L991208B

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41651.D

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

% Moisture: not dec._____ Date Analyzed: 12/08/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1300	U
108-87-2	Methylcyclohexane	1300	U
78-87-5	1,2-Dichloropropane	1300	U
75-27-4	Bromodichloromethane	1300	U
10061-01-5	cis-1,3-Dichloropropene	1300	U
108-10-1	4-Methyl-2-Pentanone	1300	U
108-88-3	Toluene	1300	U
10061-02-6	trans-1,3-Dichloropropene	1300	U
79-00-5	1,1,2-Trichloroethane	1300	U
127-18-4	Tetrachloroethene	1300	U
591-78-6	2-Hexanone	1300	U
124-48-1	Dibromochloromethane	1300	U
106-93-4	1,2-Dibromoethane	1300	U
108-90-7	Chlorobenzene	1300	U
100-41-4	Ethylbenzene	1300	U
1330-20-7	Xylene (total)	1300	U
100-42-5	Styrene	1300	U
75-25-2	Bromoform	1300	U
98-82-8	Isopropylbenzene	1300	U
79-34-5	1,1,2,2-Tetrachloroethane	1300	U
541-73-1	1,3-Dichlorobenzene	1300	U
106-46-7	1,4-Dichlorobenzene	1300	U
95-50-1	1,2-Dichlorobenzene	1300	U
96-12-8	1,2-Dibromo-3-chloropropane	1300	U
120-82-1	1,2,4-Trichlorobenzene	1300	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: L991208B

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41651.D

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

% Moisture: not dec._____ Date Analyzed: 12/08/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (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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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: N991206A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N37526.D

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

% Moisture: not dec._____ Date Analyzed: 12/09/99

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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	4	J
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: N991206A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N37526.D

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

% Moisture: not dec._____ Date Analyzed: 12/09/99

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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	9	J
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: N991206A

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N37526.D

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

% Moisture: not dec._____ Date Analyzed: 12/09/99

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.					
2.					
3.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N37539.D

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

% Moisture: not dec._____ Date Analyzed: 12/09/99

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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N37539.D

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

% Moisture: not dec._____ Date Analyzed: 12/09/99

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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: N37539.D

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

% Moisture: not dec._____ Date Analyzed: 12/09/99

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.					
2.					
3.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01MS

Sample wt/vol: 4.4 (g/mL) G Lab File ID: N37536.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 24 Date Analyzed: 12/09/99

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
75-71-8	Dichlorodifluoromethane	15	U
74-87-3	Chloromethane	15	U
75-01-4	Vinyl Chloride	15	U
74-83-9	Bromomethane	15	U
75-00-3	Chloroethane	15	U
75-69-4	Trichlorofluoromethane	15	U
75-35-4	1,1-Dichloroethene	75	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	15	U
67-64-1	Acetone	41	
75-15-0	Carbon Disulfide	15	U
79-20-9	Methyl Acetate	15	U
75-09-2	Methylene Chloride	11	J
156-60-5	trans-1,2-Dichloroethene	15	U
1634-04-4	Methyl-tert-Butyl Ether	15	U
75-34-3	1,1-Dichloroethane	15	U
156-59-2	cis-1,2-Dichloroethene	15	U
78-93-3	2-Butanone	15	U
67-66-3	Chloroform	15	U
71-55-6	1,1,1-Trichloroethane	15	U
110-82-7	Cyclohexane	15	U
56-23-5	Carbon Tetrachloride	15	U
71-43-2	Benzene	81	
107-06-2	1,2-Dichloroethane	15	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01MS

Sample wt/vol: 4.4 (g/mL) G Lab File ID: N37536.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 24 Date Analyzed: 12/09/99

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
79-01-6	Trichloroethene	47	
108-87-2	Methylcyclohexane	15	U
78-87-5	1,2-Dichloropropane	15	U
75-27-4	Bromodichloromethane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
108-10-1	4-Methyl-2-Pentanone	15	
108-88-3	Toluene	86	
10061-02-6	trans-1,3-Dichloropropene	15	U
79-00-5	1,1,2-Trichloroethane	15	U
127-18-4	Tetrachloroethene	15	U
591-78-6	2-Hexanone	15	U
124-48-1	Dibromochloromethane	15	U
106-93-4	1,2-Dibromoethane	15	U
108-90-7	Chlorobenzene	64	
100-41-4	Ethylbenzene	15	U
1330-20-7	Xylene (total)	15	U
100-42-5	Styrene	15	U
75-25-2	Bromoform	15	U
98-82-8	Isopropylbenzene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
541-73-1	1,3-Dichlorobenzene	15	U
106-46-7	1,4-Dichlorobenzene	15	U
95-50-1	1,2-Dichlorobenzene	15	U
96-12-8	1,2-Dibromo-3-chloropropane	15	U
120-82-1	1,2,4-Trichlorobenzene	15	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03MS

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41669.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: not dec. 21 Date Analyzed: 12/08/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1600	U
74-87-3	Chloromethane	1600	U
75-01-4	Vinyl Chloride	1600	U
74-83-9	Bromomethane	1600	U
75-00-3	Chloroethane	1600	U
75-69-4	Trichlorofluoromethane	1600	U
75-35-4	1,1-Dichloroethene	8000	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1600	U
67-64-1	Acetone	1600	U
75-15-0	Carbon Disulfide	1600	U
79-20-9	Methyl Acetate	1600	U
75-09-2	Methylene Chloride	1400	J
156-60-5	trans-1,2-Dichloroethene	1600	U
1634-04-4	Methyl-tert-Butyl Ether	1600	U
75-34-3	1,1-Dichloroethane	1600	U
156-59-2	cis-1,2-Dichloroethene	1600	U
78-93-3	2-Butanone	1600	U
67-66-3	Chloroform	1600	U
71-55-6	1,1,1-Trichloroethane	1600	U
110-82-7	Cyclohexane	4300	
56-23-5	Carbon Tetrachloride	1600	U
71-43-2	Benzene	11000	
107-06-2	1,2-Dichloroethane	1600	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03MS

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41669.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: not dec. 21 Date Analyzed: 12/08/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	11000	
108-87-2	Methylcyclohexane	1600	U
78-87-5	1,2-Dichloropropane	1600	U
75-27-4	Bromodichloromethane	1600	U
10061-01-5	cis-1,3-Dichloropropene	1600	U
108-10-1	4-Methyl-2-Pentanone	1600	
108-88-3	Toluene	11000	
10061-02-6	trans-1,3-Dichloropropene	1600	U
79-00-5	1,1,2-Trichloroethane	1600	U
127-18-4	Tetrachloroethene	1600	U
591-78-6	2-Hexanone	1600	U
124-48-1	Dibromochloromethane	1600	U
106-93-4	1,2-Dibromoethane	1600	U
108-90-7	Chlorobenzene	10000	
100-41-4	Ethylbenzene	1600	U
1330-20-7	Xylene (total)	1600	U
100-42-5	Styrene	1600	U
75-25-2	Bromoform	1600	U
98-82-8	Isopropylbenzene	2700	
79-34-5	1,1,2,2-Tetrachloroethane	1600	U
541-73-1	1,3-Dichlorobenzene	1600	U
106-46-7	1,4-Dichlorobenzene	1600	U
95-50-1	1,2-Dichlorobenzene	1600	U
96-12-8	1,2-Dibromo-3-chloropropane	1600	U
120-82-1	1,2,4-Trichlorobenzene	1600	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02MS

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41634.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	3	J
75-35-4	1,1-Dichloroethene	59	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	61	
107-06-2	1,2-Dichloroethane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02MS

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41634.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
79-01-6	Trichloroethene	67	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	
108-88-3	Toluene	57	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	58	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01MSD

Sample wt/vol: 6.1 (g/mL) G Lab File ID: N37538.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 24 Date Analyzed: 12/09/99

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
75-71-8	Dichlorodifluoromethane	11	U
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	33	
75-35-4	1,1-Dichloroethene	57	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	57	
75-15-0	Carbon Disulfide	11	U
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	9	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	11	U
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	71	
107-06-2	1,2-Dichloroethane	11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01MSD

Sample wt/vol: 6.1 (g/mL) G Lab File ID: N37538.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 24 Date Analyzed: 12/09/99

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
79-01-6	Trichloroethene	45	
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	
108-88-3	Toluene	75	
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	60	
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03MSD

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41670.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: not dec. 21 Date Analyzed: 12/08/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1600	U
74-87-3	Chloromethane	1600	U
75-01-4	Vinyl Chloride	1600	U
74-83-9	Bromomethane	1600	U
75-00-3	Chloroethane	1600	U
75-69-4	Trichlorofluoromethane	1600	U
75-35-4	1,1-Dichloroethene	7300	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1600	U
67-64-1	Acetone	1600	U
75-15-0	Carbon Disulfide	1600	U
79-20-9	Methyl Acetate	1600	U
75-09-2	Methylene Chloride	1200	J
156-60-5	trans-1,2-Dichloroethene	1600	U
1634-04-4	Methyl-tert-Butyl Ether	1600	U
75-34-3	1,1-Dichloroethane	1600	U
156-59-2	cis-1,2-Dichloroethene	1600	U
78-93-3	2-Butanone	1600	U
67-66-3	Chloroform	1600	U
71-55-6	1,1,1-Trichloroethane	1600	U
110-82-7	Cyclohexane	2600	
56-23-5	Carbon Tetrachloride	1600	U
71-43-2	Benzene	5800	
107-06-2	1,2-Dichloroethane	1600	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03MSD

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41670.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: not dec. 21 Date Analyzed: 12/08/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	9200	
108-87-2	Methylcyclohexane	1600	U
78-87-5	1,2-Dichloropropane	1600	U
75-27-4	Bromodichloromethane	1600	U
10061-01-5	cis-1,3-Dichloropropene	1600	U
108-10-1	4-Methyl-2-Pentanone	1600	
108-88-3	Toluene	10000	
10061-02-6	trans-1,3-Dichloropropene	1600	U
79-00-5	1,1,2-Trichloroethane	1600	U
127-18-4	Tetrachloroethene	1600	U
591-78-6	2-Hexanone	1600	U
124-48-1	Dibromochloromethane	1600	U
106-93-4	1,2-Dibromoethane	1600	U
108-90-7	Chlorobenzene	9400	
100-41-4	Ethylbenzene	1600	U
1330-20-7	Xylene (total)	1600	U
100-42-5	Styrene	1600	U
75-25-2	Bromoform	1600	U
98-82-8	Isopropylbenzene	2800	
79-34-5	1,1,2,2-Tetrachloroethane	1600	U
541-73-1	1,3-Dichlorobenzene	1600	U
106-46-7	1,4-Dichlorobenzene	1600	U
95-50-1	1,2-Dichlorobenzene	1600	U
96-12-8	1,2-Dibromo-3-chloropropane	1600	U
120-82-1	1,2,4-Trichlorobenzene	1600	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02MSD

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41635.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	48	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	53	
107-06-2	1,2-Dichloroethane	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02MSD

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41635.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
79-01-6	Trichloroethene	73	
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	
108-88-3	Toluene	49	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	51	
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01

Sample wt/vol: 5.7 (g/mL) G Lab File ID: N37534.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 24 Date Analyzed: 12/09/99

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
75-71-8	Dichlorodifluoromethane	13	
74-87-3	Chloromethane	12	U
75-01-4	Vinyl Chloride	12	U
74-83-9	Bromomethane	12	U
75-00-3	Chloroethane	12	U
75-69-4	Trichlorofluoromethane	39	
75-35-4	1,1-Dichloroethene	12	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12	U
67-64-1	Acetone	180	
75-15-0	Carbon Disulfide	8	J
79-20-9	Methyl Acetate	12	U
75-09-2	Methylene Chloride	9	J
156-60-5	trans-1,2-Dichloroethene	12	U
1634-04-4	Methyl-tert-Butyl Ether	12	U
75-34-3	1,1-Dichloroethane	12	U
156-59-2	cis-1,2-Dichloroethene	12	U
78-93-3	2-Butanone	12	U
67-66-3	Chloroform	12	U
71-55-6	1,1,1-Trichloroethane	12	U
110-82-7	Cyclohexane	12	U
56-23-5	Carbon Tetrachloride	12	U
71-43-2	Benzene	4	J
107-06-2	1,2-Dichloroethane	12	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01

Sample wt/vol: 5.7 (g/mL) G Lab File ID: N37534.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 24 Date Analyzed: 12/09/99

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
79-01-6	Trichloroethene	12	U
108-87-2	Methylcyclohexane	12	U
78-87-5	1,2-Dichloropropane	12	U
75-27-4	Bromodichloromethane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
108-88-3	Toluene	12	
10061-02-6	trans-1,3-Dichloropropene	12	
79-00-5	1,1,2-Trichloroethane	12	U
127-18-4	Tetrachloroethene	12	U
591-78-6	2-Hexanone	12	U
124-48-1	Dibromochloromethane	12	U
106-93-4	1,2-Dibromoethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	8	J
1330-20-7	Xylene (total)	30	
100-42-5	Styrene	12	U
75-25-2	Bromoform	12	U
98-82-8	Isopropylbenzene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
541-73-1	1,3-Dichlorobenzene	12	U
106-46-7	1,4-Dichlorobenzene	12	U
95-50-1	1,2-Dichlorobenzene	12	U
96-12-8	1,2-Dibromo-3-chloropropane	12	U
120-82-1	1,2,4-Trichlorobenzene	12	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01

Sample wt/vol: 5.7 (g/mL) G Lab File ID: N37534.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 24 Date Analyzed: 12/09/99

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

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

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	593-70-4	METHANE, CHLOROFLUORO-	1.55	77	JN
2.	75-43-4	METHANE, DICHLOROFLUORO-	3.14	600	JN
3.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	14.03	47	JN
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02

Sample wt/vol: 5.9 (g/mL) G Lab File ID: N37532.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 24 Date Analyzed: 12/09/99

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
75-71-8	Dichlorodifluoromethane	24	
74-87-3	Chloromethane	11	U
75-01-4	Vinyl Chloride	11	U
74-83-9	Bromomethane	11	U
75-00-3	Chloroethane	11	U
75-69-4	Trichlorofluoromethane	58	
75-35-4	1,1-Dichloroethene	11	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	11	U
67-64-1	Acetone	59	
75-15-0	Carbon Disulfide	3	J
79-20-9	Methyl Acetate	11	U
75-09-2	Methylene Chloride	6	J
156-60-5	trans-1,2-Dichloroethene	11	U
1634-04-4	Methyl-tert-Butyl Ether	11	U
75-34-3	1,1-Dichloroethane	11	U
156-59-2	cis-1,2-Dichloroethene	11	U
78-93-3	2-Butanone	6	J
67-66-3	Chloroform	11	U
71-55-6	1,1,1-Trichloroethane	11	U
110-82-7	Cyclohexane	11	U
56-23-5	Carbon Tetrachloride	11	U
71-43-2	Benzene	11	U
107-06-2	1,2-Dichloroethane	11	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02

Sample wt/vol: 5.9 (g/mL) G Lab File ID: N37532.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 24 Date Analyzed: 12/09/99

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
79-01-6	Trichloroethene	11	U
108-87-2	Methylcyclohexane	11	U
78-87-5	1,2-Dichloropropane	11	U
75-27-4	Bromodichloromethane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
108-88-3	Toluene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
127-18-4	Tetrachloroethene	11	U
591-78-6	2-Hexanone	11	U
124-48-1	Dibromochloromethane	11	U
106-93-4	1,2-Dibromoethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
1330-20-7	Xylene (total)	11	U
100-42-5	Styrene	11	U
75-25-2	Bromoform	11	U
98-82-8	Isopropylbenzene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
541-73-1	1,3-Dichlorobenzene	11	U
106-46-7	1,4-Dichlorobenzene	11	U
95-50-1	1,2-Dichlorobenzene	11	U
96-12-8	1,2-Dibromo-3-chloropropane	11	U
120-82-1	1,2,4-Trichlorobenzene	11	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02

Sample wt/vol: 5.9 (g/mL) G Lab File ID: N37532.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 24 Date Analyzed: 12/09/99

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

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

Number TICs found: 6 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	593-70-4	METHANE, CHLOROFLUORO-	1.55	23	JN
2.	75-43-4	METHANE, DICHLOROFLUORO-	3.14	380	JN
3.	1066-40-6	SILANOL, TRIMETHYL-	7.76	11	JN
4.	556-67-2	CYCLOTETRASILOXANE, OCTAMETH	14.04	22	JN
5.		UNKNOWN	16.13	11	J
6.		UNKNOWN	18.15	19	
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41613.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: not dec. 21 Date Analyzed: 12/06/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	1600	U
74-87-3	Chloromethane	1600	U
75-01-4	Vinyl Chloride	1600	U
74-83-9	Bromomethane	1600	U
75-00-3	Chloroethane	1600	U
75-69-4	Trichlorofluoromethane	1600	U
75-35-4	1,1-Dichloroethene	1600	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1600	U
67-64-1	Acetone	1800	
75-15-0	Carbon Disulfide	1600	U
79-20-9	Methyl Acetate	1600	U
75-09-2	Methylene Chloride	1200	J
156-60-5	trans-1,2-Dichloroethene	1600	U
1634-04-4	Methyl-tert-Butyl Ether	1600	U
75-34-3	1,1-Dichloroethane	1600	U
156-59-2	cis-1,2-Dichloroethene	1600	U
78-93-3	2-Butanone	1600	U
67-66-3	Chloroform	1600	U
71-55-6	1,1,1-Trichloroethane	1600	U
110-82-7	Cyclohexane	2800	
56-23-5	Carbon Tetrachloride	1600	U
71-43-2	Benzene	1600	U
107-06-2	1,2-Dichloroethane	1600	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41613.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: not dec. 21 Date Analyzed: 12/06/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	1600	U
108-87-2	Methylcyclohexane	1600	U
78-87-5	1,2-Dichloropropane	1600	U
75-27-4	Bromodichloromethane	1600	U
10061-01-5	cis-1,3-Dichloropropene	1600	U
108-10-1	4-Methyl-2-Pentanone	1600	U
108-88-3	Toluene	1600	
10061-02-6	trans-1,3-Dichloropropene	1600	U
79-00-5	1,1,2-Trichloroethane	1600	U
127-18-4	Tetrachloroethene	1600	U
591-78-6	2-Hexanone	1600	U
124-48-1	Dibromochloromethane	1600	U
106-93-4	1,2-Dibromoethane	1600	U
108-90-7	Chlorobenzene	1600	U
100-41-4	Ethylbenzene	600	J
1330-20-7	Xylene (total)	1600	U
100-42-5	Styrene	1600	U
75-25-2	Bromoform	1600	U
98-82-8	Isopropylbenzene	2200	
79-34-5	1,1,2,2-Tetrachloroethane	1600	U
541-73-1	1,3-Dichlorobenzene	1600	U
106-46-7	1,4-Dichlorobenzene	1600	U
95-50-1	1,2-Dichlorobenzene	1600	U
96-12-8	1,2-Dibromo-3-chloropropane	1600	U
120-82-1	1,2,4-Trichlorobenzene	1600	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41613.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: not dec. 21 Date Analyzed: 12/06/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 15

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	9.44	11000	J
2.		UNKNOWN	10.56	1100	J
3.		UNKNOWN	10.73	5200	J
4.		UNKNOWN	13.90	6900	J
5.		UNKNOWN HYDROCARBON	14.47	4400	J
6.	103-65-1	BENZENE, PROPYL-	14.60	2800	JN
7.		UNKNOWN	15.01	2800	J
8.		UNKNOWN	15.95	9600	J
9.		UNKNOWN	16.12	7800	J
10.		UNKNOWN ALKYL BENZENE	16.36	7200	J
11.		UNKNOWN ALKYL BENZENE	16.47	6100	J
12.		UNKNOWN ALKYL BENZENE	16.77	15000	J
13.		UNKNOWN ALKYL BENZENE	17.27	23000	J
14.	91-57-6	NAPHTHALENE, 2-METHYL-	19.45	14000	JN
15.	90-12-0	NAPHTHALENE, 1-METHYL-	19.76	5300	JN
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.04

Sample wt/vol: 6.5 (g/mL) G Lab File ID: N37527.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 21 Date Analyzed: 12/09/99

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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.04

Sample wt/vol: 6.5 (g/mL) G Lab File ID: N37527.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 21 Date Analyzed: 12/09/99

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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	~~3~~ 10	B
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.04

Sample wt/vol: 6.5 (g/mL) G Lab File ID: N37527.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 21 Date Analyzed: 12/09/99

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

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

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	75-43-4	METHANE, DICHLOROFLUORO-	3.13	7	JN
2.		UNKNOWN	14.04	35	J
3.		UNKNOWN	16.13	11	J
4.		UNKNOWN	16.76	4	J
5.					
6.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41609.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: not dec. 47 Date Analyzed: 12/06/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	2400	U
74-87-3	Chloromethane	2400	U
75-01-4	Vinyl Chloride	2400	U
74-83-9	Bromomethane	2400	U
75-00-3	Chloroethane	2400	U
75-69-4	Trichlorofluoromethane	2400	U
75-35-4	1,1-Dichloroethene	2400	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2400	U
67-64-1	Acetone	2400	U
75-15-0	Carbon Disulfide	2400	U
79-20-9	Methyl Acetate	2400	U
75-09-2	Methylene Chloride	1800	J
156-60-5	trans-1,2-Dichloroethene	2400	U
1634-04-4	Methyl-tert-Butyl Ether	2400	U
75-34-3	1,1-Dichloroethane	2400	U
156-59-2	cis-1,2-Dichloroethene	2400	U
78-93-3	2-Butanone	2400	U
67-66-3	Chloroform	2400	U
71-55-6	1,1,1-Trichloroethane	2400	U
110-82-7	Cyclohexane	2400	U
56-23-5	Carbon Tetrachloride	2400	U
71-43-2	Benzene	2400	U
107-06-2	1,2-Dichloroethane	2400	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41609.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: not dec. 47 Date Analyzed: 12/06/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
79-01-6	Trichloroethene	2400	U
108-87-2	Methylcyclohexane	2400	U
78-87-5	1,2-Dichloropropane	2400	U
75-27-4	Bromodichloromethane	2400	U
10061-01-5	cis-1,3-Dichloropropene	2400	U
108-10-1	4-Methyl-2-Pentanone	2400	
108-88-3	Toluene	2400	
10061-02-6	trans-1,3-Dichloropropene	2400	U
79-00-5	1,1,2-Trichloroethane	2400	U
127-18-4	Tetrachloroethene	2400	U
591-78-6	2-Hexanone	2400	U
124-48-1	Dibromochloromethane	2400	U
106-93-4	1,2-Dibromoethane	2400	U
108-90-7	Chlorobenzene	2400	U
100-41-4	Ethylbenzene	2400	U
1330-20-7	Xylene (total)	2400	U
100-42-5	Styrene	2400	U
75-25-2	Bromoform	2400	U
98-82-8	Isopropylbenzene	2400	U
79-34-5	1,1,2,2-Tetrachloroethane	2400	U
541-73-1	1,3-Dichlorobenzene	2400	U
106-46-7	1,4-Dichlorobenzene	2400	U
95-50-1	1,2-Dichlorobenzene	2400	U
96-12-8	1,2-Dibromo-3-chloropropane	2400	U
120-82-1	1,2,4-Trichlorobenzene	2400	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAN0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05

Sample wt/vol: 4.0 (g/mL) G Lab File ID: L41609.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: not dec. 47 Date Analyzed: 12/06/99

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

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 100 (uL)

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	13466-78-9	3-CARENE	15.23	6900	JN
2.		UNKNOWN ALKYL BENZENE	15.95	1900	J
3.		UNKNOWN ALKYL BENZENE	17.28	2000	J
4.	90-12-0	NAPHTHALENE, 1-METHYL-	19.47	2700	JN
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.06

Sample wt/vol: 6.4 (g/mL) G Lab File ID: N37531.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 15 Date Analyzed: 12/09/99

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
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	"
75-35-4	1,1-Dichloroethene	10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	7	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.06

Sample wt/vol: 6.4 (g/mL) G Lab File ID: N37531.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 15 Date Analyzed: 12/09/99

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
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	4	J
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAN1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.06

Sample wt/vol: 6.4 (g/mL) G Lab File ID: N37531.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: not dec. 15 Date Analyzed: 12/09/99

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

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

Number TICs found: 4 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		CYCLOTETRASILOXANE	14.04	36	J
2.		UNKNOWN	16.77	3	J
3.		2-PHENYL-1,2-BIS(TRIMETHYLSI	18.16	24	J
4.	569-41-5	NAPHTHALENE, 1,8-DIMETHYL-	21.12	7	JN
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.01

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41628.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	21	
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	2	J
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.01

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41628.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
79-01-6	Trichloroethene	5	J
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	8	J
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.01

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41628.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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

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

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 71-23-8	1-PROPANOL	8.03	17	JN
2.	UNKNOWN	16.61	23	J
3.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41629.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41629.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41629.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	16.60	23	J
2.					
3.					
4.					
5.					
6.					
7.					
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9.					
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41630.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41630.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41630.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	16.60	11	J
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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27.					
28.					
29.					
30.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.04

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41631.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.04

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41631.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.04

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41631.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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

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

Number TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	15.42	6	J
2.		UNKNOWN	16.60	10	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
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24.					
25.					
26.					
27.					
28.					
29.					
30.					

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.05

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41632.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	U
75-35-4	1,1-Dichloroethene	10	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	16	
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.05

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41632.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.05

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41632.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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

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

Number TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 593-70-4	METHANE, CHLOROFLUORO-	2.19	7	JN
2. 75-43-4	METHANE, DICHLOROFLUORO-	4.32	110	JN
3.	UNKNOWN	16.59	13	J
4.				
5.				
6.				
7.				
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9.				
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.06

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41633.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
75-71-8	Dichlorodifluoromethane	10	U
74-87-3	Chloromethane	10	U
75-01-4	Vinyl Chloride	10	U
74-83-9	Bromomethane	10	U
75-00-3	Chloroethane	10	U
75-69-4	Trichlorofluoromethane	10	
75-35-4	1,1-Dichloroethene	10	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
79-20-9	Methyl Acetate	10	U
75-09-2	Methylene Chloride	10	U
156-60-5	trans-1,2-Dichloroethene	10	U
1634-04-4	Methyl-tert-Butyl Ether	10	U
75-34-3	1,1-Dichloroethane	10	U
156-59-2	cis-1,2-Dichloroethene	10	U
78-93-3	2-Butanone	10	U
67-66-3	Chloroform	10	U
71-55-6	1,1,1-Trichloroethane	10	U
110-82-7	Cyclohexane	10	U
56-23-5	Carbon Tetrachloride	10	U
71-43-2	Benzene	10	U
107-06-2	1,2-Dichloroethane	10	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.06

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41633.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L	Q
79-01-6	Trichloroethene	10	U
108-87-2	Methylcyclohexane	10	U
78-87-5	1,2-Dichloropropane	10	U
75-27-4	Bromodichloromethane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
108-88-3	Toluene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
127-18-4	Tetrachloroethene	10	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	10	U
106-93-4	1,2-Dibromoethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
1330-20-7	Xylene (total)	10	U
100-42-5	Styrene	10	U
75-25-2	Bromoform	10	U
98-82-8	Isopropylbenzene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.06

Sample wt/vol: 5 (g/mL) ML Lab File ID: L41633.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: not dec. _____ Date Analyzed: 12/07/99

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/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	16.59	12	J
2.				
3.				
4.				
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2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLK2	68	74	95	74	69	76	72	67	0
02	EDAP1	76	80	64	72	69	64	74	76	0
03	EDAP1MS	65	72	64	67	64	52	67	70	0
04	EDAP1MSD	47	52	39	45	44	38	46	47	0
05	EDAP4	60	64	45	65	63	78	64	61	0
06	EDAP5	73	73	84	73	69	75	74	69	0
07	EDAP3	49	48	28 *	52	47	68	50	49	1
08	EDAP2	66	62	38	67	65	89	68	65	0
09	EDAP4DL	57	64	43	59	58	77	64	61	0
10	EDAP2DL	60	58	37	58	58	79	62	62	0
11										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

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

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

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	84	76	99	81	77	59	76	73	0
02	EDAM6	81	74	83	86	81	81	76	68	0
03	EDAM7	91	83	83	85	83	86	80	72	0
04	EDAM9	87	79	85	83	80	85	76	69	0
05	EDAN0	97	97	98	91	74	92	75	77	0
06	EDAN1	90	85	96	93	84	99	83	74	0
07	EDAM6MS	95	90	88	91	84	105	85	75	0
08	EDAM6DL	60	72	72	62	65	60	59	65	0
09	EDAM7DL	75	81	90	72	73	82	72	71	0
10	EDAN0DL	23	25 D	25	22 D	19 D	15 D	18 D	22	0
11	EDAM6MSD	82	84	99	79	77	83	77	76	0
12										
13										
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		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

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Level:(low/med) MED

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLK4	63	69	56	61	62	59	62	62	0
02	SBLK3	66	69	71	64	60	71	70	66	0
03	EDAM8DL	57	71	77	59	58	62	59	64	0
04	EDAM8	71	85	89	70	62	88	73	69	0
05	EDAM8MS	67	74	84	66	53	83	65	63	0
06	EDAM8MSD	58	62	68	55	40	70	55	56	0
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		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

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix Spike - EPA Sample NO.: EDAP1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75	0	51	68	12-110
2-Chlorophenol	75	0	51	68	27-123
N-Nitroso-di-n-prop.(1)	50	0	34	68	41-116
4-Chloro-3-methylphenol	75	0	43	57	23- 97
Acenaphthene	50	0	34	68	46-118
4-Nitrophenol	75	0	54	72	10- 80
2,4-Dinitrotoluene	50	0	33	66	24- 96
Pentachlorophenol	75	0	48	64	9-103
Pyrene	50	0	31	62	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75	34	45	41	42	12-110
2-Chlorophenol	75	34	45	41 *	40	27-123
N-Nitroso-di-n-prop.(1)	50	24	48	34	38	41-116
4-Chloro-3-methylphenol	75	34	45	24	42	23- 97
Acenaphthene	50	24	48	34 *	31	46-118
4-Nitrophenol	75	38	51	34	50	10- 80
2,4-Dinitrotoluene	50	23	46	36	38	24- 96
Pentachlorophenol	75	35	47	31	50	9-103
Pyrene	50	21	42	38 *	31	26-127

(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: 3 out of 9 outside limits
Spike Recovery: 0 out of 18 outside limits

Comments: _____

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix Spike - EPA Sample NO.: EDAM6 Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	3300	670	3200	77	26- 90
2-Chlorophenol	3300	0	2600	79	25-102
N-Nitroso-di-n-prop.(1)	2200	0	2200	100	41-126
4-Chloro-3-methylphenol	3300	0	3300	100	26-103
Acenaphthene	2200	2900	4800	86	31-137
4-Nitrophenol	3300	0	3100	94	11-114
2,4-Dinitrotoluene	2200	0	2300	105 *	28- 89
Pentachlorophenol	3300	0	3000	91	17-109
Pyrene	2200	17000	18000	45	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	3300	3200	77	0	35	26- 90
2-Chlorophenol	3300	2400	73	8	50	25-102
N-Nitroso-di-n-prop.(1)	2200	2500	114	13	38	41-126
4-Chloro-3-methylphenol	3300	3300	100	0	33	26-103
Acenaphthene	2200	6300	155 *	57 *	19	31-137
4-Nitrophenol	3300	3900	118 *	23	50	11-114
2,4-Dinitrotoluene	2200	3000	136 *	26	47	28- 89
Pentachlorophenol	3300	2800	85	7	47	17-109
Pyrene	2200	26000	409 *	160 *	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 9 outside limits
Spike Recovery: 5 out of 18 outside limits

Comments: _____

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix Spike - EPA Sample NO.: EDAM8 Level:(low/med) MED

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	95000	0	65000	68	26- 90
2-Chlorophenol	95000	0	61000	64	25-102
N-Nitroso-di-n-prop.(1)	63000	0	49000	78	41-126
4-Chloro-3-methylphenol	95000	0	70000	74	26-103
Acenaphthene	63000	7700	51000	69	31-137
4-Nitrophenol	95000	0	62000	65	11-114
2,4-Dinitrotoluene	63000	0	42000	67	28- 89
Pentachlorophenol	95000	0	65000	68	17-109
Pyrene	63000	18000	67000	78	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	95000	61000	64	6	35	26- 90
2-Chlorophenol	95000	53000	56	13	50	25-102
N-Nitroso-di-n-prop.(1)	63000	40000	63	21	38	41-126
4-Chloro-3-methylphenol	95000	61000	64	14	33	26-103
Acenaphthene	63000	45000	59	16	19	31-137
4-Nitrophenol	95000	55000	58	11	50	11-114
2,4-Dinitrotoluene	63000	33000	52	25	47	28- 89
Pentachlorophenol	95000	57000	60	13	47	17-109
Pyrene	63000	55000	59	28	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 9 outside limits
Spike Recovery: 0 out of 18 outside limits

Comments: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab File ID: H9120715 Lab Sample ID: BL1130SE

Instrument ID: HP70H Date Extracted: 11/30/99

Matrix: (soil/water) SOIL Date Analyzed: 12/07/99

Level:(low/med) LOW Time Analyzed: 1400

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EDAM6	41246.01	H9120716	12/07/99
02	EDAM7	41246.02	H9120717	12/07/99
03	EDAM9	41246.04	H9120719	12/07/99
04	EDAN0	41246.05	H9120720	12/07/99
05	EDAN1	41246.06	H9120721	12/07/99
06	EDAM6MS	41246.01MS	H9120722	12/07/99
07	EDAM6DL	41246.01DL	H9120803	12/08/99
08	EDAM7DL	41246.02DL	H9120804	12/08/99
09	EDAN0DL	41246.05DL	H9120806	12/08/99
10	EDAM6MSD	41246.01MSD	H9120807	12/08/99
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14				
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Comments:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab File ID: F9120713 Lab Sample ID: BL1202WB

Instrument ID: HP70F Date Extracted: 12/02/99

Matrix: (soil/water) WATER Date Analyzed: 12/07/99

Level:(low/med) LOW Time Analyzed: 1646

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EDAP1	41263.02	F9120717	12/07/99
02	EDAP1MS	41263.02MS	F9120718	12/07/99
03	EDAP1MSD	41263.02MSD	F9120719	12/07/99
04	EDAP4	41263.05	F9120720	12/07/99
05	EDAP5	41263.06	F9120721	12/07/99
06	EDAP3	41263.04	F9120722	12/07/99
07	EDAP2	41263.03	F9120723	12/07/99
08	EDAP4DL	41263.05DL	F9120807	12/08/99
09	EDAP2DL	41263.03DL	F9120808	12/08/99
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Comments:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab File ID: V9121010 Lab Sample ID: BL1209SC

Instrument ID: HP72V Date Extracted: 12/09/99

Matrix: (soil/water) SOIL Date Analyzed: 12/10/99

Level:(low/med) MED Time Analyzed: 1516

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EDAM8	41246.03	V9121011	12/10/99
02	EDAM8MS	41246.03MS	V9121012	12/10/99
03	EDAM8MSD	41246.03MSD	V9121013	12/10/99
04				
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Comments:

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab File ID: J9121315 Lab Sample ID: BL1209SC

Instrument ID: HP70J Date Extracted: 12/09/99

Matrix: (soil/water) SOIL Date Analyzed: 12/13/99

Level:(low/med) MED Time Analyzed: 1742

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EDAM8DL	41246.03DL	J9121318	12/13/99
02				
03				
04				
05				
06				
07				
08				
09				
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Comments:

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1

ab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BL1130SE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H9120715.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	330	U
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
98-86-2	Acetophenone	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
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
105-60-2	Caprolactam	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
92-52-4	1,1'-Biphenyl	330	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	830	U
131-11-3	Dimethylphthalate	330	U
606-20-2	2,6-Dinitrotoluene	330	U
208-96-8	Acenaphthylene	330	U
99-09-2	3-Nitroaniline	830	U
83-32-9	Acenaphthene	330	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BL1130SE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H9120715.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

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	330	U
86-73-7	Fluorene	330	U
7005-72-3	4-Chlorophenyl-phenylether	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
1912-24-9	Atrazine	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	29	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 seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BL1130SE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: H9120715.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 11

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-	3.13	520	AJN
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.53	3100	AJN
3.	UNKNOWN	4.28	69	J
4.	UNKNOWN	4.60	410	J
5.	UNKNOWN HYDROCARBON	12.05	110	J
6.	UNKNOWN AMIDE	16.36	200	J
7.	UNKNOWN	16.95	94	J
8.	UNKNOWN	20.38	87	J
9.	UNKNOWN	20.65	68	J
10.	UNKNOWN	22.32	150	J
11.	UNKNOWN	23.78	100	J
12.				
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: BL1202WB

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120713.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: BL1202WB

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120713.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.5	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.5	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK2

ab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: BL1202WB

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120713.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT EX

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.75	3	J
2.		UNKNOWN	4.90	2	J
3.		UNKNOWN	5.32	7	J
4.					
5.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BL1209SC

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V9121010.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	10000	U
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)ether	10000	U
95-57-8	2-Chlorophenol	10000	U
95-48-7	2-Methylphenol	10000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10000	U
98-86-2	Acetophenone	10000	U
106-44-5	4-Methylphenol	10000	
621-64-7	N-Nitroso-di-n-propylamine	10000	
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
111-91-1	bis(2-Chloroethoxy)methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
105-60-2	Caprolactam	10000	U
59-50-7	4-Chloro-3-methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	10000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
208-96-8	Acenaphthylene	10000	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	10000	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BL1209SC

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V9121010.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
86-73-7	Fluorene	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	U
86-30-6	N-Nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
1912-24-9	Atrazine	10000	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	10000	U
120-12-7	Anthracene	10000	U
86-74-8	Carbazole	10000	U
84-74-2	Di-n-butylphthalate	10000	U
206-44-0	Fluoranthene	10000	U
129-00-0	Pyrene	10000	U
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)anthracene	10000	U
218-01-9	Chrysene	10000	U
117-81-7	bis(2-Ethylhexyl)phthalate	10000	U
117-84-0	Di-n-octylphthalate	10000	U
205-99-2	Benzo(b)fluoranthene	10000	U
207-08-9	Benzo(k)fluoranthene	10000	U
50-32-8	Benzo(a)pyrene	10000	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000	U
53-70-3	Dibenz(a,h)anthracene	10000	U
191-24-2	Benzo(g,h,i)perylene	10000	U

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BL1209SC

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V9121010.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 872-05-9	1-DECENE	8.47	26000	JN
2.	UNKNOWN	10.93	7500	J
3.	UNKNOWN AMIDE	13.52	7400	J
4.	UNKNOWN AMIDE	15.04	8300	
5.	UNKNOWN AMIDE	15.17	16000	J
6.	UNKNOWN AMIDE	16.53	160000	J
7.	UNKNOWN AMIDE	16.68	6700	J
8.	UNKNOWN	17.79	3600	J
9.	UNKNOWN	24.07	200000	J
10.				
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BL1209SC

Sample wt/vol: 1.0 (g/mL) G Lab File ID: J9121315.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	10000	U
108-95-2	Phenol	10000	U
111-44-4	bis(2-Chloroethyl)ether	10000	U
95-57-8	2-Chlorophenol	10000	U
95-48-7	2-Methylphenol	10000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10000	U
98-86-2	Acetophenone	10000	U
106-44-5	4-Methylphenol	10000	U
621-64-7	N-Nitroso-di-n-propylamine	10000	U
67-72-1	Hexachloroethane	10000	U
98-95-3	Nitrobenzene	10000	U
78-59-1	Isophorone	10000	U
88-75-5	2-Nitrophenol	10000	U
105-67-9	2,4-Dimethylphenol	10000	U
111-91-1	bis(2-Chloroethoxy)methane	10000	U
120-83-2	2,4-Dichlorophenol	10000	U
91-20-3	Naphthalene	10000	U
106-47-8	4-Chloroaniline	10000	U
87-68-3	Hexachlorobutadiene	10000	U
105-60-2	Caprolactam	10000	U
59-50-7	4-Chloro-3-methylphenol	10000	U
91-57-6	2-Methylnaphthalene	10000	U
77-47-4	Hexachlorocyclopentadiene	10000	U
88-06-2	2,4,6-Trichlorophenol	10000	U
95-95-4	2,4,5-Trichlorophenol	25000	U
92-52-4	1,1'-Biphenyl	10000	U
91-58-7	2-Chloronaphthalene	10000	U
88-74-4	2-Nitroaniline	25000	U
131-11-3	Dimethylphthalate	10000	U
606-20-2	2,6-Dinitrotoluene	10000	U
208-96-8	Acenaphthylene	10000	U
99-09-2	3-Nitroaniline	25000	U
83-32-9	Acenaphthene	10000	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BL1209SC

Sample wt/vol: 1.0 (g/mL) G Lab File ID: J9121315.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	25000	U
100-02-7	4-Nitrophenol	25000	U
132-64-9	Dibenzofuran	10000	U
121-14-2	2,4-Dinitrotoluene	10000	U
84-66-2	Diethylphthalate	10000	U
86-73-7	Fluorene	10000	U
7005-72-3	4-Chlorophenyl-phenylether	10000	U
100-01-6	4-Nitroaniline	25000	U
534-52-1	4,6-Dinitro-2-methylphenol	25000	
86-30-6	N-Nitrosodiphenylamine (1)	10000	U
101-55-3	4-Bromophenyl-phenylether	10000	U
118-74-1	Hexachlorobenzene	10000	U
1912-24-9	Atrazine	10000	U
87-86-5	Pentachlorophenol	25000	U
85-01-8	Phenanthrene	10000	U
120-12-7	Anthracene	10000	U
86-74-8	Carbazole	10000	U
84-74-2	Di-n-butylphthalate	10000	U
206-44-0	Fluoranthene	10000	U
129-00-0	Pyrene	10000	U
85-68-7	Butylbenzylphthalate	10000	U
91-94-1	3,3'-Dichlorobenzidine	10000	U
56-55-3	Benzo(a)anthracene	10000	U
218-01-9	Chrysene	10000	U
117-81-7	bis(2-Ethylhexyl)phthalate	10000	U
117-84-0	Di-n-octylphthalate	10000	U
205-99-2	Benzo(b)fluoranthene	10000	U
207-08-9	Benzo(k)fluoranthene	10000	U
50-32-8	Benzo(a)pyrene	10000	U
193-39-5	Indeno(1,2,3-cd)pyrene	10000	U
53-70-3	Dibenz(a,h)anthracene	10000	U
191-24-2	Benzo(g,h,i)perylene	10000	U

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK4

.b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BL1209SC

Sample wt/vol: 1.0 (g/mL) G Lab File ID: J9121315.D

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

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0 Extraction: (Type) SONC

Number TICs found: 11

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.54	2600	J
2.		UNKNOWN	4.63	2500	J
3.		UNKNOWN	5.02	2100	J
4.	112-70-9	1-TRIDECANOL	13.00	4100	JN
5.		UNKNOWN AMIDE	15.14	4600	J
6.		UNKNOWN AMIDE	16.42	3300	J
7.		UNKNOWN AMIDE	16.52	6000	J
8.		UNKNOWN AMIDE	17.66	86000	J
9.		UNKNOWN AMIDE	17.77	4300	J
10.		UNKNOWN	23.65	2200	J
11.	123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	25.26	110000	JN
12.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01MS

Sample wt/vol: 30.1 (g/mL) G Lab File ID: H9120722.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	220	J
108-95-2	Phenol	3200	
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	2600	
95-48-7	2-Methylphenol	590	
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	95	J
106-44-5	4-Methylphenol	1300	
621-64-7	N-Nitroso-di-n-propylamine	2200	
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	420	J
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	1200	
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	3300	
91-57-6	2-Methylnaphthalene	700	
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	350	J
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	120	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	4800	E

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01MS

Sample wt/vol: 30.1 (g/mL) G Lab File ID: H9120722.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	3100	
132-64-9	Dibenzofuran	2500	
121-14-2	2,4-Dinitrotoluene	2300	
84-66-2	Diethylphthalate	28	J
86-73-7	Fluorene	3700	E
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	3000	
85-01-8	Phenanthrene	19000	E
120-12-7	Anthracene	6800	E
86-74-8	Carbazole	3900	E
84-74-2	Di-n-butylphthalate	69	J
206-44-0	Fluoranthene	21000	E
129-00-0	Pyrene	18000	E
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	8900	E
218-01-9	Chrysene	8400	E
117-81-7	bis(2-Ethylhexyl)phthalate	1300	B ✓
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	9400	E
207-08-9	Benzo(k)fluoranthene	4400	E
50-32-8	Benzo(a)pyrene	8500	E
193-39-5	Indeno(1,2,3-cd)pyrene	4700	E
53-70-3	Dibenz(a,h)anthracene	1900	
191-24-2	Benzo(g,h,i)perylene	4800	E

(1) Cannot be seperated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03MS

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V9121012.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	13000	U
108-95-2	Phenol	65000	
111-44-4	bis(2-Chloroethyl)ether	13000	U
95-57-8	2-Chlorophenol	61000	
95-48-7	2-Methylphenol	13000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	13000	U
98-86-2	Acetophenone	13000	U
106-44-5	4-Methylphenol	13000	U
621-64-7	N-Nitroso-di-n-propylamine	49000	
67-72-1	Hexachloroethane	13000	U
98-95-3	Nitrobenzene	13000	U
78-59-1	Isophorone	13000	U
88-75-5	2-Nitrophenol	13000	U
105-67-9	2,4-Dimethylphenol	13000	U
111-91-1	bis(2-Chloroethoxy)methane	13000	U
120-83-2	2,4-Dichlorophenol	13000	U
91-20-3	Naphthalene	13000	U
106-47-8	4-Chloroaniline	13000	U
87-68-3	Hexachlorobutadiene	13000	U
105-60-2	Caprolactam	13000	U
59-50-7	4-Chloro-3-methylphenol	70000	
91-57-6	2-Methylnaphthalene	130000	E
77-47-4	Hexachlorocyclopentadiene	13000	U
88-06-2	2,4,6-Trichlorophenol	13000	U
95-95-4	2,4,5-Trichlorophenol	32000	U
92-52-4	1,1'-Biphenyl	13000	U
91-58-7	2-Chloronaphthalene	13000	U
88-74-4	2-Nitroaniline	32000	U
131-11-3	Dimethylphthalate	13000	U
606-20-2	2,6-Dinitrotoluene	13000	U
208-96-8	Acenaphthylene	13000	U
99-09-2	3-Nitroaniline	32000	U
83-32-9	Acenaphthene	51000	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8MS

ab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03MS

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V9121012.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	32000	U
100-02-7	4-Nitrophenol	62000	
132-64-9	Dibenzofuran	5800	J
121-14-2	2,4-Dinitrotoluene	42000	
84-66-2	Diethylphthalate	13000	U
86-73-7	Fluorene	15000	
7005-72-3	4-Chlorophenyl-phenylether	13000	U
100-01-6	4-Nitroaniline	32000	U
534-52-1	4,6-Dinitro-2-methylphenol	32000	U
86-30-6	N-Nitrosodiphenylamine (1)	13000	U
101-55-3	4-Bromophenyl-phenylether	13000	U
118-74-1	Hexachlorobenzene	13000	U
1912-24-9	Atrazine	13000	U
87-86-5	Pentachlorophenol	65000	
85-01-8	Phenanthrene	62000	
120-12-7	Anthracene	4700	J
86-74-8	Carbazole	13000	U
84-74-2	Di-n-butylphthalate	13000	U
206-44-0	Fluoranthene	2900	J
129-00-0	Pyrene	67000	
85-68-7	Butylbenzylphthalate	13000	U
91-94-1	3,3'-Dichlorobenzidine	13000	U
56-55-3	Benzo(a)anthracene	13000	
218-01-9	Chrysene	19000	
117-81-7	bis(2-Ethylhexyl)phthalate	1100	J
117-84-0	Di-n-octylphthalate	13000	U
205-99-2	Benzo(b)fluoranthene	4100	J
207-08-9	Benzo(k)fluoranthene	13000	U
50-32-8	Benzo(a)pyrene	4500	J
193-39-5	Indeno(1,2,3-cd)pyrene	13000	U
53-70-3	Dibenz(a,h)anthracene	2100	J
191-24-2	Benzo(g,h,i)perylene	1900	J

(1) Cannot be seperated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120718.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	51	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	51	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	34	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	64	
59-50-7	4-Chloro-3-methylphenol	43	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	1	J
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	34	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120718.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	54	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	33	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	48	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10 ~~0.9~~ 55	~~B~~ J 11
206-44-0	Fluoranthene	10 1.14	U
129-00-0	Pyrene	31	
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01MSD

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H9120807.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	430	U
108-95-2	Phenol	3200	
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	2400	
95-48-7	2-Methylphenol	900	
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	2000	
621-64-7	N-Nitroso-di-n-propylamine	2500	
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	720	
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	1500	
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	3300	
91-57-6	2-Methylnaphthalene	1000	
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	450	
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	430	U
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	6300	E

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01MSD

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H9120807.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	3900	E
132-64-9	Dibenzofuran	3700	E
121-14-2	2,4-Dinitrotoluene	3000	
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	5800	E
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	2800	
85-01-8	Phenanthrene	25000	E
120-12-7	Anthracene	9400	E
86-74-8	Carbazole	5600	E
84-74-2	Di-n-butylphthalate	110	J
206-44-0	Fluoranthene	29000	E
129-00-0	Pyrene	26000	E
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	14000	E
218-01-9	Chrysene	13000	E
117-81-7	bis(2-Ethylhexyl)phthalate	430	U
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	11000	E
207-08-9	Benzo(k)fluoranthene	9100	E
50-32-8	Benzo(a)pyrene	13000	E
193-39-5	Indeno(1,2,3-cd)pyrene	7100	E
53-70-3	Dibenz(a,h)anthracene	2300	
191-24-2	Benzo(g,h,i)perylene	7300	E

(1) Cannot be seperated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03MSD

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V9121013.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	13000	U
108-95-2	Phenol	61000	
111-44-4	bis(2-Chloroethyl)ether	13000	U
95-57-8	2-Chlorophenol	53000	
95-48-7	2-Methylphenol	13000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	13000	U
98-86-2	Acetophenone	13000	U
106-44-5	4-Methylphenol	13000	
621-64-7	N-Nitroso-di-n-propylamine	40000	
67-72-1	Hexachloroethane	13000	U
98-95-3	Nitrobenzene	13000	U
78-59-1	Isophorone	13000	U
88-75-5	2-Nitrophenol	13000	U
105-67-9	2,4-Dimethylphenol	13000	U
111-91-1	bis(2-Chloroethoxy)methane	13000	U
120-83-2	2,4-Dichlorophenol	13000	U
91-20-3	Naphthalene	13000	U
106-47-8	4-Chloroaniline	13000	U
87-68-3	Hexachlorobutadiene	13000	U
105-60-2	Caprolactam	13000	U
59-50-7	4-Chloro-3-methylphenol	61000	
91-57-6	2-Methylnaphthalene	91000	
77-47-4	Hexachlorocyclopentadiene	13000	U
88-06-2	2,4,6-Trichlorophenol	13000	U
95-95-4	2,4,5-Trichlorophenol	32000	U
92-52-4	1,1'-Biphenyl	13000	U
91-58-7	2-Chloronaphthalene	13000	U
88-74-4	2-Nitroaniline	32000	U
131-11-3	Dimethylphthalate	13000	U
606-20-2	2,6-Dinitrotoluene	13000	U
208-96-8	Acenaphthylene	13000	U
99-09-2	3-Nitroaniline	32000	U
83-32-9	Acenaphthene	45000	

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8MSD

`b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03MSD

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V9121013.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	32000	U
100-02-7	4-Nitrophenol	55000	
132-64-9	Dibenzofuran	4200	J
121-14-2	2,4-Dinitrotoluene	33000	
84-66-2	Diethylphthalate	13000	U
86-73-7	Fluorene	13000	U
7005-72-3	4-Chlorophenyl-phenylether	13000	U
100-01-6	4-Nitroaniline	32000	U
534-52-1	4,6-Dinitro-2-methylphenol	32000	U
86-30-6	N-Nitrosodiphenylamine (1)	13000	U
101-55-3	4-Bromophenyl-phenylether	13000	U
118-74-1	Hexachlorobenzene	13000	U
1912-24-9	Atrazine	13000	U
87-86-5	Pentachlorophenol	57000	
85-01-8	Phenanthrene	47000	
120-12-7	Anthracene	3600	J
86-74-8	Carbazole	13000	U
84-74-2	Di-n-butylphthalate	13000	U
206-44-0	Fluoranthene	2200	J
129-00-0	Pyrene	55000	
85-68-7	Butylbenzylphthalate	13000	U
91-94-1	3,3'-Dichlorobenzidine	13000	U
56-55-3	Benzo(a)anthracene	9300	J
218-01-9	Chrysene	15000	
117-81-7	bis(2-Ethylhexyl)phthalate	960	J
117-84-0	Di-n-octylphthalate	13000	U
205-99-2	Benzo(b)fluoranthene	3300	J
207-08-9	Benzo(k)fluoranthene	860	J
50-32-8	Benzo(a)pyrene	3400	J
193-39-5	Indeno(1,2,3-cd)pyrene	13000	U
53-70-3	Dibenz(a,h)anthracene	1600	J
191-24-2	Benzo(g,h,i)perylene	1600	J

(1) Cannot be seperated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120719.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	34	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	34	
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	
621-64-7	N-Nitroso-di-n-propylamine	24	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	48	
59-50-7	4-Chloro-3-methylphenol	34	
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	0.9	J
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	24	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120719.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

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

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	38	
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	23	
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	35	
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	~~0.5~~ 10	~~B~~ U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	21	
85-68-7	Butylbenzylphthalate	0.8	J
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~2~~ 10	~~B~~ U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01

Sample wt/vol: 30.5 (g/mL) G Lab File ID: H9120716.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	270	J
108-95-2	Phenol	670	
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	780	
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	1800	
621-64-7	N-Nitroso-di-n-propylamine	430	
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	550	
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	1200	
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	750	
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	300	J
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	59	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	2900	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01

Sample wt/vol: 30.5 (g/mL) G Lab File ID: H9120716.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	2100	
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	30	J
86-73-7	Fluorene	3000	
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	17000	E
120-12-7	Anthracene	5800	E
86-74-8	Carbazole	3100	
84-74-2	Di-n-butylphthalate	83	J
206-44-0	Fluoranthene	19000	E
129-00-0	Pyrene	17000	E
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	8000	E
218-01-9	Chrysene	7000	E
117-81-7	bis(2-Ethylhexyl)phthalate	4900	BE
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	7100	E
207-08-9	Benzo(k)fluoranthene	4700	E
50-32-8	Benzo(a)pyrene	6900	E
193-39-5	Indeno(1,2,3-cd)pyrene	4000	E
53-70-3	Dibenz(a,h)anthracene	1400	
191-24-2	Benzo(g,h,i)perylene	3900	E

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM6

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01

Sample wt/vol: 30.5 (g/mL) G Lab File ID: H9120716.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

Number TICs found: 30

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-	3.12	620	~~ABJN~~ 4
2.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.54	4000	~~ABJN~~ 4
3.		UNKNOWN	4.60	1300	BJ
4.		UNKNOWN	4.71	540	J
5.	90-00-6	PHENOL, 2-ETHYL-	7.25	460	JI
6.	90-12-0	NAPHTHALENE, 1-METHYL-	8.92	390	JN
7.	2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	11.06	370	JN
8.	115-96-8	TRI(2-CHLOROETHYL) PHOSPHATE	12.67	380	JN
9.	132-65-0	DIBENZOTHIOPHENE	12.73	570	JN
10.	6628-98-4	PYRENE, 4,5-DIHYDRO-	13.44	350	JN
11.	610-48-0	ANTHRACENE, 1-METHYL-	13.76	430	JN
12.		UNKNOWN PAH	13.91	1100	J
13.	243-17-4	11H-BENZO[B]FLUORENE	15.76	360	JN
14.		UNKNOWN AMIDE	16.37	380	BJ
15.		UNKNOWN PAH	18.29	910	J
16.		UNKNOWN PAH	18.53	450	J
17.	207-08-9	BENZO[]FLUORANTHENE	18.88	1100	JN
18.		UNKNOWN PAH	19.03	400	J
19.	192-97-2	BENZO[E]PYRENE	19.12	3400	JN
20.		UNKNOWN PAH	19.48	570	J
21.		UNKNOWN PAH	19.98	460	J
22.	215-58-7	BENZO[B]TRIPHENYLENE	20.46	990	JN
23.	215-58-7	BENZO[B]TRIPHENYLENE	20.73	660	JN
24.		UNKNOWN PAH	20.78	630	J
25.	191-26-4	DIBENZO[DEF,MNO]CHRYSENE	21.08	1100	JN
26.		UNKNOWN	22.31	570	BJ
27.	192-65-4	NAPHTHO[1,2,3,4-DEF]CHRYSENE	22.46	970	JN
28.		1,2:3,4-DIBENZPYRENE	22.57	820	JN
29.		1,2:4,5-DIBENZPYRENE	22.65	670	JN
30.	191-07-1	CORONENE	23.21	1700	JN

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01DL

Sample wt/vol: 30.5 (g/mL) G Lab File ID: H9120803.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

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

CAS NO.	COMPOUND		Q
100-52-7	Benzaldehyde	4300	U
108-95-2	Phenol	490	DJ
111-44-4	bis(2-Chloroethyl)ether	4300	U
95-57-8	2-Chlorophenol	4300	U
95-48-7	2-Methylphenol	530	DJ
108-60-1	2,2'-oxybis(1-Chloropropane)	4300	U
98-86-2	Acetophenone	4300	U
106-44-5	4-Methylphenol	1300	DJ
621-64-7	N-Nitroso-di-n-propylamine	4300	U
67-72-1	Hexachloroethane	4300	U
98-95-3	Nitrobenzene	4300	U
78-59-1	Isophorone	4300	U
88-75-5	2-Nitrophenol	4300	U
105-67-9	2,4-Dimethylphenol	410	DJ
111-91-1	bis(2-Chloroethoxy)methane	4300	U
120-83-2	2,4-Dichlorophenol	4300	U
91-20-3	Naphthalene	1100	DJ
106-47-8	4-Chloroaniline	4300	U
87-68-3	Hexachlorobutadiene	4300	U
105-60-2	Caprolactam	4300	U
59-50-7	4-Chloro-3-methylphenol	4300	U
91-57-6	2-Methylnaphthalene	660	DJ
77-47-4	Hexachlorocyclopentadiene	4300	U
88-06-2	2,4,6-Trichlorophenol	4300	U
95-95-4	2,4,5-Trichlorophenol	11000	U
92-52-4	1,1'-Biphenyl	320	DJ
91-58-7	2-Chloronaphthalene	4300	U
88-74-4	2-Nitroaniline	11000	U
131-11-3	Dimethylphthalate	4300	U
606-20-2	2,6-Dinitrotoluene	4300	U
208-96-8	Acenaphthylene	4300	U
99-09-2	3-Nitroaniline	11000	U
83-32-9	Acenaphthene	2800	DJ

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01DL

Sample wt/vol: 30.5 (g/mL) G Lab File ID: H9120803.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	11000	U
100-02-7	4-Nitrophenol	11000	U
132-64-9	Dibenzofuran	2200	DJ
121-14-2	2,4-Dinitrotoluene	4300	U
84-66-2	Diethylphthalate	4300	U
86-73-7	Fluorene	3400	DJ
7005-72-3	4-Chlorophenyl-phenylether	4300	U
100-01-6	4-Nitroaniline	11000	U
534-52-1	4,6-Dinitro-2-methylphenol	11000	U
86-30-6	N-Nitrosodiphenylamine (1)	4300	U
101-55-3	4-Bromophenyl-phenylether	4300	U
118-74-1	Hexachlorobenzene	4300	U
1912-24-9	Atrazine	4300	U
87-86-5	Pentachlorophenol	11000	U
85-01-8	Phenanthrene	22000	D
120-12-7	Anthracene	5600	D
86-74-8	Carbazole	3000	DJ
84-74-2	Di-n-butylphthalate	4300	U
206-44-0	Fluoranthene	22000	D
129-00-0	Pyrene	17000	D
85-68-7	Butylbenzylphthalate	4300	U
91-94-1	3,3'-Dichlorobenzidine	4300	U
56-55-3	Benzo(a)anthracene	7700	D
218-01-9	Chrysene	7900	D
117-81-7	bis(2-Ethylhexyl)phthalate	~~2600~~ 4300	~~BDJ~~ M
117-84-0	Di-n-octylphthalate	4300	U
205-99-2	Benzo(b)fluoranthene	7400	D
207-08-9	Benzo(k)fluoranthene	4200	DJ
50-32-8	Benzo(a)pyrene	7700	D
193-39-5	Indeno(1,2,3-cd)pyrene	3900	DJ
53-70-3	Dibenz(a,h)anthracene	1800	DJ
191-24-2	Benzo(g,h,i)perylene	4400	D

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM6DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01DL

Sample wt/vol: 30.5 (g/mL) G Lab File ID: H9120803.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 Extraction: (Type) SONC

Number TICs found: 30

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.53	4300	~~ABDJ~~N
2.		UNKNOWN PAH	13.87	2100	DJ
3.	10544-50-0	SULFUR, MOL. (S8)	14.75	2500	DJN
4.	835-06-3	PHENANTHRENE, -METHOXY-	15.06	2000	DJN
5.		UNKNOWN	15.28	1600	DJ
6.		UNKNOWN PAH	15.43	1700	DJ
7.	2381-21-7	PYRENE, -METHYL-	15.55	2400	DJN
8.	243-17-4	11H-BENZO[B]FLUORENE	15.72	5300	DJN
9.	243-17-4	11H-BENZO[B]FLUORENE	15.82	4900	DJN
10.		UNKNOWN	15.90	2100	DJ
11.		UNKNOWN	16.28	2600	DJ
12.		UNKNOWN AMIDE	16.33	3400	~~BDJ~~
13.		UNKNOWN	16.54	1600	DJ
14.	205-43-6	BENZO[B]NAPHTHO[1,2-D]THIOPH	16.70	2000	DJN
15.		UNKNOWN PAH	16.77	4500	DJ
16.		UNKNOWN PAH	16.98	1700	DJ
17.		UNKNOWN PAH	17.27	5400	DJ
18.		UNKNOWN PAH	17.42	1800	DJ
19.		UNKNOWN PAH	17.49	1700	DJ
20.		UNKNOWN PAH	17.74	1900	DJ
21.		UNKNOWN	17.80	2000	DJ
22.		UNKNOWN	17.89	2000	DJ
23.		UNKNOWN	17.95	1600	DJ
24.		UNKNOWN	17.97	1700	DJ
25.		UNKNOWN PAH	18.85	1700	DJ
26.	192-97-2	BENZO[E]PYRENE	19.09	4200	DJN
27.		UNKNOWN PAH	20.45	1500	DJ
28.		UNKNOWN PAH	20.74	1800	DJ
29.		UNKNOWN PAH	21.04	3500	DJ
30.	191-07-1	CORONENE	23.16	1500	DJN

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H9120717.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	370	J
108-95-2	Phenol	600	
111-44-4	bis(2-Chloroethyl)ether	430	U
95-57-8	2-Chlorophenol	430	U
95-48-7	2-Methylphenol	590	
108-60-1	2,2'-oxybis(1-Chloropropane)	430	U
98-86-2	Acetophenone	430	U
106-44-5	4-Methylphenol	1400	
621-64-7	N-Nitroso-di-n-propylamine	430	U
67-72-1	Hexachloroethane	430	U
98-95-3	Nitrobenzene	430	U
78-59-1	Isophorone	430	U
88-75-5	2-Nitrophenol	430	U
105-67-9	2,4-Dimethylphenol	450	
111-91-1	bis(2-Chloroethoxy)methane	430	U
120-83-2	2,4-Dichlorophenol	430	U
91-20-3	Naphthalene	560	
106-47-8	4-Chloroaniline	430	U
87-68-3	Hexachlorobutadiene	430	U
105-60-2	Caprolactam	430	U
59-50-7	4-Chloro-3-methylphenol	430	U
91-57-6	2-Methylnaphthalene	720	
77-47-4	Hexachlorocyclopentadiene	430	U
88-06-2	2,4,6-Trichlorophenol	430	U
95-95-4	2,4,5-Trichlorophenol	1100	U
92-52-4	1,1'-Biphenyl	140	J
91-58-7	2-Chloronaphthalene	430	U
88-74-4	2-Nitroaniline	1100	U
131-11-3	Dimethylphthalate	430	U
606-20-2	2,6-Dinitrotoluene	430	U
208-96-8	Acenaphthylene	160	J
99-09-2	3-Nitroaniline	1100	U
83-32-9	Acenaphthene	670	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM7

ıb Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H9120717.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1100	U
100-02-7	4-Nitrophenol	1100	U
132-64-9	Dibenzofuran	530	
121-14-2	2,4-Dinitrotoluene	430	U
84-66-2	Diethylphthalate	430	U
86-73-7	Fluorene	730	
7005-72-3	4-Chlorophenyl-phenylether	430	U
100-01-6	4-Nitroaniline	1100	U
534-52-1	4,6-Dinitro-2-methylphenol	1100	U
86-30-6	N-Nitrosodiphenylamine (1)	430	U
101-55-3	4-Bromophenyl-phenylether	430	U
118-74-1	Hexachlorobenzene	430	U
1912-24-9	Atrazine	430	U
87-86-5	Pentachlorophenol	1100	U
85-01-8	Phenanthrene	3700	E
120-12-7	Anthracene	1100	
86-74-8	Carbazole	600	
84-74-2	Di-n-butylphthalate	380	J
206-44-0	Fluoranthene	4200	E
129-00-0	Pyrene	3100	
85-68-7	Butylbenzylphthalate	430	U
91-94-1	3,3'-Dichlorobenzidine	430	U
56-55-3	Benzo(a)anthracene	1600	
218-01-9	Chrysene	1700	
117-81-7	bis(2-Ethylhexyl)phthalate	1300	B ✓
117-84-0	Di-n-octylphthalate	430	U
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	970	
50-32-8	Benzo(a)pyrene	1300	
193-39-5	Indeno(1,2,3-cd)pyrene	810	
53-70-3	Dibenz(a,h)anthracene	330	J
191-24-2	Benzo(g,h,i)perylene	850	

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM7

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H9120717.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

Number TICs found: 30

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-	3.12	780	~~ABJN~~ U
2.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.54	4300	~~ABJN~~ U
3.		UNKNOWN	4.60	1100	~~BJ~~ U
4.		UNKNOWN	4.71	450	
5.	95-36-3	1,2,4-TRIMETHYLBENZENE	5.13	410	JN
6.		UNKNOWN	5.30	300	J
7.	95-36-3	1,2,4-TRIMETHYLBENZENE	5.51	290	JN
8.	874-35-1	1H-INDENE, 2,3-DIHYDRO--METH	7.12	350	JN
9.	620-17-7	PHENOL, 3-ETHYL-	7.25	470	JN
10.	90-12-0	NAPHTHALENE, 1-METHYL-	8.92	650	JN
11.	581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	9.81	300	JN
12.	581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	9.96	380	JN
13.	2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	10.93	280	JN
14.	829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	11.07	440	JN
15.	829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	11.21	300	JN
16.		UNKNOWN	12.35	290	J
17.		UNKNOWN	12.55	370	J
18.	115-96-8	TRI(2-CHLOROETHYL) PHOSPHATE	12.66	270	JN
19.	832-64-4	PHENANTHRENE, 4-METHYL-	13.77	250	JN
20.		UNKNOWN PAH	13.90	540	J
21.		UNKNOWN AMIDE	15.31	250	J
22.	238-84-6	11H-BENZO[A]FLUORENE	15.75	330	JN
23.	13674-87-8	2-PROPANOL, 1,3-DICHLORO-, P	16.31	340	JN
24.		UNKNOWN AMIDE	16.36	1600	BJ ✓
25.		UNKNOWN	18.98	490	J
26.	192-97-2	BENZO[E]PYRENE	19.12	790	JN
27.		DIBENZO[A,I]PHENAZINE	19.78	680	JN
28.	53584-60-4	28-NOR-17.ALPHA.(H)-HOPANE	19.97	1200	JN
29.		UNKNOWN PAH	20.35	1700	J
30.	191-26-4	DIBENZO[DEF,MNO]CHRYSENE	21.07	560	JN

1-14-00

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM7DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02DL

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H9120804.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	860	U
108-95-2	Phenol	530	DJ
111-44-4	bis(2-Chloroethyl)ether	860	U
95-57-8	2-Chlorophenol	860	U
95-48-7	2-Methylphenol	510	DJ
108-60-1	2,2'-oxybis(1-Chloropropane)	860	U
98-86-2	Acetophenone	860	U
106-44-5	4-Methylphenol	1300	D
621-64-7	N-Nitroso-di-n-propylamine	860	U
67-72-1	Hexachloroethane	860	U
98-95-3	Nitrobenzene	860	U
78-59-1	Isophorone	860	U
88-75-5	2-Nitrophenol	860	U
105-67-9	2,4-Dimethylphenol	430	DJ
111-91-1	bis(2-Chloroethoxy)methane	860	U
120-83-2	2,4-Dichlorophenol	860	U
91-20-3	Naphthalene	520	DJ
106-47-8	4-Chloroaniline	860	U
87-68-3	Hexachlorobutadiene	860	U
105-60-2	Caprolactam	860	U
59-50-7	4-Chloro-3-methylphenol	860	U
91-57-6	2-Methylnaphthalene	790	DJ
77-47-4	Hexachlorocyclopentadiene	860	U
88-06-2	2,4,6-Trichlorophenol	860	U
95-95-4	2,4,5-Trichlorophenol	2200	U
92-52-4	1,1'-Biphenyl	140	DJ
91-58-7	2-Chloronaphthalene	860	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethylphthalate	860	U
606-20-2	2,6-Dinitrotoluene	860	U
208-96-8	Acenaphthylene	79	DJ
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	680	DJ

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM7DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02DL

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H9120804.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

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

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	550	DJ
121-14-2	2,4-Dinitrotoluene	860	U
84-66-2	Diethylphthalate	860	U
86-73-7	Fluorene	820	DJ
7005-72-3	4-Chlorophenyl-phenylether	860	U
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	860	U
101-55-3	4-Bromophenyl-phenylether	860	U
118-74-1	Hexachlorobenzene	860	U
1912-24-9	Atrazine	860	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	3600	D
120-12-7	Anthracene	1100	D
86-74-8	Carbazole	490	DJ
84-74-2	Di-n-butylphthalate	380	DJ
206-44-0	Fluoranthene	3900	D
129-00-0	Pyrene	3100	D
85-68-7	Butylbenzylphthalate	860	U
91-94-1	3,3'-Dichlorobenzidine	860	U
56-55-3	Benzo(a)anthracene	1500	D
218-01-9	Chrysene	1800	D
117-81-7	bis(2-Ethylhexyl)phthalate	870	BD
117-84-0	Di-n-octylphthalate	860	U
205-99-2	Benzo(b)fluoranthene	1200	D
207-08-9	Benzo(k)fluoranthene	1400	D
50-32-8	Benzo(a)pyrene	1400	D
193-39-5	Indeno(1,2,3-cd)pyrene	700	DJ
53-70-3	Dibenz(a,h)anthracene	310	DJ
191-24-2	Benzo(g,h,i)perylene	810	DJ

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM7DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02DL

Sample wt/vol: 30.3 (g/mL) G Lab File ID: H9120804.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 24 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.6 Extraction: (Type) SONC

Number TICs found: 30

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-	3.11	800	~~ABDJN~~	U
2.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.52	4900	~~ABDJN~~	U
3.		UNKNOWN	3.62	470	DJ	
4.		UNKNOWN	4.40	420	DJ	
5.		UNKNOWN	4.58	1200	~~BDJ~~	U
6.		UNKNOWN	4.70	480	DJ	
7.	620-14-4	BENZENE, 1-ETHYL-3-METHYL-	5.48	490	DJN	
8.	108-68-9	PHENOL, 3,5-DIMETHYL-	7.23	630	DJN	
9.	90-12-0	NAPHTHALENE, 1-METHYL-	8.90	820	DJN	
10.	575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	9.79	510	DJN	
11.	581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	9.93	570	DJN	
12.	2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	11.04	660	DJN	
13.	2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	11.18	430	DJN	
14.	490-65-3	NAPHTHALENE, 1-METHYL-7-(1-M	12.52	670	DJN	
15.	115-96-8	TRI(2-CHLOROETHYL) PHOSPHATE	12.63	490	DJN	
16.		UNKNOWN PAH	13.87	670	DJ	
17.	3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	14.61	490	DJN	
18.	243-17-4	11H-BENZO[B]FLUORENE	15.72	660	DJN	
19.	13674-87-8	2-PROPANOL, 1,3-DICHLORO-, P	16.28	490	DJN	
20.		UNKNOWN AMIDE	16.33	2300	BDJ	✓
21.		UNKNOWN	18.27	930	DJ	
22.		UNKNOWN	18.61	500	DJ	
23.		UNKNOWN	18.95	550	DJ	
24.	192-97-2	BENZO[E]PYRENE	19.09	900	DJN	
25.		UNKNOWN	19.64	610	DJ	
26.		DIBENZO[A,I]PHENAZINE	19.74	540	DJN	
27.		DIBENZO[A,I]PHENAZINE	19.79	800	DJN	
28.		UNKNOWN	19.94	660	DJ	
29.		UNKNOWN	20.32	920	~~BDJ~~	U
30.		UNKNOWN	22.27	490	~~BDJ~~	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V9121011.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	13000	U
108-95-2	Phenol	13000	U
111-44-4	bis(2-Chloroethyl)ether	13000	U
95-57-8	2-Chlorophenol	13000	U
95-48-7	2-Methylphenol	13000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	13000	U
98-86-2	Acetophenone	13000	U
106-44-5	4-Methylphenol	13000	
621-64-7	N-Nitroso-di-n-propylamine	13000	U
67-72-1	Hexachloroethane	13000	U
98-95-3	Nitrobenzene	13000	U
78-59-1	Isophorone	13000	U
88-75-5	2-Nitrophenol	13000	U
105-67-9	2,4-Dimethylphenol	13000	U
111-91-1	bis(2-Chloroethoxy)methane	13000	U
120-83-2	2,4-Dichlorophenol	13000	U
91-20-3	Naphthalene	6400	J
106-47-8	4-Chloroaniline	13000	U
87-68-3	Hexachlorobutadiene	13000	U
105-60-2	Caprolactam	13000	U
59-50-7	4-Chloro-3-methylphenol	13000	U
91-57-6	2-Methylnaphthalene	150000	E
77-47-4	Hexachlorocyclopentadiene	13000	U
88-06-2	2,4,6-Trichlorophenol	13000	U
95-95-4	2,4,5-Trichlorophenol	32000	U
92-52-4	1,1'-Biphenyl	13000	U
91-58-7	2-Chloronaphthalene	13000	U
88-74-4	2-Nitroaniline	32000	U
131-11-3	Dimethylphthalate	13000	U
606-20-2	2,6-Dinitrotoluene	13000	U
208-96-8	Acenaphthylene	13000	U
99-09-2	3-Nitroaniline	32000	U
83-32-9	Acenaphthene	7700	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8

b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V9121011.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	32000	U
100-02-7	4-Nitrophenol	32000	U
132-64-9	Dibenzofuran	6700	J
121-14-2	2,4-Dinitrotoluene	13000	U
84-66-2	Diethylphthalate	13000	U
86-73-7	Fluorene	18000	
7005-72-3	4-Chlorophenyl-phenylether	13000	U
100-01-6	4-Nitroaniline	32000	U
534-52-1	4,6-Dinitro-2-methylphenol	32000	U
86-30-6	N-Nitrosodiphenylamine (1)	13000	U
101-55-3	4-Bromophenyl-phenylether	13000	U
118-74-1	Hexachlorobenzene	13000	U
1912-24-9	Atrazine	13000	U
87-86-5	Pentachlorophenol	32000	U
85-01-8	Phenanthrene	74000	
120-12-7	Anthracene	5600	J
86-74-8	Carbazole	13000	U
84-74-2	Di-n-butylphthalate	13000	U
206-44-0	Fluoranthene	3400	J
129-00-0	Pyrene	18000	
85-68-7	Butylbenzylphthalate	13000	U
91-94-1	3,3'-Dichlorobenzidine	13000	U
56-55-3	Benzo(a)anthracene	15000	
218-01-9	Chrysene	23000	
117-81-7	bis(2-Ethylhexyl)phthalate	1200	J
117-84-0	Di-n-octylphthalate	13000	U
205-99-2	Benzo(b)fluoranthene	4800	J
207-08-9	Benzo(k)fluoranthene	13000	U
50-32-8	Benzo(a)pyrene	5200	J
193-39-5	Indeno(1,2,3-cd)pyrene	740	J
53-70-3	Dibenz(a,h)anthracene	2500	J
191-24-2	Benzo(g,h,i)perylene	2200	J

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03

Sample wt/vol: 1.0 (g/mL) G Lab File ID: V9121011.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/10/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 29

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	4.06	22000	J
2.	90-12-0	NAPHTHALENE, 1-METHYL-	6.56	19000	JN
3.	1127-76-0	NAPHTHALENE, 1-ETHYL-	7.63	42000	JN
4.	581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	7.78	68000	J
5.	581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	7.98	95000	JN
6.	582-16-1	NAPHTHALENE, 2,7-DIMETHYL-	8.02	46000	JN
7.	573-98-8	NAPHTHALENE, 1,2-DIMETHYL-	8.42	20000	JN
8.	2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	9.00	21000	JN
9.	2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	9.33	30000	JN
10.	2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	9.52	30000	JN
11.	2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	9.55	44000	JN
12.		UNKNOWN PAH	10.10	23000	J
13.		UNKNOWN PAH	10.65	31000	J
14.	529-05-5	AZULENE, 7-ETHYL-1,4-DIMETHY	10.87	17000	JN
15.	1730-37-6	9H-FLUORENE, 1-METHYL-	11.26	27000	JN
16.	4612-63-9	9H-FLUORENE, 2,3-DIMETHYL-	12.37	17000	JN
17.	16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	12.71	19000	JN
18.	613-12-7	ANTHRACENE, 2-METHYL-	13.07	23000	JN
19.	613-12-7	ANTHRACENE, 2-METHYL-	13.13	32000	JN
20.	1207-15-4	2,8-DIMETHYLDIBENZO(B,D)THIO	13.58	17000	JN
21.	3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	14.01	25000	JN
22.	3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	14.26	19000	JN
23.	3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	14.31	28000	JN
24.		UNKNOWN AMIDE	15.05	26000	~~BJ~~ U
25.	3674-73-5	PHENANTHRENE, 2,3,5-TRIMETHY	15.13	31000	JN
26.		UNKNOWN AMIDE	15.19	49000	~~BJ~~ U
27.		UNKNOWN AMIDE	16.54	240000	~~BJ~~ U
28.	2498-77-3	BENZ[A]ANTHRACENE, 1-METHYL-	18.24	27000	JN
29.		UNKNOWN	24.07	300000	~~BJ~~ U
30.					

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: J9121318.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	25000	U
108-95-2	Phenol	25000	U
111-44-4	bis(2-Chloroethyl)ether	25000	U
95-57-8	2-Chlorophenol	25000	U
95-48-7	2-Methylphenol	25000	U
108-60-1	2,2'-oxybis(1-Chloropropane)	25000	U
98-86-2	Acetophenone	25000	U
106-44-5	4-Methylphenol	25000	U
621-64-7	N-Nitroso-di-n-propylamine	25000	U
67-72-1	Hexachloroethane	25000	U
98-95-3	Nitrobenzene	25000	U
78-59-1	Isophorone	25000	U
88-75-5	2-Nitrophenol	25000	U
105-67-9	2,4-Dimethylphenol	25000	U
111-91-1	bis(2-Chloroethoxy)methane	25000	U
120-83-2	2,4-Dichlorophenol	25000	U
91-20-3	Naphthalene	5800	DJ
106-47-8	4-Chloroaniline	25000	U
87-68-3	Hexachlorobutadiene	25000	U
105-60-2	Caprolactam	25000	U
59-50-7	4-Chloro-3-methylphenol	25000	U
91-57-6	2-Methylnaphthalene	140000	D
77-47-4	Hexachlorocyclopentadiene	25000	U
88-06-2	2,4,6-Trichlorophenol	25000	U
95-95-4	2,4,5-Trichlorophenol	63000	U
92-52-4	1,1'-Biphenyl	25000	U
91-58-7	2-Chloronaphthalene	25000	U
88-74-4	2-Nitroaniline	63000	U
131-11-3	Dimethylphthalate	25000	U
606-20-2	2,6-Dinitrotoluene	25000	U
208-96-8	Acenaphthylene	25000	U
99-09-2	3-Nitroaniline	63000	U
83-32-9	Acenaphthene	8100	DJ

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: J9121318.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	63000	U
100-02-7	4-Nitrophenol	63000	U
132-64-9	Dibenzofuran	7000	DJ
121-14-2	2,4-Dinitrotoluene	25000	U
84-66-2	Diethylphthalate	25000	U
86-73-7	Fluorene	16000	DJ
7005-72-3	4-Chlorophenyl-phenylether	25000	U
100-01-6	4-Nitroaniline	63000	U
534-52-1	4,6-Dinitro-2-methylphenol	63000	U
86-30-6	N-Nitrosodiphenylamine (1)	25000	U
101-55-3	4-Bromophenyl-phenylether	25000	U
118-74-1	Hexachlorobenzene	25000	U
1912-24-9	Atrazine	25000	U
87-86-5	Pentachlorophenol	63000	U
85-01-8	Phenanthrene	66000	D
120-12-7	Anthracene	25000	U
86-74-8	Carbazole	25000	U
84-74-2	Di-n-butylphthalate	25000	U
206-44-0	Fluoranthene	4400	DJ
129-00-0	Pyrene	14000	DJ
85-68-7	Butylbenzylphthalate	25000	U
91-94-1	3,3'-Dichlorobenzidine	25000	U
56-55-3	Benzo(a)anthracene	13000	DJ
218-01-9	Chrysene	21000	DJ
117-81-7	bis(2-Ethylhexyl)phthalate	1700	DJ
117-84-0	Di-n-octylphthalate	25000	U
205-99-2	Benzo(b)fluoranthene	6500	DJ
207-08-9	Benzo(k)fluoranthene	25000	U
50-32-8	Benzo(a)pyrene	5300	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	25000	U
53-70-3	Dibenz(a,h)anthracene	2300	DJ
191-24-2	Benzo(g,h,i)perylene	2100	DJ

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM8DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03DL

Sample wt/vol: 1.0 (g/mL) G Lab File ID: J9121318.D

Level: (low/med) MED Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 12/09/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/13/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.9 Extraction: (Type) SONC

Number TICs found: 21

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	7.25	40000	DJN
2.	99-87-6	BENZENE, 1-METHYL-4-(1-METHY	7.77	90000	DJN
3.		UNKNOWN	9.29	58000	DJ
4.	2613-76-5	1H-INDENE, 2,3-DIHYDRO-1,1,3	9.44	60000	DJN
5.	90-12-0	NAPHTHALENE, 1-METHYL-	9.70	120000	DJN
6.	575-43-9	NAPHTHALENE, 1,6-DIMETHYL-	10.66	63000	DJN
7.	581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	10.80	63000	DJN
8.	582-16-1	NAPHTHALENE, 2,7-DIMETHYL-	10.85	56000	DJN
9.	829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	12.03	53000	DJN
10.	1730-37-6	9H-FLUORENE, 1-METHYL-	13.33	36000	DJN
11.		UNKNOWN	13.41	110000	DJ
12.	4612-63-9	9H-FLUORENE, 2,3-DIMETHYL-	14.25	38000	DJN
13.	613-12-7	ANTHRACENE, 2-METHYL-	14.91	88000	DJN
14.	613-12-7	ANTHRACENE, 2-METHYL-	14.95	86000	DJN
15.	832-69-9	PHENANTHRENE, 1-METHYL-	15.11	77000	DJN
16.	613-12-7	ANTHRACENE, 2-METHYL-	15.14	79000	DJN
17.	3674-69-9	PHENANTHRENE, 4,5-DIMETHYL-	15.69	50000	DJN
18.	1576-69-8	PHENANTHRENE, 2,7-DIMETHYL-	15.76	110000	DJN
19.	3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	15.89	70000	DJN
20.		UNKNOWN AMIDE	17.66	88000	~~BDJ~~ U
21.	123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	25.25	150000	~~BDJN~~ U
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.04

Sample wt/vol: 30.2 (g/mL) G Lab File ID: H9120719.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	120	J
108-95-2	Phenol	35	J
111-44-4	bis(2-Chloroethyl)ether	410	U
95-57-8	2-Chlorophenol	410	U
95-48-7	2-Methylphenol	410	U
108-60-1	2,2'-oxybis(1-Chloropropane)	410	U
98-86-2	Acetophenone	410	
106-44-5	4-Methylphenol	35	
621-64-7	N-Nitroso-di-n-propylamine	410	U
67-72-1	Hexachloroethane	410	U
98-95-3	Nitrobenzene	410	U
78-59-1	Isophorone	410	U
88-75-5	2-Nitrophenol	410	U
105-67-9	2,4-Dimethylphenol	410	U
111-91-1	bis(2-Chloroethoxy)methane	410	U
120-83-2	2,4-Dichlorophenol	410	U
91-20-3	Naphthalene	160	J
106-47-8	4-Chloroaniline	410	U
87-68-3	Hexachlorobutadiene	410	U
105-60-2	Caprolactam	410	U
59-50-7	4-Chloro-3-methylphenol	410	U
91-57-6	2-Methylnaphthalene	520	
77-47-4	Hexachlorocyclopentadiene	410	U
88-06-2	2,4,6-Trichlorophenol	410	U
95-95-4	2,4,5-Trichlorophenol	1000	U
92-52-4	1,1'-Biphenyl	39	J
91-58-7	2-Chloronaphthalene	410	U
88-74-4	2-Nitroaniline	1000	U
131-11-3	Dimethylphthalate	410	U
606-20-2	2,6-Dinitrotoluene	410	U
208-96-8	Acenaphthylene	410	U
99-09-2	3-Nitroaniline	1000	U
83-32-9	Acenaphthene	590	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.04

Sample wt/vol: 30.2 (g/mL) G Lab File ID: H9120719.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

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	110	J
121-14-2	2,4-Dinitrotoluene	410	U
84-66-2	Diethylphthalate	21	J
86-73-7	Fluorene	240	J
7005-72-3	4-Chlorophenyl-phenylether	410	U
100-01-6	4-Nitroaniline	1000	U
534-52-1	4,6-Dinitro-2-methylphenol	1000	U
86-30-6	N-Nitrosodiphenylamine (1)	410	U
101-55-3	4-Bromophenyl-phenylether	410	U
118-74-1	Hexachlorobenzene	410	U
1912-24-9	Atrazine	410	U
87-86-5	Pentachlorophenol	1000	U
85-01-8	Phenanthrene	800	
120-12-7	Anthracene	220	J
86-74-8	Carbazole	95	J
84-74-2	Di-n-butylphthalate	230	J
206-44-0	Fluoranthene	770	
129-00-0	Pyrene	810	
85-68-7	Butylbenzylphthalate	3200	
91-94-1	3,3'-Dichlorobenzidine	410	U
56-55-3	Benzo(a)anthracene	580	
218-01-9	Chrysene	620	
117-81-7	bis(2-Ethylhexyl)phthalate	950	B
117-84-0	Di-n-octylphthalate	410	U
205-99-2	Benzo(b)fluoranthene	370	J
207-08-9	Benzo(k)fluoranthene	260	J
50-32-8	Benzo(a)pyrene	500	
193-39-5	Indeno(1,2,3-cd)pyrene	260	J
53-70-3	Dibenz(a,h)anthracene	260	J
191-24-2	Benzo(g,h,i)perylene	380	J

(1) Cannot be seperated from Diphenylamine

1G
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAM9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.04

Sample wt/vol: 30.2 (g/mL) G Lab File ID: H9120719.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 21 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.8 Extraction: (Type) SONC

Number TICs found: 30

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-	3.13	600	~~ABJN~~
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.53	3700	~~ABJN~~
3.	UNKNOWN	3.62	460	J
4.	UNKNOWN	4.59	1300	~~B~~
5.	UNKNOWN	4.71	540	J
6.	UNKNOWN	5.29	250	J
7.	UNKNOWN	5.82	560	J
8.	UNKNOWN HYDROCARBON	8.17	420	J
9. 90-12-0	NAPHTHALENE, 1-METHYL-	8.93	460	JN
10. 1127-76-0	NAPHTHALENE, 1-ETHYL-	9.72	280	JN
11. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	9.82	330	JN
12. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	9.95	400	JN
13. 872-05-9	1-DECENE	10.30	860	JN
14. 2131-41-1	NAPHTHALENE, 1,4,5-TRIMETHYL	10.89	300	JN
15. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	10.93	310	JN
16.	UNKNOWN	13.11	600	J
17. 16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	13.45	280	JN
18. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	14.64	310	JN
19. 10544-50-0	SULFUR, MOL. (S8)	14.79	390	JN
20.	UNKNOWN AMIDE	15.31	950	J
21. 2381-21-7	PYRENE, 1-METHYL-	15.75	340	JN
22. 13674-87-8	2-PROPANOL, 1,3-DICHLORO-, P	16.33	7500	JN
23. 13674-87-8	2-PROPANOL, 1,3-DICHLORO-, P	16.58	590	JN
24. 3351-32-4	2-METHYLCHRYSENE	17.78	390	JN
25.	UNKNOWN PAH	18.99	390	J
26. 205-99-2	BENZ[E]ACEPHENANTHRYLENE	19.11	460	JN
27.	UNKNOWN	19.98	310	J
28.	UNKNOWN	20.07	360	J
29.	UNKNOWN	20.34	530	~~BJ~~
30. 123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	22.33	3600	JN

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H9120720.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 12.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	610	U
108-95-2	Phenol	1600	
111-44-4	bis(2-Chloroethyl)ether	610	U
95-57-8	2-Chlorophenol	610	U
95-48-7	2-Methylphenol	610	U
108-60-1	2,2'-oxybis(1-Chloropropane)	610	U
98-86-2	Acetophenone	610	U
106-44-5	4-Methylphenol	640	
621-64-7	N-Nitroso-di-n-propylamine	610	U
67-72-1	Hexachloroethane	610	U
98-95-3	Nitrobenzene	610	U
78-59-1	Isophorone	610	U
88-75-5	2-Nitrophenol	610	U
105-67-9	2,4-Dimethylphenol	610	U
111-91-1	bis(2-Chloroethoxy)methane	610	U
120-83-2	2,4-Dichlorophenol	610	U
91-20-3	Naphthalene	6200	E
106-47-8	4-Chloroaniline	610	U
87-68-3	Hexachlorobutadiene	610	U
105-60-2	Caprolactam	610	U
59-50-7	4-Chloro-3-methylphenol	610	U
91-57-6	2-Methylnaphthalene	10000	E
77-47-4	Hexachlorocyclopentadiene	610	U
88-06-2	2,4,6-Trichlorophenol	610	U
95-95-4	2,4,5-Trichlorophenol	1500	U
92-52-4	1,1'-Biphenyl	960	
91-58-7	2-Chloronaphthalene	610	U
88-74-4	2-Nitroaniline	1500	U
131-11-3	Dimethylphthalate	610	U
606-20-2	2,6-Dinitrotoluene	610	U
208-96-8	Acenaphthylene	610	U
99-09-2	3-Nitroaniline	1500	U
83-32-9	Acenaphthene	3000	

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H9120720.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 12.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	1500	U
100-02-7	4-Nitrophenol	1500	U
132-64-9	Dibenzofuran	2100	
121-14-2	2,4-Dinitrotoluene	610	U
84-66-2	Diethylphthalate	610	U
86-73-7	Fluorene	3900	
7005-72-3	4-Chlorophenyl-phenylether	610	U
100-01-6	4-Nitroaniline	1500	U
534-52-1	4,6-Dinitro-2-methylphenol	1500	U
86-30-6	N-Nitrosodiphenylamine (1)	610	U
101-55-3	4-Bromophenyl-phenylether	610	U
118-74-1	Hexachlorobenzene	610	U
1912-24-9	Atrazine	610	U
87-86-5	Pentachlorophenol	1500	U
85-01-8	Phenanthrene	14000	E
120-12-7	Anthracene	5800	E
86-74-8	Carbazole	2200	
84-74-2	Di-n-butylphthalate	670	
206-44-0	Fluoranthene	12000	E
129-00-0	Pyrene	11000	E
85-68-7	Butylbenzylphthalate	610	U
91-94-1	3,3'-Dichlorobenzidine	610	U
56-55-3	Benzo(a)anthracene	6400	E
218-01-9	Chrysene	6600	E
117-81-7	bis(2-Ethylhexyl)phthalate	1600	B
117-84-0	Di-n-octylphthalate	610	U
205-99-2	Benzo(b)fluoranthene	4700	
207-08-9	Benzo(k)fluoranthene	3700	
50-32-8	Benzo(a)pyrene	5000	E
193-39-5	Indeno(1,2,3-cd)pyrene	2700	
53-70-3	Dibenz(a,h)anthracene	1300	
191-24-2	Benzo(g,h,i)perylene	2700	

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAN0

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H9120720.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 12.3 Extraction: (Type) SONC

Number TICs found: 30

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-	3.13	770	~~ABJN~~ u
2.		UNKNOWN	3.32	630	J
3.		UNKNOWN	3.45	1100	J
4.		UNKNOWN	3.68	47000	J
5.		UNKNOWN	4.62	450	~~BJ~~ u
6.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	6.65	620	JN
7.	933-98-2	BENZENE, 1-ETHYL-2,3-DIMETHY	6.69	580	JN
8.	95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	6.74	1300	JN
9.	2958-76-1	NAPHTHALENE, DECAHYDRO-2-MET	6.85	570	JN
10.	3333-13-9	BENZENE, 1-METHYL-4-(2-PROPE	6.99	1100	JN
11.	2039-89-6	BENZENE, 2-ETHENYL-1,4-DIMET	7.12	1600	JN
12.	4920-99-4	BENZENE, 1-ETHYL-3-(1-METHYL	7.65	970	JN
13.	54120-62-6	BENZENE, ETHYL-1,2,4-TRIMETH	7.79	540	JN
14.		UNKNOWN ALKYL BENZENE	7.89	540	J
15.		UNKNOWN	8.17	2400	J
16.		UNKNOWN	8.43	720	J
17.	24949-42-6	6-TRIDECENE, 7-METHYL-	8.51	860	JN
18.	700-12-9	BENZENE, PENTAMETHYL-	8.58	2300	JN
19.	90-12-0	NAPHTHALENE, 1-METHYL-	8.94	2800	JN
20.	16587-52-3	DIBENZOTHIOPHENE, 3-METHYL-	13.46	550	JN
21.	613-12-7	ANTHRACENE, 2-METHYL-	13.78	520	JN
22.	610-48-0	ANTHRACENE, -METHYL-	13.92	630	JN
23.	3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	14.65	600	JN
24.	112-80-1	OLEIC ACID	15.05	500	JN
25.		UNKNOWN AMIDE	16.37	1400	~~BJ~~ u
26.	1705-85-7	CHRYSENE, 6-METHYL-	17.79	710	JN
27.	192-97-2	BENZO[E]PYRENE	19.12	2300	JN
28.	53584-60-4	28-NOR-17.ALPHA.(H)-HOPANE	19.99	1300	JN
29.		UNKNOWN	20.35	2700	BJ
30.		UNKNOWN	21.08	1400	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN0DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05DL

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H9120806.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 12.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	3100	U
108-95-2	Phenol	380	DJ
111-44-4	bis(2-Chloroethyl)ether	3100	U
95-57-8	2-Chlorophenol	3100	U
95-48-7	2-Methylphenol	3100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3100	U
98-86-2	Acetophenone	3100	U
106-44-5	4-Methylphenol	160	DJ
621-64-7	N-Nitroso-di-n-propylamine	3100	U
67-72-1	Hexachloroethane	3100	U
98-95-3	Nitrobenzene	3100	U
78-59-1	Isophorone	3100	U
88-75-5	2-Nitrophenol	3100	U
105-67-9	2,4-Dimethylphenol	3100	U
111-91-1	bis(2-Chloroethoxy)methane	3100	U
120-83-2	2,4-Dichlorophenol	3100	U
91-20-3	Naphthalene	1900	DJ
106-47-8	4-Chloroaniline	3100	U
87-68-3	Hexachlorobutadiene	3100	U
105-60-2	Caprolactam	3100	U
59-50-7	4-Chloro-3-methylphenol	3100	U
91-57-6	2-Methylnaphthalene	3400	D
77-47-4	Hexachlorocyclopentadiene	3100	U
88-06-2	2,4,6-Trichlorophenol	3100	U
95-95-4	2,4,5-Trichlorophenol	7700	U
92-52-4	1,1'-Biphenyl	260	DJ
91-58-7	2-Chloronaphthalene	3100	U
88-74-4	2-Nitroaniline	7700	U
131-11-3	Dimethylphthalate	3100	U
606-20-2	2,6-Dinitrotoluene	3100	U
208-96-8	Acenaphthylene	3100	U
99-09-2	3-Nitroaniline	7700	U
83-32-9	Acenaphthene	910	DJ

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN0DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05DL

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H9120806.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 12.3 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	7700	U
100-02-7	4-Nitrophenol	7700	U
132-64-9	Dibenzofuran	590	DJ
121-14-2	2,4-Dinitrotoluene	3100	U
84-66-2	Diethylphthalate	3100	U
86-73-7	Fluorene	1200	DJ
7005-72-3	4-Chlorophenyl-phenylether	3100	U
100-01-6	4-Nitroaniline	7700	U
534-52-1	4,6-Dinitro-2-methylphenol	7700	U
86-30-6	N-Nitrosodiphenylamine (1)	3100	U
101-55-3	4-Bromophenyl-phenylether	3100	U
118-74-1	Hexachlorobenzene	3100	U
1912-24-9	Atrazine	3100	U
87-86-5	Pentachlorophenol	7700	U
85-01-8	Phenanthrene	4400	D
120-12-7	Anthracene	1600	DJ
86-74-8	Carbazole	690	DJ
84-74-2	Di-n-butylphthalate	190	DJ
206-44-0	Fluoranthene	4200	D
129-00-0	Pyrene	2800	DJ
85-68-7	Butylbenzylphthalate	3100	U
91-94-1	3,3'-Dichlorobenzidine	3100	U
56-55-3	Benzo(a)anthracene	1900	DJ
218-01-9	Chrysene	2100	DJ
117-81-7	bis(2-Ethylhexyl)phthalate	3100 ~~270~~	BDJ
117-84-0	Di-n-octylphthalate	3100	U
205-99-2	Benzo(b)fluoranthene	1500	DJ
207-08-9	Benzo(k)fluoranthene	1100	DJ
50-32-8	Benzo(a)pyrene	1700	DJ
193-39-5	Indeno(1,2,3-cd)pyrene	760	DJ
53-70-3	Dibenz(a,h)anthracene	3100	U
191-24-2	Benzo(g,h,i)perylene	810	DJ

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAN0DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05DL

Sample wt/vol: 30.6 (g/mL) G Lab File ID: H9120806.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 47 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) Y pH: 12.3 Extraction: (Type) SONC

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.31	2400	DJ
2. 123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.52	140000	~~ABDJN~~
3. 488-23-3	BENZENE, 1,2,3,4-TETRAMETHYL	6.71	830	DJN
4. 2039-89-6	BENZENE, 2-ETHENYL-1,4-DIMET	7.09	1200	DJ
5.	UNKNOWN	8.48	790	DJ
6.	UNKNOWN	8.53	1100	DJ
7. 90-12-0	NAPHTHALENE, 1-METHYL-	8.89	1900	DJN
8.	UNKNOWN HYDROCARBON	9.11	1200	DJ
9. 939-27-5	NAPHTHALENE, 2-ETHYL-	9.68	1200	DJN
10. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	9.79	1300	DJN
11. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	9.93	1400	DJN
12. 571-61-9	NAPHTHALENE, 1,5-DIMETHYL-	9.95	1000	DJN
13. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	10.11	760	DJN
14. 1127-76-0	NAPHTHALENE, 1-ETHYL-	10.26	780	DJN
15. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	10.67	880	DJN
16. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	10.90	1200	DJN
17. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	11.06	1400	DJN
18. 1430-97-3	9H-FLUORENE, 2-METHYL-	12.32	890	DJN
19.	1,1'-BIPHENYL, 3-CARBOXY ACI	13.54	830	DJN
20. 2531-84-2	PHENANTHRENE, 2-METHYL-	13.73	1000	DJN
21. 832-64-4	PHENANTHRENE, 4-METHYL-	13.87	1300	DJN
22. 3674-66-6	PHENANTHRENE, 2,5-DIMETHYL-	14.60	1100	DJN
23. 2381-21-7	PYRENE, 1-METHYL-	15.72	1200	DJN
24.	UNKNOWN PAH	17.74	750	DJ
25. 192-97-2	BENZO[E]PYRENE	19.08	1400	DJN
26.	UNKNOWN	19.62	1500	DJ
27.	UNKNOWN	19.95	820	DJ
28.	UNKNOWN	20.04	840	DJ
29.	UNKNOWN	20.31	750	DJ
30.	UNKNOWN	21.29	780	DJ

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN1

ab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.06

Sample wt/vol: 32.0 (g/mL) G Lab File ID: H9120721.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 9.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
100-52-7	Benzaldehyde	87	J
108-95-2	Phenol	360	U
111-44-4	bis(2-Chloroethyl)ether	360	U
95-57-8	2-Chlorophenol	360	U
95-48-7	2-Methylphenol	360	U
108-60-1	2,2'-oxybis(1-Chloropropane)	360	U
98-86-2	Acetophenone	42	J
106-44-5	4-Methylphenol	360	U
621-64-7	N-Nitroso-di-n-propylamine	360	U
67-72-1	Hexachloroethane	360	U
98-95-3	Nitrobenzene	360	U
78-59-1	Isophorone	360	U
88-75-5	2-Nitrophenol	360	U
105-67-9	2,4-Dimethylphenol	360	U
111-91-1	bis(2-Chloroethoxy)methane	360	U
120-83-2	2,4-Dichlorophenol	360	U
91-20-3	Naphthalene	41	J
106-47-8	4-Chloroaniline	360	U
87-68-3	Hexachlorobutadiene	360	U
105-60-2	Caprolactam	360	U
59-50-7	4-Chloro-3-methylphenol	360	U
91-57-6	2-Methylnaphthalene	71	J
77-47-4	Hexachlorocyclopentadiene	360	U
88-06-2	2,4,6-Trichlorophenol	360	U
95-95-4	2,4,5-Trichlorophenol	920	U
92-52-4	1,1'-Biphenyl	360	U
91-58-7	2-Chloronaphthalene	360	U
88-74-4	2-Nitroaniline	920	U
131-11-3	Dimethylphthalate	360	U
606-20-2	2,6-Dinitrotoluene	360	U
208-96-8	Acenaphthylene	77	J
99-09-2	3-Nitroaniline	920	U
83-32-9	Acenaphthene	27	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.06

Sample wt/vol: 32.0 (g/mL) G Lab File ID: H9120721.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 9.8 Extraction: (Type) SONC

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	920	U
100-02-7	4-Nitrophenol	920	U
132-64-9	Dibenzofuran	360	U
121-14-2	2,4-Dinitrotoluene	360	U
84-66-2	Diethylphthalate	360	U
86-73-7	Fluorene	64	J
7005-72-3	4-Chlorophenyl-phenylether	360	U
100-01-6	4-Nitroaniline	920	U
534-52-1	4,6-Dinitro-2-methylphenol	920	
86-30-6	N-Nitrosodiphenylamine (1)	360	U
101-55-3	4-Bromophenyl-phenylether	360	U
118-74-1	Hexachlorobenzene	360	U
1912-24-9	Atrazine	360	U
87-86-5	Pentachlorophenol	920	U
85-01-8	Phenanthrene	130	J
120-12-7	Anthracene	54	J
86-74-8	Carbazole	37	J
84-74-2	Di-n-butylphthalate	28	J
206-44-0	Fluoranthene	180	J
129-00-0	Pyrene	190	J
85-68-7	Butylbenzylphthalate	360	U
91-94-1	3,3'-Dichlorobenzidine	360	U
56-55-3	Benzo(a)anthracene	140	J
218-01-9	Chrysene	160	J
117-81-7	bis(2-Ethylhexyl)phthalate	~~130~~ 360	~~BJ~~ U
117-84-0	Di-n-octylphthalate	360	U
205-99-2	Benzo(b)fluoranthene	160	J
207-08-9	Benzo(k)fluoranthene	97	J
50-32-8	Benzo(a)pyrene	160	J
193-39-5	Indeno(1,2,3-cd)pyrene	120	J
53-70-3	Dibenz(a,h)anthracene	68	J
191-24-2	Benzo(g,h,i)perylene	120	J

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAN1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.06

Sample wt/vol: 32.0 (g/mL) G Lab File ID: H9120721.D

Level: (low/med) LOW Date Received: 11/30/99

% Moisture: 15 decanted: (Y/N) N Date Extracted: 11/30/99

Concentrated Extract Volume: 500 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 9.8 Extraction: (Type) SONC

Number TICs found: 30

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.		UNKNOWN	3.09	290	J	
2.	141-79-7	3-PENTEN-2-ONE, 4-METHYL-	3.13	520	~~ABJN~~	U
3.		UNKNOWN	3.33	170	J	
4.		UNKNOWN	3.40	210	J	
5.	123-42-2	2-PENTANONE, 4-HYDROXY-4-MET	3.54	4400	~~ABJN~~	U
6.		UNKNOWN	3.63	150	J	
7.		UNKNOWN	4.41	530	J	
8.		UNKNOWN	4.60	1500	~~BJ~~	U
9.		UNKNOWN	5.83	890	J	
10.		UNKNOWN	12.55	140	J	
11.	57-10-3	HEXADECANOIC ACID	13.91	340	JN	
12.		UNKNOWN ORGANIC ACID	15.04	410	J	
13.		UNKNOWN	15.10	400	J	
14.		UNKNOWN AMIDE	15.32	510	J	
15.		UNKNOWN PAH	15.75	180	J	
16.		UNKNOWN PAH	15.86	180	J	
17.		UNKNOWN PAH	16.28	220	J	
18.		UNKNOWN AMIDE	16.37	4200	BJ	✓
19.		UNKNOWN	16.55	190	J	
20.		UNKNOWN	16.96	220	~~BJ~~	U
21.		UNKNOWN	18.31	150	J	
22.		UNKNOWN PAH	19.67	440	J	
23.		UNKNOWN	19.86	240	J	
24.		UNKNOWN	19.99	240	J	
25.		UNKNOWN	20.08	220	J	
26.		UNKNOWN	20.34	200	~~BJ~~	U
27.		UNKNOWN PAH	20.77	660	J	
28.		UNKNOWN	21.08	210	J	
29.	123-28-4	PROPANOIC ACID, 3,3'-THIOBIS	22.33	1300	JN	
30.		UNKNOWN	22.42	130	J	

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120717.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	76	
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1

b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120717.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	~~2~~ 10	~~B~~ U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~0.6~~ 10	~~B~~ U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120717.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.72	4	~~BJ~~ 4
2.	UNKNOWN	4.86	4	~~BJ~~ 4
3.	UNKNOWN	14.27	3	J
4.	UNKNOWN	17.68	3	ST 1-14-00
5.				
6.				
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1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120723.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	4	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	110	E
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	19	
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	4	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP2

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120723.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	3	J
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	6	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	7	J
120-12-7	Anthracene	10	U
86-74-8	Carbazole	2	J
84-74-2	Di-n-butylphthalate	~~1~~ 10	~~BJ~~ U
206-44-0	Fluoranthene	0.8	J
129-00-0	Pyrene	2	J
85-68-7	Butylbenzylphthalate	0.7	J
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	2	J
218-01-9	Chrysene	3	J
117-81-7	bis(2-Ethylhexyl)phthalate	46	B ~~BU~~
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	1	J
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	0.8	J
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP2

ab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120723.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 21400-25-9	1-PROPENE, 1,1,2-TRICHLORO-	5.24	10	JN
2. 103-65-1	BENZENE, PROPYL-	5.32	6	JN
3. 1758-88-9	BENZENE, 2-ETHYL-1,4-DIMETHY	7.09	8	JN
4. 95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	7.51	17	JN
5. 2039-89-6	BENZENE, 2-ETHENYL-1,4-DIMET	7.83	7	JN
6. 95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	7.99	13	JN
7.	UNKNOWN ALKYL BENZENE	8.52	7	J
8.	UNKNOWN ALKYL BENZENE	9.51	5	J
9.	UNKNOWN	9.66	13	J
10. 90-12-0	NAPHTHALENE, 1-METHYL-	9.93	34	JN
11.	UNKNOWN	10.08	5	J
12.	UNKNOWN	10.16	7	J
13.	UNKNOWN	10.53	5	J
14. 1127-76-0	NAPHTHALENE, 1-ETHYL-	10.82	6	JN
15. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	10.88	22	JN
16. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	11.05	32	JN
17. 582-16-1	NAPHTHALENE, 2,7-DIMETHYL-	11.08	14	JN
18. 575-41-7	NAPHTHALENE, 1,3-DIMETHYL-	11.25	8	JN
19. 939-27-5	NAPHTHALENE, 2-ETHYL-	11.41	11	JN
20. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	11.84	10	JN
21. 829-26-5	NAPHTHALENE, -TRIMETHYL-	11.89	7	JN
22. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	11.95	7	JN
23. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	12.09	12	JN
24. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	12.26	20	JN
25. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	12.40	7	JN
26. 643-58-3	1,1'-BIPHENYL, -METHYL-	12.75	15	JN
27.	UNKNOWN	12.80	7	J
28.	UNKNOWN	12.92	11	J
29.	UNKNOWN	17.66	7	J
30. 13674-87-8	2-PROPANOL, 1,3-DICHLORO-, P	17.91	6	JN

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP2DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120808.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	20	U
108-95-2	Phenol	20	U
111-44-4	bis(2-Chloroethyl)ether	20	U
95-57-8	2-Chlorophenol	20	U
95-48-7	2-Methylphenol	20	U
108-60-1	2,2'-oxybis(1-Chloropropane)	20	U
98-86-2	Acetophenone	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-di-n-propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
111-91-1	bis(2-Chloroethoxy)methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
91-20-3	Naphthalene	4	DJ
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
105-60-2	Caprolactam	90	D
59-50-7	4-Chloro-3-methylphenol	20	U
91-57-6	2-Methylnaphthalene	17	DJ
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	50	U
92-52-4	1,1'-Biphenyl	20	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	20	U
606-20-2	2,6-Dinitrotoluene	20	U
208-96-8	Acenaphthylene	20	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	3	DJ

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP2DL

ıb Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120808.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	3	DJ
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
86-73-7	Fluorene	6	DJ
7005-72-3	4-Chlorophenyl-phenylether	20	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	20	U
101-55-3	4-Bromophenyl-phenylether	20	U
118-74-1	Hexachlorobenzene	20	U
1912-24-9	Atrazine	20	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	7	DJ
120-12-7	Anthracene	20	U
86-74-8	Carbazole	2	DJ
84-74-2	Di-n-butylphthalate	20	U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	2	DJ
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	2	DJ
218-01-9	Chrysene	3	DJ
117-81-7	bis(2-Ethylhexyl)phthalate	41	BD
117-84-0	Di-n-octylphthalate	20	U
205-99-2	Benzo(b)fluoranthene	20	U
207-08-9	Benzo(k)fluoranthene	1	DJ
50-32-8	Benzo(a)pyrene	20	U
193-39-5	Indeno(1,2,3-cd)pyrene	20	U
53-70-3	Dibenz(a,h)anthracene	20	U
191-24-2	Benzo(g,h,i)perylene	20	U

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP2DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120808.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 6.7 Extraction: (Type) CONT EX

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	3.62	6	DJ
2.	UNKNOWN	5.14	10	DJ
3. 103-65-1	BENZENE, PROPYL-	5.22	6	DJN
4.	UNKNOWN	5.60	8	I
5.	UNKNOWN	6.62	11	DJ
6. 95-93-2	BENZENE, 1,2,4,5-TETRAMETHYL	7.41	7	DJN
7. 488-23-3	BENZENE, 1,2,3,4-TETRAMETHYL	7.88	13	DJN
8.	UNKNOWN ALKYL BENZENE	8.41	6	DJ
9. 700-12-9	BENZENE, PENTAMETHYL-	9.41	6	DJN
10.	UNKNOWN	9.55	9	DJ
11. 90-12-0	NAPHTHALENE, 1-METHYL-	9.82	43	DJN
12.	UNKNOWN	10.62	7	DJ
13. 1127-76-0	NAPHTHALENE, 1-ETHYL-	10.71	6	DJN
14. 575-37-1	NAPHTHALENE, 1,7-DIMETHYL-	10.77	23	DJN
15. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	10.92	29	DJN
16. 575-43-9	NAPHTHALENE, 1,6-DIMETHYL-	10.97	21	DJN
17. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	11.13	12	DJN
18. 571-58-4	NAPHTHALENE, 1,4-DIMETHYL-	11.30	10	DJN
19. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	11.73	9	DJN
20. 829-26-5	NAPHTHALENE, -TRIMETHYL-	11.78	6	DJN
21. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	11.97	11	DJN
22.	UNKNOWN	12.04	8	DJ
23. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	12.13	15	DJN
24. 829-26-5	NAPHTHALENE, 2,3,6-TRIMETHYL	12.28	9	DJN
25.	UNKNOWN	12.44	7	DJ
26. 2489-86-3	NAPHTHALENE, -(-PROPENYL)-	12.64	10	DJN
27.	UNKNOWN PAH	12.81	7	DJ
28.	UNKNOWN	16.82	5	DJ
29.	UNKNOWN	17.51	8	DJ
30. 13674-87-8	2-PROPANOL, 1,3-DICHLORO-, P	17.78	6	DJN

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP3

ab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120722.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.8 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	3	J
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	62	
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	14	
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	3	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP3

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120722.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.8 Extraction: (Type) CONT EX

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

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	4	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	6	J
120-12-7	Anthracene	10	U
86-74-8	Carbazole	2	J
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	0.6	J
129-00-0	Pyrene	1	J
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	1	J
218-01-9	Chrysene	2	J
117-81-7	bis(2-Ethylhexyl)phthalate	~~1~~ 10	BJ
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	0.7	J
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	0.5	J
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP3

ab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120722.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.8 Extraction: (Type) CONT EX

Number TICs found: 30 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.23	6	J
2. 103-65-1	BENZENE, PROPYL-	5.32	5	JN
3. 104-53-0	BENZENEPROPANAL	6.70	5	JN
4. 934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	7.10	6	JN
5. 934-80-5	BENZENE, 4-ETHYL-1,2-DIMETHY	7.50	8	JN
6. 99-87-6	BENZENE, 1-METHYL-4-(1-METHY	7.99	10	JN
7. 700-12-9	BENZENE, PENTAMETHYL-	8.52	5	JN
8. 700-12-9	BENZENE, PENTAMETHYL-	9.52	4	JN
9. 1195-14-8	BENZO[B]THIOPHENE, -METHYL-	9.67	7	JN
10. 90-12-0	NAPHTHALENE, 1-METHYL-	9.93	30	JN
11.	UNKNOWN	10.61	5	J
12. 581-42-0	NAPHTHALENE, 2,6-DIMETHYL-	10.89	18	JN
13. 581-40-8	NAPHTHALENE, 2,3-DIMETHYL-	11.04	25	JN
14. 582-16-1	NAPHTHALENE, 2,7-DIMETHYL-	11.08	11	JN
15. 573-98-8	NAPHTHALENE, 1,2-DIMETHYL-	11.25	8	JN
16. 4794-05-2	BENZENE, 2,5-CYCLOHEXADIEN-1	11.29	5	JN
17. 1127-76-0	NAPHTHALENE, 1-ETHYL-	11.42	8	JN
18. 2027-17-0	NAPHTHALENE, 2-(1-METHYLETHY	11.83	9	JN
19. 2245-38-7	NAPHTHALENE, 1,6,7-TRIMETHYL	11.90	5	JN
20.	5-METHYL-1-PHENYLHEXA-1,3,4-	11.96	5	JN
21. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	12.05	11	JN
22. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	12.09	8	JN
23.	UNKNOWN KETONE	12.16	7	J
24. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	12.25	14	JN
25. 2131-42-2	NAPHTHALENE, 1,4,6-TRIMETHYL	12.40	5	JN
26.	UNKNOWN	12.54	6	J
27. 2489-86-3	NAPHTHALENE, 1-(2-PROPENYL)-	12.76	9	JN
28. 7320-53-8	DIBENZOFURAN, 4-METHYL-	12.93	5	JN
29.	UNKNOWN	17.65	5	J
30. 13674-87-8	2-PROPANOL, 1,3-DICHLORO-, P	17.91	5	JN

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120720.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	0.9	J
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	140	E
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	0.9	J

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120720.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT EX

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

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	0.6	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	~~3~~ 10	~~B~~ U
206-44-0	Fluoranthene	0.8	J
129-00-0	Pyrene	0.6	J
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~2~~ 10	~~B~~ U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP4

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120720.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT EX

Number TICs found: 30

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	3.71	7	JN
2.	UNKNOWN	4.99	4	J
3.	UNKNOWN	5.06	40	J
4.	UNKNOWN	5.14	4	J
5.	UNKNOWN ORGANIC ACID	5.50	3	
6.	UNKNOWN	6.61	5	J
7. 124-07-2	OCTANOIC ACID	8.14	5	JN
8.	UNKNOWN	8.76	6	J
9.	UNKNOWN	9.96	6	J
10.	UNKNOWN	9.99	4	J
11.	UNKNOWN	10.17	18	J
12.	UNKNOWN	11.64	7	J
13. 134-62-3	DIETHYLTOLUAMIDE	12.48	3	JN
14.	UNKNOWN	12.83	8	J
15.	UNKNOWN	12.88	4	J
16. 20324-34-9	2,5,8,11-TETRAOXATETRADECAN-	13.89	3	JN
17. 115-96-8	TRI(2-CHLOROETHYL) PHOSPHATE	13.96	14	JN
18.	UNKNOWN	14.02	6	J
19.	UNKNOWN	14.18	3	J
20.	UNKNOWN	14.36	74	J
21.	UNKNOWN	14.43	13	J
22.	UNKNOWN	14.50	3	J
23.	UNKNOWN	14.73	4	J
24.	UNKNOWN	14.90	3	J
25. 57-10-3	HEXADECANOIC ACID	15.27	9	JN
26.	UNKNOWN	16.36	5	J
27. 57-11-4	OCTADECANOIC ACID	16.62	6	JN
28.	UNKNOWN	17.68	24	J
29. 13674-87-8	2-PROPANOL, 1,3-DICHLORO-, P	17.93	5	JN
30.	UNKNOWN	20.40	3	J

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP4DL

ab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.05DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120807.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	20	U
108-95-2	Phenol	20	U
111-44-4	bis(2-Chloroethyl)ether	20	U
95-57-8	2-Chlorophenol	20	U
95-48-7	2-Methylphenol	20	U
108-60-1	2,2'-oxybis(1-Chloropropane)	20	U
98-86-2	Acetophenone	20	U
106-44-5	4-Methylphenol	20	U
621-64-7	N-Nitroso-di-n-propylamine	20	U
67-72-1	Hexachloroethane	20	U
98-95-3	Nitrobenzene	20	U
78-59-1	Isophorone	20	U
88-75-5	2-Nitrophenol	20	U
105-67-9	2,4-Dimethylphenol	20	U
111-91-1	bis(2-Chloroethoxy)methane	20	U
120-83-2	2,4-Dichlorophenol	20	U
91-20-3	Naphthalene	20	U
106-47-8	4-Chloroaniline	20	U
87-68-3	Hexachlorobutadiene	20	U
105-60-2	Caprolactam	140	D
59-50-7	4-Chloro-3-methylphenol	20	U
91-57-6	2-Methylnaphthalene	20	U
77-47-4	Hexachlorocyclopentadiene	20	U
88-06-2	2,4,6-Trichlorophenol	20	U
95-95-4	2,4,5-Trichlorophenol	50	U
92-52-4	1,1'-Biphenyl	20	U
91-58-7	2-Chloronaphthalene	20	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethylphthalate	20	U
606-20-2	2,6-Dinitrotoluene	20	U
208-96-8	Acenaphthylene	20	U
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	20	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP4DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.05DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120807.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT EX

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

CAS NO.	COMPOUND		Q
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	20	U
121-14-2	2,4-Dinitrotoluene	20	U
84-66-2	Diethylphthalate	20	U
86-73-7	Fluorene	20	U
7005-72-3	4-Chlorophenyl-phenylether	20	U
100-01-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	20	
101-55-3	4-Bromophenyl-phenylether	20	
118-74-1	Hexachlorobenzene	20	U
1912-24-9	Atrazine	20	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	20	U
120-12-7	Anthracene	20	U
86-74-8	Carbazole	20	U
84-74-2	Di-n-butylphthalate	~~3~~ 20	~~BDJ~~ U
206-44-0	Fluoranthene	20	U
129-00-0	Pyrene	20	U
85-68-7	Butylbenzylphthalate	20	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)anthracene	20	U
218-01-9	Chrysene	20	U
117-81-7	bis(2-Ethylhexyl)phthalate	~~2~~ 20	~~BDJ~~ U
117-84-0	Di-n-octylphthalate	20	U
205-99-2	Benzo(b)fluoranthene	20	U
207-08-9	Benzo(k)fluoranthene	20	U
50-32-8	Benzo(a)pyrene	20	U
193-39-5	Indeno(1,2,3-cd)pyrene	20	U
53-70-3	Dibenz(a,h)anthracene	20	U
191-24-2	Benzo(g,h,i)perylene	20	U

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP4DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.05DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120807.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/08/99

Injection Volume: 2.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) N pH: 7.0 Extraction: (Type) CONT EX

Number TICs found: 15

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	541-05-9	CYCLOTRISILOXANE, HEXAMETHYL	3.62	11	DJN
2.		UNKNOWN	4.73	4	DJ
3.		UNKNOWN	4.89	4	~~BDJ~~ U
4.		UNKNOWN	4.95	41	BDJ ✓
5.		UNKNOWN	5.14	7	DJ
6.		UNKNOWN	5.61	7	DJ
7.		UNKNOWN	6.49	6	DJ
8.	541-02-6	CYCLOPENTASILOXANE, DECAMETH	7.66	10	DJN
9.	124-07-2	OCTANOIC ACID	7.98	5	DJN
10.		UNKNOWN	10.04	19	DJ
11.		UNKNOWN	12.69	5	DJ
12.		UNKNOWN	14.22	12	DJ
13.		UNKNOWN	17.52	29	DJ
14.	13674-87-8	2-PROPANOL, 1,3-DICHLORO-, P	17.79	6	DJN
15.		UNKNOWN	20.85	4	DJ
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120721.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.8 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
100-52-7	Benzaldehyde	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
98-86-2	Acetophenone	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	"
67-72-1	Hexachloroethane	10	
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
105-60-2	Caprolactam	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
92-52-4	1,1'-Biphenyl	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
208-96-8	Acenaphthylene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1D
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120721.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.8 Extraction: (Type) CONT EX

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
1912-24-9	Atrazine	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	10	U
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

(1) Cannot be seperated from Diphenylamine

1G

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDAP5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: F9120721.D

Level: (low/med) LOW Date Received: 12/01/99

% Moisture: _____ decanted: (Y/N) N Date Extracted: 12/02/99

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/07/99

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.8 Extraction: (Type) CONT EX

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.71	2	~~BJ~~ 4
2.		UNKNOWN	4.85	3	~~BJ~~ 4
3.		UNKNOWN	16.03	3 ST 1-14-00	J
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1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKWT

Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: BB1202WT

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N)___ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/07/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKWU

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: BL1202WU

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N)___ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/16/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.015	J
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

GC Column(1): RTX-PEST ID: 0.32(mm) GC Column(2): RTX-PEST 2 ID: 0.32(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKWA	64	71	58	59			0
02	PBLKWT	61	66	69	68			0
03	PBLKWU	73	77	59	54			0
04	EDAP1	60	71	101	92			0
05	EDAP1MS	79	68	104	103			0
06	EDAP1MSD	65	57	100	91			0
07	EDAP4	71	58	101	105			0
08	EDAP5	46	51	82	83			0
09	EDAP2DL	47	56	143	53			0
10	EDAP3DL	45	33	114	46			0
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QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

2E
WATER PESTICIDE SURROGATE RECOVERY

ab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKWS	54	65	38	45			0
02	EDAP2	216*	64	47	120			1
03	EDAP3	147	30	48	86			0
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QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

GC Column(1): RTX-PEST ID: 0.32(mm) GC Column(2): RTX-PEST 2 ID: 0.32(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKSG	67	73	99	98			0
02	EDAM6DL	42	137	1347D	778D			0
03	EDAM7DL	85	88	530D	327D			0
04	EDAM8DL	60	58	274D	121			0
05	EDAM9DL	332D	120	189D	124			0
06	EDAN0DL	66	94	347D	174D			0
07	EDAN1DL	72	86	161D	163D			0
08	EDAM6	65	92	10*	51			1
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QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

GC Column(1): DB-1701 ID: 0.32(mm) GC Column(2): DB-17 ID: 0.32(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLKSF	47	59	81	80			0
02	EDAM6MS	82	68	4*	0*			2
03	EDAM6MSD	198*	50	140	19*			2
04	EDAM7	66	74	29*	21*			2
05	EDAM8	26*	118	60	68			1
06	EDAM9	42	67	58	99			0
07	EDAN0	129	44	40	49			0
08	EDAN1	56	60	79	86			0
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QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)
DCB = Decachlorobiphenyl (30-150)

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

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ɔ Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix Spike - EPA Sample NO.: EDAP1

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC(Lindane)	0.50	0	0.29	58	56-123
Heptachlor	0.50	0	0.31	62	40-131
Aldrin	0.50	0	0.32	64	40-120
Dieldrin	1.0	0	0.72	72	52-126
Endrin	1.0	0	0.91	91	56-121
4,4'-DDT	1.0	0	0.72	72	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	0.50	0.25	50 *	15	15	56-123
Heptachlor	0.50	0.28	56	10	20	40-131
Aldrin	0.50	0.28	56	13	22	40-120
Dieldrin	1.0	0.63	63	13	18	52-126
Endrin	1.0	0.82	82	10	21	56-121
4,4'-DDT	1.0	0.71	71	1	27	38-127

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 1 out of 12 outside limits

Comments: _____

3F

SOIL PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix Spike - EPA Sample NO.: EDAM6

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
gamma-BHC(Lindane)	21	0.97	14	62	46-127
Heptachlor	21	0	6.0	29 *	35-130
Aldrin	21	2.3	22	94	34-132
Dieldrin	42	5.4	45	94	31-134
Endrin	42	30	23	-17 *	42-139
4,4'-DDT	42	39	53	33	23-134

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC(Lindane)	21	11	48	25	50	46-127
Heptachlor	21	17	81	95 *	31	35-130
Aldrin	21	12	46	69 *	43	34-132
Dieldrin	42	37	75	22	38	31-134
Endrin	42	49	45	443 *	45	42-139
4,4'-DDT	42	66	64	64 *	50	23-134

Column to be used to flag recovery values

* Values outside of QC limits

RPD: 4 out of 6 outside limits
Spike Recovery: 2 out of 12 outside limits

Comments: _____

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKSF

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab Sample ID: BL1130SF Lab File ID: 14_27604

Matrix: (soil/water) SOIL Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 11/30/99

Date Analyzed (1): 12/16/99 Date Analyzed (2): 12/16/99

Time Analyzed (1): 1046 Time Analyzed (2): 1046

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EDAM6	41246.01	12/15/99	12/15/99
02	EDAM6MS	41246.01MS	12/15/99	12/15/99
03	EDAM6MSD	41246.01MSD	12/15/99	12/15/99
04	EDAM7	41246.02	12/15/99	12/15/99
05	EDAM8	41246.03	12/15/99	12/15/99
06	EDAM9	41246.04	12/15/99	12/15/99
07	EDAN0	41246.05	12/15/99	12/15/99
08	EDAN1	41246.06	12/15/99	12/15/99
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Comments:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKSG

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab Sample ID: BB1130SG Lab File ID: 3_024927

Matrix: (soil/water) SOIL Extraction: (Type) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 11/30/99

Date Analyzed (1): 12/10/99 Date Analyzed (2): 12/10/99

Time Analyzed (1): 0528 Time Analyzed (2): 0528

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EDAM6DL	41246.01DL	12/10/99	12/10/99
02	EDAM7DL	41246.02DL	12/10/99	12/10/99
03	EDAM8DL	41246.03DL	12/10/99	12/10/99
04	EDAM9DL	41246.04DL	12/10/99	12/10/99
05	EDAN0DL	41246.05DL	12/10/99	12/10/99
06	EDAN1DL	41246.06DL	12/10/99	12/10/99
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Comments:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKWA

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab Sample ID: BL1202WA Lab File ID: 3_024262

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 12/02/99

Date Analyzed (1): 12/07/99 Date Analyzed (2): 12/07/99

Time Analyzed (1): 2315 Time Analyzed (2): 2315

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EDAP1	41263.02	12/08/99	12/08/99
02	EDAP1MS	41263.02MS	12/08/99	12/08/99
03	EDAP1MSD	41263.02MSD	12/08/99	12/08/99
04	EDAP5	41263.06	12/08/99	12/08/99
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26				

Comments:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKWS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab Sample ID: BL1202WS Lab File ID: 14_27697

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) Y Date Extracted: 12/02/99

Date Analyzed (1): 12/21/99 Date Analyzed (2): 12/21/99

Time Analyzed (1): 1833 Time Analyzed (2): 1833

Instrument ID (1): HP_14A Instrument ID (2): HP_14B

GC Column (1): DB-1701 ID: 0.32(mm) GC Column (2): DB-17 ID: 0.32(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EDAP2	41263.03	12/22/99	12/22/99
02	EDAP3	41263.04	12/22/99	12/22/99
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
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17				
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24				
25				
26				

Comments:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKWU

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab Sample ID: BL1202WU Lab File ID: 15_21890

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) Y Date Extracted: 12/02/99

Date Analyzed (1): 12/16/99 Date Analyzed (2): 12/16/99

Time Analyzed (1): 0955 Time Analyzed (2): 0955

Instrument ID (1): HP_15A Instrument ID (2): HP_15B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EDAP2DL	41263.03DL	12/16/99	12/16/99
02	EDAP3DL	41263.04DL	12/16/99	12/16/99
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
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Comments:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLKWT

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Lab Sample ID: BB1202WT Lab File ID: 3_024263

Matrix: (soil/water) WATER Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) Y Date Extracted: 12/02/99

Date Analyzed (1): 12/07/99 Date Analyzed (2): 12/07/99

Time Analyzed (1): 2340 Time Analyzed (2): 2340

Instrument ID (1): HP_03A Instrument ID (2): HP_03B

GC Column (1): RTX-PEST ID: 0.32(mm) GC Column (2): RTX-PEST 2 ID: 0.32(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	EDAP4	41263.05	12/08/99	12/08/99
02				
03				
04				
05				
06				
07				
08				
09				
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Comments:

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKSF

b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BL1130SF

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

% Moisture: _____ Decanted: (Y/N)___ Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/16/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	1.7	U
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKSG

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: BB1130SG

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

% Moisture: _____ Decanted: (Y/N)___ Date Received: _____

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/10/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.7	U
319-85-7	beta-BHC	1.7	U
319-86-8	delta-BHC	1.7	U
58-89-9	gamma-BHC (Lindane)	1.7	U
76-44-8	Heptachlor	0.99	PJ
309-00-2	Aldrin	1.7	U
1024-57-3	Heptachlor epoxide	1.7	U
959-98-8	Endosulfan I	1.7	U
60-57-1	Dieldrin	3.3	U
72-55-9	4,4'-DDE	3.3	U
72-20-8	Endrin	3.3	U
33213-65-9	Endosulfan II	3.3	U
72-54-8	4,4'-DDD	3.3	U
1031-07-8	Endosulfan sulfate	3.3	U
50-29-3	4,4'-DDT	3.3	U
72-43-5	Methoxychlor	17	U
53494-70-5	Endrin ketone	3.3	U
7421-93-4	Endrin aldehyde	3.3	U
5103-71-9	alpha-Chlordane	1.7	U
5103-74-2	gamma-Chlordane	1.7	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKWA

b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: BL1202WA

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N)___ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/07/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLKWS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: BL1202WS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N)___ Date Received: _____

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/21/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6MS

Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01MS

Sample wt/vol: 31.2 (g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/15/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	19	~~P~~J
319-86-8	delta-BHC	50	~~P~~J
58-89-9	gamma-BHC (Lindane)	14	~~P~~J
76-44-8	Heptachlor	6.0	~~P~~J
309-00-2	Aldrin	22	~~P~~J
1024-57-3	Heptachlor epoxide	1.6	~~P~~J
959-98-8	Endosulfan I	15	~~P~~J
60-57-1	Dieldrin	45	~~P~~J
72-55-9	4,4'-DDE	1100	E
72-20-8	Endrin	23	~~P~~J
33213-65-9	Endosulfan II	3.7	~~P~~J
72-54-8	4,4'-DDD	36	
1031-07-8	Endosulfan sulfate	27	~~P~~J
50-29-3	4,4'-DDT	53	~~P~~J
72-43-5	Methoxychlor	13	~~P~~J
53494-70-5	Endrin ketone	3.7	~~P~~J
7421-93-4	Endrin aldehyde	68	E
5103-71-9	alpha-Chlordane	1.6	~~P~~J
5103-74-2	gamma-Chlordane	27	
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	85	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1MS

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02MS

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 12/01/99

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/08/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.29	
76-44-8	Heptachlor	0.31	
309-00-2	Aldrin	0.32	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.72	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.91	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.72	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.036	J
7421-93-4	Endrin aldehyde	0.042	J
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6MSD

Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01MSD

Sample wt/vol: 30.8 (g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/15/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	19	~~P~~J
319-86-8	delta-BHC	1.3	PJ
58-89-9	gamma-BHC (Lindane)	11	~~P~~J
76-44-8	Heptachlor	17	
309-00-2	Aldrin	12	~~P~~J
1024-57-3	Heptachlor epoxide	5.6	~~P~~J
959-98-8	Endosulfan I	12	~~P~~J
60-57-1	Dieldrin	37	~~P~~J
72-55-9	4,4'-DDE	650	E
72-20-8	Endrin	49	~~P~~J
33213-65-9	Endosulfan II	4.2	~~P~~J
72-54-8	4,4'-DDD	25	~~P~~J
1031-07-8	Endosulfan sulfate	24	~~P~~J
50-29-3	4,4'-DDT	66	
72-43-5	Methoxychlor	15	~~P~~J
53494-70-5	Endrin ketone	4.2	U
7421-93-4	Endrin aldehyde	81	E
5103-71-9	alpha-Chlordane	1.7	~~P~~J
5103-74-2	gamma-Chlordane	19	~~P~~J
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	42	U
11104-28-2	Aroclor-1221	86	U
11141-16-5	Aroclor-1232	42	U
53469-21-9	Aroclor-1242	42	U
12672-29-6	Aroclor-1248	42	U
11097-69-1	Aroclor-1254	42	U
11096-82-5	Aroclor-1260	42	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1MSD

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02MSD

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 12/01/99

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/08/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.25	
76-44-8	Heptachlor	0.28	
309-00-2	Aldrin	0.28	
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.63	
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.82	
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.71	
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6

Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/15/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.2	U
319-85-7	beta-BHC	16	~~P~~ J
319-86-8	delta-BHC	2.6	~~P~~ J
58-89-9	gamma-BHC (Lindane)	0.97	~~P~~ J
76-44-8	Heptachlor	2.2	U
309-00-2	Aldrin	2.3	~~P~~ J
1024-57-3	Heptachlor epoxide	2.7	~~P~~ J
959-98-8	Endosulfan I	35	~~P~~ J
60-57-1	Dieldrin	5.4	~~P~~ J
72-55-9	4,4'-DDE	570	E
72-20-8	Endrin	30	
33213-65-9	Endosulfan II	6.2	~~P~~ J
72-54-8	4,4'-DDD	7.2	~~P~~ J
1031-07-8	Endosulfan sulfate	4.3	U
50-29-3	4,4'-DDT	39	
72-43-5	Methoxychlor	2.7	~~P~~ J
53494-70-5	Endrin ketone	8.2	~~P~~ J
7421-93-4	Endrin aldehyde	78	~~P~~ E J
5103-71-9	alpha-Chlordane	1.3	~~P~~ J J
5103-74-2	gamma-Chlordane	12	
8001-35-2	Toxaphene	220	U
12674-11-2	Aroclor-1016	43	U
11104-28-2	Aroclor-1221	88	U
11141-16-5	Aroclor-1232	43	U
53469-21-9	Aroclor-1242	43	U
12672-29-6	Aroclor-1248	43	U
11097-69-1	Aroclor-1254	43	U
11096-82-5	Aroclor-1260	43	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM6DL

ab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.01DL

Sample wt/vol: 30.1 (g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/10/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	22	U
319-85-7	beta-BHC	22	U
319-86-8	delta-BHC	22	U
58-89-9	gamma-BHC (Lindane)	22	U
76-44-8	Heptachlor	22	U
309-00-2	Aldrin	22	U
1024-57-3	Heptachlor epoxide	8.9	~~DP~~J
959-98-8	Endosulfan I	22	U
60-57-1	Dieldrin	43	U
72-55-9	4,4'-DDE	400	D
72-20-8	Endrin	43	U
33213-65-9	Endosulfan II	13	~~DP~~J
72-54-8	4,4'-DDD	15	~~DP~~J
1031-07-8	Endosulfan sulfate	30	~~DP~~J
50-29-3	4,4'-DDT	26	~~DP~~J
72-43-5	Methoxychlor	220	U
53494-70-5	Endrin ketone	24	~~DP~~J
7421-93-4	Endrin aldehyde	8.4	~~DP~~J
5103-71-9	alpha-Chlordane	45	~~DP~~J
5103-74-2	gamma-Chlordane	22	U
8001-35-2	Toxaphene	2200	U
12674-11-2	Aroclor-1016	430	U
11104-28-2	Aroclor-1221	880	U
11141-16-5	Aroclor-1232	430	U
53469-21-9	Aroclor-1242	430	U
12672-29-6	Aroclor-1248	430	U
11097-69-1	Aroclor-1254	430	U
11096-82-5	Aroclor-1260	430	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM7

Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02

Sample wt/vol: 35.4 (g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/15/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.9	U
319-85-7	beta-BHC	1.4 ~~0.33~~	~~PJ~~ U
319-86-8	delta-BHC	43	~~P~~EJ
58-89-9	gamma-BHC (Lindane)	6.7	~~P~~ J
76-44-8	Heptachlor	1.9	U
309-00-2	Aldrin	1.9	U
1024-57-3	Heptachlor epoxide	1.7	~~P~~J
959-98-8	Endosulfan I	12	~~P~~ J
60-57-1	Dieldrin	3.1	~~P~~J
72-55-9	4,4'-DDE	320	E
72-20-8	Endrin	13	~~P~~ J
33213-65-9	Endosulfan II	2.7	J
72-54-8	4,4'-DDD	4.6	~~P~~ J
1031-07-8	Endosulfan sulfate	3.7	U
50-29-3	4,4'-DDT	15	
72-43-5	Methoxychlor	16	~~P~~J
53494-70-5	Endrin ketone	3.7	U
7421-93-4	Endrin aldehyde	77	E
5103-71-9	alpha-Chlordane	2.6	~~P~~ J
5103-74-2	gamma-Chlordane	7.6	
8001-35-2	Toxaphene	190	U
12674-11-2	Aroclor-1016	37	U
11104-28-2	Aroclor-1221	75	U
11141-16-5	Aroclor-1232	37	U
53469-21-9	Aroclor-1242	37	U
12672-29-6	Aroclor-1248	37	U
11097-69-1	Aroclor-1254	37	U
11096-82-5	Aroclor-1260	37	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 21 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/15/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	0.69	~~P~~J
319-85-7	beta-BHC	3.3	~~P~~J
319-86-8	delta-BHC	2.1	U
58-89-9	gamma-BHC (Lindane)	1.5	~~P~~J
76-44-8	Heptachlor	3.5	
309-00-2	Aldrin	0.55	~~P~~J
1024-57-3	Heptachlor epoxide	2.1	U
959-98-8	Endosulfan I	1.4	~~P~~J
60-57-1	Dieldrin	4.1 ~~0.42~~	~~PJ~~ U
72-55-9	4,4'-DDE	4.1 ~~0.24~~	~~PJ~~ U
72-20-8	Endrin	4.1 ~~0.56~~	~~PJ~~ U
33213-65-9	Endosulfan II	4.5	~~P~~J
72-54-8	4,4'-DDD	2.5	J
1031-07-8	Endosulfan sulfate	2.6	~~P~~J
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	21	U
53494-70-5	Endrin ketone	5.2	~~P~~J
7421-93-4	Endrin aldehyde	1.9	~~P~~J
5103-71-9	alpha-Chlordane	0.62	~~P~~J
5103-74-2	gamma-Chlordane	2.1 ~~0.32~~	~~PJ~~ U
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	83	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM7DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.02DL

Sample wt/vol: 35.4 (g/mL) G Lab File ID: _____

% Moisture: 24 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/10/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	19	U
319-85-7	beta-BHC	19	U
319-86-8	delta-BHC	19	U
58-89-9	gamma-BHC (Lindane)	19	U
76-44-8	Heptachlor	19	U
309-00-2	Aldrin	19	U
1024-57-3	Heptachlor epoxide	8.4	~~DP~~J
959-98-8	Endosulfan I	19	U
60-57-1	Dieldrin	10	~~DP~~J
72-55-9	4,4'-DDE	210	D
72-20-8	Endrin	37	U
33213-65-9	Endosulfan II	37	U
72-54-8	4,4'-DDD	37	U
1031-07-8	Endosulfan sulfate	14	~~DP~~J
50-29-3	4,4'-DDT	11	~~DP~~J
72-43-5	Methoxychlor	190	U
53494-70-5	Endrin ketone	37	U
7421-93-4	Endrin aldehyde	11	~~DP~~J
5103-71-9	alpha-Chlordane	18	~~DP~~J
5103-74-2	gamma-Chlordane	19	U
8001-35-2	Toxaphene	1900	U
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	750	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	370	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM8DL

) Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.03DL

Sample wt/vol: 30.5 (g/mL) G Lab File ID: _____

% Moisture: 21 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/10/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC (Lindane)	21	U
76-44-8	Heptachlor	21	U
309-00-2	Aldrin	21	U
1024-57-3	Heptachlor epoxide	21	U
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	41	U
72-55-9	4,4'-DDE	41 ~~4.4~~	~~DPJ~~ U
72-20-8	Endrin	41	U
33213-65-9	Endosulfan II	41	U
72-54-8	4,4'-DDD	41	U
1031-07-8	Endosulfan sulfate	41	U
50-29-3	4,4'-DDT	41 ~~6.3~~	~~DPJ~~ U
72-43-5	Methoxychlor	210	U
53494-70-5	Endrin ketone	41	U
7421-93-4	Endrin aldehyde	41	U
5103-71-9	alpha-Chlordane	21	U
5103-74-2	gamma-Chlordane	21	U
8001-35-2	Toxaphene	2100	U
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	830	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	410	U
11097-69-1	Aroclor-1254	410	U
11096-82-5	Aroclor-1260	410	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM9

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.04

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

% Moisture: 21 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/15/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.1	U
319-85-7	beta-BHC	8.8	~~P~~ J
319-86-8	delta-BHC	9.6	~~P~~ J
58-89-9	gamma-BHC (Lindane)	1.3	~~P~~ J
76-44-8	Heptachlor	2.1 ~~0.51~~	~~PJ~~ U
309-00-2	Aldrin	6.1	~~P~~ J
1024-57-3	Heptachlor epoxide	0.73	~~P~~ J
959-98-8	Endosulfan I	2.1	U
60-57-1	Dieldrin	4.1	U
72-55-9	4,4'-DDE	0.53 ~~4.1~~ ~~0.33~~	J ~~J~~ ~~4.1~~ U
72-20-8	Endrin	1.1	~~P~~ J
33213-65-9	Endosulfan II	4.1	U
72-54-8	4,4'-DDD	4.1 ~~0.62~~	~~PJ~~ U
1031-07-8	Endosulfan sulfate	4.1	U
50-29-3	4,4'-DDT	4.1	U
72-43-5	Methoxychlor	2.5	~~P~~ J
53494-70-5	Endrin ketone	4.1	U
7421-93-4	Endrin aldehyde	3.8	~~P~~ J
5103-71-9	alpha-Chlordane	2.1 ~~0.49~~	~~PJ~~ U
5103-74-2	gamma-Chlordane	1.3	~~P~~ J
8001-35-2	Toxaphene	210	U
12674-11-2	Aroclor-1016	41	U
11104-28-2	Aroclor-1221	84	U
11141-16-5	Aroclor-1232	41	U
53469-21-9	Aroclor-1242	41	U
12672-29-6	Aroclor-1248	41	U
11097-69-1	Aroclor-1254	41	U
11096-82-5	Aroclor-1260	41	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN0

b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05

Sample wt/vol: 31.9 (g/mL) G Lab File ID: _____

% Moisture: 47 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/15/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:12.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	17	~~P~~ J
319-85-7	beta-BHC	6.0	~~P~~ J
319-86-8	delta-BHC	13	~~P~~ J
58-89-9	gamma-BHC (Lindane)	7.4	~~P~~ J
76-44-8	Heptachlor	3.0	U
309-00-2	Aldrin	3.0 ~~0.46~~	~~PJ~~ U
1024-57-3	Heptachlor epoxide	3.0 ~~0.14~~	~~PJ~~ U
959-98-8	Endosulfan I	3.0	U
60-57-1	Dieldrin	1.7	~~P~~ J
72-55-9	4,4'-DDE	92	
72-20-8	Endrin	4.5	~~P~~ J
33213-65-9	Endosulfan II	3.1	~~P~~ J
72-54-8	4,4'-DDD	1.8	~~P~~ J
1031-07-8	Endosulfan sulfate	5.5	~~P~~ J
50-29-3	4,4'-DDT	4.0	~~P~~ J
72-43-5	Methoxychlor	58	
53494-70-5	Endrin ketone	6.8	~~P~~ J
7421-93-4	Endrin aldehyde	59 ~~0.74~~	~~PJ~~ U
5103-71-9	alpha-Chlordane	3.2	P
5103-74-2	gamma-Chlordane	5.6	P
8001-35-2	Toxaphene	300	U
12674-11-2	Aroclor-1016	59	U
11104-28-2	Aroclor-1221	120	U
11141-16-5	Aroclor-1232	59	U
53469-21-9	Aroclor-1242	59	U
12672-29-6	Aroclor-1248	59	U
11097-69-1	Aroclor-1254	59	U
11096-82-5	Aroclor-1260	59	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAM9DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.04DL

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

% Moisture: 21 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/10/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	21	U
319-85-7	beta-BHC	21	U
319-86-8	delta-BHC	21	U
58-89-9	gamma-BHC (Lindane)	21	U
76-44-8	Heptachlor	21	U
309-00-2	Aldrin	21	U
1024-57-3	Heptachlor epoxide	21	U
959-98-8	Endosulfan I	21	U
60-57-1	Dieldrin	41	U
72-55-9	4,4'-DDE	41	U
72-20-8	Endrin	41	U
33213-65-9	Endosulfan II	41	U
72-54-8	4,4'-DDD	41	U
1031-07-8	Endosulfan sulfate	82	D
50-29-3	4,4'-DDT	41	U
72-43-5	Methoxychlor	210	U
53494-70-5	Endrin ketone	41	U
7421-93-4	Endrin aldehyde	24	~~DP~~J
5103-71-9	alpha-Chlordane	21	U
5103-74-2	gamma-Chlordane	21	U
8001-35-2	Toxaphene	2100	U
12674-11-2	Aroclor-1016	410	U
11104-28-2	Aroclor-1221	840	U
11141-16-5	Aroclor-1232	410	U
53469-21-9	Aroclor-1242	410	U
12672-29-6	Aroclor-1248	410	U
11097-69-1	Aroclor-1254	410	U
11096-82-5	Aroclor-1260	410	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN0DL

b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.05DL

Sample wt/vol: 31.9 (g/mL) G Lab File ID: _____

% Moisture: 47 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/10/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH:12.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	30	U
319-85-7	beta-BHC	30	U
319-86-8	delta-BHC	30	U
58-89-9	gamma-BHC (Lindane)	30	U
76-44-8	Heptachlor	30	U
309-00-2	Aldrin	30	U
1024-57-3	Heptachlor epoxide	30	U
959-98-8	Endosulfan I	30	U
60-57-1	Dieldrin	59	U
72-55-9	4,4'-DDE	52	DJ
72-20-8	Endrin	59	U
33213-65-9	Endosulfan II	59	U
72-54-8	4,4'-DDD	59	U
1031-07-8	Endosulfan sulfate	59	U
50-29-3	4,4'-DDT	20	~~DR~~J
72-43-5	Methoxychlor	300	U
53494-70-5	Endrin ketone	59	U
7421-93-4	Endrin aldehyde	59	U
5103-71-9	alpha-Chlordane	30	U
5103-74-2	gamma-Chlordane	30	U
8001-35-2	Toxaphene	3000	U
12674-11-2	Aroclor-1016	590	U
11104-28-2	Aroclor-1221	1200	U
11141-16-5	Aroclor-1232	590	U
53469-21-9	Aroclor-1242	590	U
12672-29-6	Aroclor-1248	590	U
11097-69-1	Aroclor-1254	590	U
11096-82-5	Aroclor-1260	590	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.06

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 15 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/15/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 9.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.0	U
319-85-7	beta-BHC	4.7	~~P~~J
319-86-8	delta-BHC	2.0	U
58-89-9	gamma-BHC (Lindane)	2.0	U
76-44-8	Heptachlor	1.1	~~P~~J
309-00-2	Aldrin	1.3	~~P~~J
1024-57-3	Heptachlor epoxide	2.0	U
959-98-8	Endosulfan I	2.0	U
60-57-1	Dieldrin	3.8	U
72-55-9	4,4'-DDE	1.5	~~P~~J
72-20-8	Endrin	7.8	~~P~~J
33213-65-9	Endosulfan II	3.8	U
72-54-8	4,4'-DDD	3.8	U
1031-07-8	Endosulfan sulfate	1.5	~~P~~J
50-29-3	4,4'-DDT	38 ~~0.67~~	~~PJ~~ U
72-43-5	Methoxychlor	20 ~~1.7~~	~~PJ~~ U
53494-70-5	Endrin ketone	3.8	U
7421-93-4	Endrin aldehyde	3.8	U
5103-71-9	alpha-Chlordane	2.0 ~~0.29~~	~~PJ~~ U
5103-74-2	gamma-Chlordane	0.96	~~P~~J
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	38	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAN1DL

b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) SOIL Lab Sample ID: 41246.06DL

Sample wt/vol: 30.6 (g/mL) G Lab File ID: _____

% Moisture: 15 Decanted: (Y/N) N Date Received: 11/30/99

Extraction: (Type) SONC Date Extracted: 11/30/99

Concentrated Extract Volume: 5000(uL) Date Analyzed: 12/10/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 9.8 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	20	U
319-85-7	beta-BHC	20	U
319-86-8	delta-BHC	20	U
58-89-9	gamma-BHC (Lindane)	20	U
76-44-8	Heptachlor	20	U
309-00-2	Aldrin	20	U
1024-57-3	Heptachlor epoxide	20	U
959-98-8	Endosulfan I	20	U
60-57-1	Dieldrin	38	U
72-55-9	4,4'-DDE	38	U
72-20-8	Endrin	38	U
33213-65-9	Endosulfan II	38	U
72-54-8	4,4'-DDD	38	U
1031-07-8	Endosulfan sulfate	38	U
50-29-3	4,4'-DDT	38	U
72-43-5	Methoxychlor	200	U
53494-70-5	Endrin ketone	38	U
7421-93-4	Endrin aldehyde	38	U
5103-71-9	alpha-Chlordane	20	U
5103-74-2	gamma-Chlordane	20	U
8001-35-2	Toxaphene	2000	U
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	770	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	380	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP1

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.02

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 12/01/99

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/08/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP2

b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 12/01/99

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/22/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.7 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.027	~~P~~J
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.030	~~P~~J
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	1.9	~~PE~~ J
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.28	~~P~~ J
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050 ~~0.0082~~	~~PJ~~ U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP2DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.03DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 12/01/99

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/16/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) N pH: 6.7 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.50	U
319-85-7	beta-BHC	0.50	U
319-86-8	delta-BHC	0.50	U
58-89-9	gamma-BHC (Lindane)	0.50	U
76-44-8	Heptachlor	0.50	U
309-00-2	Aldrin	0.50	U
1024-57-3	Heptachlor epoxide	0.50	U
959-98-8	Endosulfan I	0.50	U
60-57-1	Dieldrin	1.0	U
72-55-9	4,4'-DDE	1.0	U
72-20-8	Endrin	1.0	U
33213-65-9	Endosulfan II	1.0	U
72-54-8	4,4'-DDD	1.0	U
1031-07-8	Endosulfan sulfate	1.0	U
50-29-3	4,4'-DDT	1.0	U
72-43-5	Methoxychlor	5.0	U
53494-70-5	Endrin ketone	1.0	U
7421-93-4	Endrin aldehyde	1.0	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	50	U
12674-11-2	Aroclor-1016	10	U
11104-28-2	Aroclor-1221	20	U
11141-16-5	Aroclor-1232	10	U
53469-21-9	Aroclor-1242	10	U
12672-29-6	Aroclor-1248	10	U
11097-69-1	Aroclor-1254	10	U
11096-82-5	Aroclor-1260	10	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP3

b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.04

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 12/01/99

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/22/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.022	~~P~~J
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.78	~~P~~ J
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.71	~~P~~ J
53494-70-5	Endrin ketone	0.22	~~P~~ J
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP3DL

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.04DL

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 12/01/99

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/16/99

Injection Volume: 0.5(uL) Dilution Factor: 10.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.50	U
319-85-7	beta-BHC	0.50	U
319-86-8	delta-BHC	0.50	U
58-89-9	gamma-BHC (Lindane)	0.50	U
76-44-8	Heptachlor	0.50	U
309-00-2	Aldrin	0.50	U
1024-57-3	Heptachlor epoxide	0.50	U
959-98-8	Endosulfan I	0.50	U
60-57-1	Dieldrin	1.0	U
72-55-9	4,4'-DDE	1.0	U
72-20-8	Endrin	1.0	U
33213-65-9	Endosulfan II	1.0	U
72-54-8	4,4'-DDD	1.0	U
1031-07-8	Endosulfan sulfate	1.0	U
50-29-3	4,4'-DDT	1.0	U
72-43-5	Methoxychlor	5.0	U
53494-70-5	Endrin ketone	1.0	U
7421-93-4	Endrin aldehyde	1.0	U
5103-71-9	alpha-Chlordane	0.50	U
5103-74-2	gamma-Chlordane	0.50	U
8001-35-2	Toxaphene	50	U
12674-11-2	Aroclor-1016	10	U
11104-28-2	Aroclor-1221	20	U
11141-16-5	Aroclor-1232	10	U
53469-21-9	Aroclor-1242	10	U
12672-29-6	Aroclor-1248	10	U
11097-69-1	Aroclor-1254	10	U
11096-82-5	Aroclor-1260	10	U

1E
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP4

b Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 12/01/99

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/08/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050 ~~0.012~~	~~PJ~~ U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.052	J
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.19	
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAP5

Lab Name: SWL-TULSA Contract: 68W99079

Lab Code: SWOK Case No.: 27626 SAS No.: SDG No.: EDAM6

Matrix: (soil/water) WATER Lab Sample ID: 41263.06

Sample wt/vol: 1000 (g/mL) ML Lab File ID: _____

% Moisture: _____ Decanted: (Y/N) __ Date Received: 12/01/99

Extraction: (Type) SEPF Date Extracted: 12/02/99

Concentrated Extract Volume: 10000(uL) Date Analyzed: 12/08/99

Injection Volume: 0.5(uL) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 03 2000

Subject: Review of Region 5 Data for Insta-Foam Products

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory

To: IEPA

Attached are the results for Insta-Foam Products
CRL request number 20000012
for analyses for ICP
Results are reported for sample designations: 2000IE03S01 and 2000IE03R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

Vanadium was above reporting level for both the digestion blank and the field blank. The second instrument blank was just below the limit for vanadium, so it is likely that the vanadium result for the field blank, 2000IE03R01, is a false positive.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for Insta-Foam Products

27 Dec 99

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

27 Dec 99

Team Leader and Date (✓) Reviewed ( ) Unreviewed

12/27/99

QC Coordinator and Date (✓) Reviewed ( ) Unreviewed

Sylvia Griffin JAN 03 2000

Data Management Coordinator and Date Received

Date Transmitted JAN 03 2000

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 03-Dec-99

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20000012

LABORATORY: Region 5 CRL

SAMPLE FACILITY: Insta-Foam Products

SAMPLE: 2000IE03S01

ANALYZED: 03-Dec-99

STATION: G 201

COMPOUND	AMOUNT	(Units)
Aluminum	200 U	(ug/L)
Barium	55.9	(ug/L)
Beryllium	2 U	(ug/L)
Calcium	101000	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	10 U	(ug/L)
Copper	6 U	(ug/L)
Iron	206	(ug/L)
Magnesium	45800	(ug/L)
Manganese	17.1	(ug/L)
Nickel	20 U	(ug/L)
Potassium	5730	(ug/L)
Silver	6 U	(ug/L)
Sodium	33000	(ug/L)
Vanadium	5 U	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: 3-Dec-99

EPA CRL - REGION V
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 03-Dec-99

SAMPLE ORGANIZATION:

SAMPLE BATCH ID: 20000012

LABORATORY: Region 5 CRL

SAMPLE FACILITY: Insta-Foam Products

SAMPLE: 2000IE03R01

ANALYZED: 03-Dec-99

STATION: FIELD BLANK

COMPOUND	AMOUNT	(Units)
Aluminum	200 U	(ug/L)
Barium	6 U	(ug/L)
Beryllium	2 U	(ug/L)
Calcium	200 U	(ug/L)
Chromium	10 U	(ug/L)
Cobalt	10 U	(ug/L)
Copper	6 U	(ug/L)
Iron	80 U	(ug/L)
Magnesium	200 U	(ug/L)
Manganese	5 U	(ug/L)
Nickel	20 U	(ug/L)
Potassium	500 U	(ug/L)
Silver	6 U	(ug/L)
Sodium	500 U	(ug/L)
Vanadium	7	(ug/L)
Zinc	40 U	(ug/L)

ANALYZED BY: LD 3-Dec99

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 03 2000

Subject: Review of Region 5 Data for Insta-Foam Products

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory DJW for

To: IEPA

Attached are the results for Insta-Foam Products
CRL request number 20000012
for analyses for Antimony, Arsenic, Cadmium, Lead, Selenium and Thallium
Results are reported for sample designations: 2000IE03S01 and 2000IE03R01

Results Status:
(x) Acceptable for Use
( ) Data Qualified, but Acceptable for use
( ) Data Unacceptable for Use

Comments on Data Quality by Reviewer

All QC measures were met.

Comments by Laboratory Director or Quality Control Coordinator

Review Record for Insta-Foam Products

27 Dec 99

Peer/Task Monitor Review and Date (✓) Reviewed ( ) Unreviewed

27 Dec 99

Team Leader and Date (✓) Reviewed ( ) Unreviewed

12/27/99

QC Coordinator and Date (✓) Reviewed ( ) Unreviewed

JAN 03 2000

Data Management Coordinator and Date Received

Date Transmitted JAN 03 2000

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

Method: GFAA for Water
Site: Insta-Foam Products
Date: December 27, 1999

TDF: 5104-266
PWO: ESE51151
WAD: 05-99-3-04

NARRATIVE

Two (2) water samples from the Insta-Foam Products site (data set 20000012) were collected on November 29, 1999 and were received properly preserved by CRL on November 30, 1999. The samples were submitted for analysis of antimony, arsenic, cadmium, lead, selenium and thallium by GFAA.

The samples were digested following standard CRL GFAA digestion protocols. The samples were digested on 12/6 and 12/8 (digestion batch 1144). Redigestion was done for selenium and thallium due to failure of the selenium spike and thallium LCS in the first digest. Analysis of arsenic was performed on the 5100E instrument due to mechanical problems with the SIMAA 6000. The lowest practical detection limit used was 2 ug/L.

Analytical results were stored in the following database files:
H:\r5crl\vol3\metals\sconnet\20000012\5100W-Sb\120799A for antimony,
H:\r5crl\vol3\metals\sconnet\20000012\5100E-As\120799 for arsenic,
H:\r5crl\vol3\metals\sconnet\20000012\5100E-Cd\120699B for cadmium,
H:\r5crl\vol3\metals\sconnet\20000012\5100E-Pb\120699A for lead,
H:\r5crl\vol3\metals\sconnet\20000012\5100E-Se\120799A and
H:\r5crl\vol3\metals\sconnet\20000012\5100W-Se\122799 for selenium and
H:\r5crl\vol3\metals\sconnet\20000012\5100W-Tl\120899 for thallium.

This narrative is stored in H:\r5crl\vol3\metals\sconnet\20000012\Reports\GFAA Narrative.

Although an acceptable spike recovery for selenium was obtained from the first digest, it was obtained after several failed attempts. Results were reported from the second digest. No differences were noted in first and second digest results for selenium. All QC were within limits; all other sample results are acceptable.

Since RLIMS was unavailable, the AA metals analysis results are reported in a spreadsheet in a word-processing document only. The spreadsheet is stored in H:\r5crl\vol3\metals\sconnet\20000012\Reports\GFAA Results. Time will be necessary in the future to enter all analysis results into RLIMS.

12-27-99

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: METALS

DIVISION/BRANCH: SUPERFUND **SAMPLING DATE:** 11/29/99 **LAB ARRIVAL DATE:** 11/30/99 **DUE DATE:** 12/21/99
DU NUMBER: 50108D **DATASET NUMBER:** 20000012 **STUDY:** Insta-Foam Products **PRIORITY:** Routine **LABORATORY :** ESAT

	CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER Antimony (ug/L)	WATER Arsenic (ug/L)	WATER Cadmium (ug/L)	WATER Lead (ug/L)	WATER Selenium (ug/L)	WATER Thallium (ug/L)
1	2000IE03S01	G201	2U	2U	0.2U	4	2U	2U
2	2000IE03R01	Field Blank	2U	2U	0.2U	2U	2U	2U
DATE OF ANALYSIS		12-27-99	12/7/99	12/7/99	12/6/99	12/6/99	12/27/99	12/8/99
ANALYST			S. Connet	S. Connet	S. Connet	S. Connet	S. Connet	S. Connet

Reviewed by: J. Gary Date: 12/27/99

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 10 2000

Subject: Review of Region 5 Data for **INSTA-FOAM PRODUCTS**

From: Charles T. Elly, Director Chuck Elly
Region 5 Central Regional Laboratory

RECEIVED
JAN 14 2000
IEPA-BOL-FSRS

To: IEPA

Attached are the results for **INSTA-FOAM PRODUCTS**
CRL request number **20000012**
for analyses for **Mercury**
Results are reported for sample designations: **2000IE03S01 and 2000IE03R01**.

Results Status:
(**X**) Acceptable for Use:
( ) Data Qualified, but Acceptable for use:
( ) Data Unacceptable for Use:

Comments on Data Quality by Reviewer:

All the water samples submitted for Mercury analysis were assayed and the results are attached. Required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

Comments on Sample Results:

All the Mercury results are acceptable for use.

Comments by Laboratory Director or Quality Control Coordinator:

Alida Robertson 1.06.2000

Review and Date (X) Reviewed ( ) Unreviewed

6 Jan 00

Team Leader and Date (X) Reviewed ( ) Unreviewed

1/6/00

QC Coordinator and Date (X) Reviewed ( ) Unreviewed

Sylvia Griffin JAN 10 2000

Data Management Coordinator and Date Received

Date Transmitted JAN 10 2000

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

Method: 245.2 *NS
Site: Insta-Foam Products
Date: December 23, 1999

TDF: 5104-266
PWO: ESE51151
WAD: 05-99-3-04

NARRATIVE

Two (2) water samples from the Insta-Foam Products site (data set 20000012) were collected on November 29, 1999 and were received properly preserved by CRL on November 30, 1999. These samples were assigned to ESAT for mercury analysis. The samples were digested on December 22, 1999. Reagents were added manually due to difficulties with the autoprep station pump valves. The samples were analyzed on December 23, 1999. All samples were analyzed within the 28-day holding time limit.

All QC audits were in control. All results are acceptable.

Since RLIMS was unavailable, the results are reported in a word-processing document only. Time will be necessary in the future to enter all results into RLIMS.

12-23-99

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: METALS

DIVISION/BRANCH: SUPERFUND SAMPLING DATE: 11/29/99 LAB ARRIVAL DATE: 11/30/99 DUE DATE: 12/28/99
DU NUMBER: 50108D DATASET NUMBER: 20000012 STUDY: Insta-Foam Products PRIORITY: Routine LABORATORY :ESAT

	CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER MERCURY (µg/L)		
1	2000IE03S01	G-201	0.1 U		
2	2000IE03R01	FIELD BLANK	0.1 U		
DATE OF ANALYSIS		12-23-99	12/23/99		
ANALYST			S. Connet		

Reviewed by: J. Gray Date: 1/13/2000

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 10 2000

Subject: Review of Region 5 Data for **INSTA-FOAM PRODUCTS**

From: Charles T. Elly, Director
Region 5 Central Regional Laboratory

To: IEPA

Attached are the results for **INSTA-FOAM PRODUCTS**
CRL request number **20000012**
for analyses for **Cyanide**
Results are reported for sample designations: **2000IE03S01 and 2000IE03R01**.

Results Status:
(X) Acceptable for Use:
( ) Data Qualified, but Acceptable for use:
( ) Data Unacceptable for Use:

Comments on Data Quality by Reviewer:

All the water samples submitted for Cyanide analysis were assayed and the results are attached. Required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits.

Comments on Sample Results:

All the Cyanide results are acceptable for use.

Comments by Laboratory Director or Quality Control Coordinator:

Alida Robinson 12-29-99

Review and Date (X) Reviewed ( ) Unreviewed

5 Jan 00

Team Leader and Date (X) Reviewed ( ) Unreviewed

1/5/2000

QC Coordinator and Date (X) Reviewed ( ) Unreviewed

Sylvia Griffin JAN 10 2000

Data Management Coordinator and Date Received

Date Transmitted JAN 10 2000

Please sign and date this form below and return it with any comments to:

Sylvia Griffin
Data Management Coordinator
Region 5 Central Regional Laboratory
ML - 10C

Received by and Date

Comments:

Method: 335.2NS
Site: Insta-Foam Products
Date: December 3, 1999

TDF: 5104-266
PWO: ESE51151
WAD: 05-99-3-04

NARRATIVE

Two (2) water samples from the Insta-Foam Products site (data set 20000012) were collected on November 29, 1999 and were received by CRL properly preserved on November 30, 1999. The samples were assigned to ESAT for cyanide analysis. The samples were distilled using the MIDI distillation method on December 3, 1999. The samples were analyzed on December 3, 1999 for cyanide using a Lachat QuickChem ~~AE~~ 8000 Autoanalyzer according to CRL methods. The samples were analyzed within the 14-day holding time limit. All samples were checked for residual chlorine and sulfide. Results were negative.

All QC audits were in control; all sample results are acceptable. A control sample was distilled and analyzed with the sample batch; no criteria have been established for the sample.

Since RLIMS was unavailable, the results are reported in a word-processing document only. Time will be necessary in the future to enter all results into RLIMS.

12-3-99

ENVIRONMENTAL PROTECTION AGENCY
REGION V
CENTRAL REGIONAL LABORATORY
FINAL RESULT REPORT FOR THE TEAM: MINERAL/NUTRIENTS

DIVISION/BRANCH: SUPERFUND SAMPLING DATE: 11/29/99 LAB ARRIVAL DATE: 11/30/99 DUE DATE: 12/21/99
DU NUMBER: 50108D DATASET NUMBER: 20000012 STUDY: Insta-Foam Products PRIORITY: Routine LABORATORY :ESAT

	CRL LOG NUMBER	SAMPLE DESCRIPTION	WATER CYANIDE (μg/L)	
1	2000IE03S01	G201	8 U	
2	2000IE03R01	FIELD BLANK	8 U	
DATE OF ANALYSIS		12-3-99	12/3/99	
ANALYST			S. Connet	

Reviewed by: J. Garry Date: 12/22/99

DATE: January 10, 2000

TO: IEPA
1021 North Grand Avenue East
SpringfieLd, IL 62702

Attn: Bob Casper

SITE NAME: INSTA FOAM PRODUCTS

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
27626	PDP	3	EDAH0	Water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:
Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

Sent By: Allison Harvey, ESAT

RECEIVED
JAN 12 2000
IEPA-BOL-FSRS

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 1-3-2000

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)
Superfund Technical Support Section

for Steve Ostrodka
Richard L Bynum
1/7/00

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: INSTA FOAM PRODUCTS (IL)

CASE NUMBER: 27626 SDG NUMBER: EDAHØ

Number and Type of Samples: 3 Low Conc. Waters

Sample Numbers: EDAHØ - 2

Laboratory: PDP Hrs. for Review: 4 +0.5 wk

Following are our findings:

the data are useable and acceptable with the qualifications described in the attached narrative.
Richard L Bynum

RECEIVED
JAN 12 2000
IEPA-BOL-FSRS

CC: Cecilia Moore
Region 5 TPO
Mail Code: SM-5J

NARRATIVE

Contractor: PDP Case:27626
Site: Insta Foam Products(IL) SDG:EDAH0

This case consists of three water samples EDAH0-2. These samples were collected on November 29, 1999 and were received by the laboratory on November 30, 1999. The samples were analyzed for the volatile, semivolatile and pesticide/PCB organic analytes. The samples were analyzed according to CLP SOW OLC02.1.

The VOA analyses were performed within the technical holding time of 14 days after sample collection, for acid preserved water samples; therefore, the results are acceptable. All semi-volatile and pesticide/PCB samples were extracted within the 7 day holding time for water samples, and analyzed within the 40 day hold time; therefore, the results are acceptable.

Sample EDAH0 was listed on the COC as a field blank. Sample EDAH2 was listed on the COC as a trip blank and therefore was analyzed for volatiles only.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: R. Kuhajda Lockheed ESAT
Date: January 4, 2000

NARRATIVE

Contractor: PDP Case:27626
Site: Insta Foam Products(IL) SDG:EDAH0

1.HOLDING TIMES
The VOA analyses were performed within the technical holding time of 14 days after sample collection, for acid preserved water samples; therefore, the results are acceptable. All semi-volatile and pesticide/PCB samples were extracted within the 7 day holding time for water samples, and analyzed within the 40 day hold time; therefore, the results are acceptable.

2.GC/MS TUNING
All GC/MS tuning complied with the mass list and ion abundance criteria for BFB, and all samples were analyzed within the 12 hour periods for instrument performance checks.

All GC/MS tuning complied with the mass list and ion abundance criteria for DFTPP, and all samples were analyzed within the 12 hour periods for instrument performance checks.

GC Resolution Check Mixes met the 60% resolution criteria. Endrin and DDT degradation checks using PEM MIX on both columns were <20%; therefore, the results are acceptable. The Florisil Cartridge Check and GPC Calibration Check met the QC Criteria: therefore, the results are acceptable.

3.CALIBRATION
Initial and continuing calibrations were evaluated for the target compound list and outliers are recorded on the forms included as part of this narrative.

4.BLANKS
The volatile blank contained no TCLs or TICs The volatile blank summary (Form IV VOA) lists the samples associated with this blank.

The semivolatile blank contained no TCLs or TICs The semivolatile blank summary (Form IV SVOA) lists the samples associated with this blank.

Reviewed by: R. Kuhajda Lockheed ESAT
Date: January 4, 2000

NARRATIVE

Contractor: PDP Case:27626
Site: Insta Foam Products(IL) SDG:EDAH0

The pesticide/PCB blank contained no TCLs. The blank pesticide/PCB summary (Form IV P) lists the samples associated with these blanks.

5.SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY
The volatile senmivolatile and pesticide/PCB system monitoring compound were within the QC limits for all samples; therefore the results are acceptable.

6. LABORATORY CONTROL SAMPLE
All spike recoveries were within QC limits for all fractions; therefore, the results are acceptable.

7.FIELD BLANKS AND FIELD DUPLICATES
No field duplicates were included. Sample EDAH0 was listed on the COC as a field blank. Sample EDAH2 was listed on the COC as a trip blank and therefore was analyzed for volatiles only.

8.INTERNAL STANDARDS
No problems were reported for the volatile or saemivolatile fractions. The results are acceptable.

9.COMPOUND IDENTIFICATION
After reviewing the mass spectra and chromatograms it appears that all VOA compounds were properly identified.

10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS
All CRQLs were properly reported. All target compounds were properly reported.

11.SYSTEM PERFORMANCE
GC/MS baselines indicated acceptable performance.

12.ADDITIONAL INFORMATION
The integration for many samples and standards were questionable for the pesticide/PCB fraction. Samples EDAH1 EDAH2, the lcs and the blank were integrated with negative area for TCMX. Negative area was also noted in standards: INDBL52, INDBM51 and Aroclor 1242. Questionable integration was also noted in Aroclor 1016.

Reviewed by: R. Kuhajda Lockheed ESAT
Date: January 4, 2000

CALIBRATION OUTLIERS
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS
(page 1 of 1)

CASE\SAS#: 27626
COLUMN: DB-624
PURGE(Y/N): N

LABORATORY: PDP
SITENAME: Insta Foam Products IL

Instrument#: E		Initial cal. 11/29/99 0921			Contin. cal. 12/3/99 2223			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:																
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01	0.010	36.4	J												
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
cis-1,2-Dichloroethene	0.10															
trans-1,2-Dichloroethene	0.10															
Chlroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
Bromochloromethane	0.05															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Brmodichloromethane	0.20															
1,2-Dichloropropane	0.01															
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-trichloroethane	0.10															
Benzene	0.40															
trans-1,3-Dichloropropene	0.10															
Bromoform	0.05															
4-Methyl-2-Pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.10															
1,1,2,2-Tetrachloroethane	0.10															
1,2-Dibromoethane	0.10															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
1,2-Dibromo-3-chloropropane	0.10															
1,3-Dichlorobenzene	0.40															
1,4-Dichlorobenzene	0.40															
1,2-Dichlorobenzene	0.40															
1,2,4-Trichlorobenzene	0.40															
4-Bromofluorobenzene	0.20															

Samples affected:					
		VBLK15			
		VLCS 15			
		EDAN0			
		EDAN1			
		EDAN2			

Reviewer's Init./Date: RR 1/4/00

J/R= All positive results are estimated "J" and non-detected results are unusable "R"
* = These flags should be applied to the analytes on the sample data sheets
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 1 of 2)

CASE\SAS#: 27626
COLUMN: DB-5

LABORATORY: PDP
SITE NAME: Insta Foam Products

Instrument# D		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		12/9/99 1358			CCIC											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(2-chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:
SBLK83
SLCS57
EDAH0
EDAH1

Reviewer's Init/Date: RK 1/4/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
# = Minimum Relative Response Factor

CALIBRATION OUTLIER
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS
(Page 2 of 2)

CASE\SAS#: 27626
COLUMN: DB-5

LABORATORY: PDP
SITE NAME: Insta Foam Products

Instrument#		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:					CC in IC											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01															
3,3'-Dichlorobenzidine	0.01	0.070	40.0	J												
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01															
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthrancene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															

Reviewer's Init/Date: RK 1/4/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

* = These flags should be applied to the analytes on the sample data sheets.
\# = Minimum Relative Response Factor

CASE\SAS#: 27626
COLUMN: DB-608

LABORATORY: PDP
SITE NAME: Insta Foam Products

Instrument# E		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		12/13/99 2302			12/14/99 1043											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60															
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

PBLK52			
PLCS23			
EDAH0			
EDAH1			

Reviewer's Init/Date: RK 1/4/00

* These flags should be applied to the analytes on the sample data sheets.
# *Minimum Relative Response Factor*

CASE\SAS#: 27626
COLUMN: RTX - 1701

LABORATORY: PDP
SITE NAME: Insta Foam Products

Instrument# E		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		12/13/99 2302			12/14/99 1043											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
alpha-BHC	0.01															
beta-BHC	0.40															
delta-BHC	0.90															
gamma-BHC	0.01															
Heptachlor	0.01															
Aldrin	0.01															
Heptachlor epoxide	0.10															
Endosulfan I	0.10															
Dieldrin	0.05															
4, 4'-DDE	0.70															
Endrin	0.70															
Endosulfan II	0.01															
4, 4'-DDD	0.60															
Endosulfan sulfate	0.60		21.5	J												
4, 4'-DDT	0.01															
Methoxychlor	0.01															
Endrin ketone	0.80															
Endrin aldehyde	0.70															
alpha chlordane	0.01															
gamma chlordane	0.01															
Arochlor 1016																
Arochlor 1221																
Arochlor 1232																
Arochlor 1242																
Arochlor 1248																
Arochlor 1254																
Arochlor 1260																

Affected samples:

PBLK52
PLCS23
EDAH0
EDAH1

Reviewer's Init/Date: RK 1/4/00

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.

J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.

R Indicates the data are unusable. (NOTE: The analyte may or may not be present.)

N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.

P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

C Indicates pesticide results that have been confirmed by GC/MS.

B Indicates the analyte is detected in the associated blank as well as in the sample.

E Indicates compounds whose concentrations exceed the calibration range of the instrument.

D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.

A Indicates tentatively identified compounds that are suspected to be aldol condensation products.

G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.

L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.

T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

EPA United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 27626

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil
   7. Waste
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCL
   2. HNO3
   3. NaHSO4
   4. H2SO4
   5. NaOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No. 5

Sampling Co. IEPA

4. Date Shipped 11/29/99

Carrier Fed Ex

6. Date Received–Received by: 11-30-99 Carlos Pair

Sampler (Name) Bob Page

Airbill Number 3997864461

Laboratory Contract Number 68-D7-0004

Unit Price $525.00

Sampler Signature Bob Page

5. Ship To: RDP Analytical Services, Inc. Attn: Sample Receiving 1111 Fairway Drive Suite B Houston, TX 77380 ATTN: Mr. Kenneth Fowler

7. Transfer to:

Date Received

3. Purpose*
   Legal: SF, PRP, ST, FED
   Early Action: CLEM, PA, REM
   Long-Term Action: SI, ESI, RI, OIL, UST, FS, RD, RA, O&M, NPLD

Received by

Contract Number

Price

Sample Numbers (From Labels)	A Matrix (from Box 6)	B Conc. Low, Med, High	C Sample Type Comp./Grab	D Preservative (from Box 7)	Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	High Phases
EDAH1	2	L	G	N/A		5053258-72	6201	11/29/99 1330	BC	
EDAH2	2	L	G	N/A		5053941-43	6201	11/29/99 1330	BC	
EDAH3	2	L	G	N/A		5053273-77	FB	11/29/99 1330	BC	
EDAH4	2	L	G	N/A		5053280	FB	11/29/99 1330	BC	
EDAH5	2	L	G	N/A		5053278-79	TB	11/29/99 1330	BC	

Shipment for SAS Complete? (Y/N)

Page 1 of 1

Sample(s) to be Used for Laboratory QC: EDAH1

Additional Sampler Signatures

Chain of Custody Seal Number(s): 28804 & 28805

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Bob Page	11/29/99 1245				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y)/N / none	
		Carlos Pair	11-30-99 9:59	case: 27626 SDG: EDAHO	

A21-012-7 REV. 3/94

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EPA Form 9110-3

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data User means the organization which contracted the laboratory services

50666

EPA

United States Enviromental Protection Agency
Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 27626

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil
   7. Waste
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NAHSO4
   4. H2SO4
   5. NAOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: 5

Sampling Co.: J.EPA

Sampler (Name): Bob Page

Sampler Signature: Bob Page

3. Purpose*
   Less: SF, PRP, ST, FED
   Early Action: CLEM, PA, REM
   Long-Term Action: SI, ESI, RI, OIL, UST, FS, RD, RA, O&M, NPLD

4. Date Shipped: 11/28/99

Carrier: Fed Ex

Airbill Number: 8997986461

5. Ship To: PDP Analytical Services, 1660 Eastpark Circle, Suite B, Houston, TX 77380

ATTN: Sample Receiver

6. Date Received--Received by: 11-30-99 Carlos Pino

Laboratory Contract Number: 68-D7-0004

Unit Price: 525.00

7. Transfer to:

Date Received

Received by

Contract Number

Price

Sample Numbers (From Labels)	A Matrix (from Box 6)	B Conc. Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7)	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases
EDAHF	2	L	G	0	VOA	5053258-272	6201	11/29/99	BC	
EDAHB	2	L	G	0	BNA	5039441-43	6201	11/29/99	BC	
EDAHB	2	L	G	0	VOA	5053273-77	FB	11/29/99	BC	
EDAHB	2	L	G	0	BNA	5053280	FB	11/29/99 1130	BC	
EDAHB	2	L	G	0	VOA	5053278-79	TB	11/29/99 1230	BC	

Shipment for SAS Complete? (Y/N): Y

Page 1 of 1

Sample(s) to be Used for Laboratory QC: EDAHI

Additional Sampler Signatures

Chain of Custody Seal Number(s): 28804 + 28805

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Bob Page	11/29/99 1245				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y)/ N / none	
		Carlos Pino	11-30-99 9:59	case: 27626 SDG: EDAHO	

A21-012-7 REV. 394

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EPA Form 9110-3

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data User means the organization which contracted the laboratory services

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EPA

United States Enviromental Protection Agency
Contract Laboratory Program

Spec[illegible] Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 27626

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil
   7. Waste
   8. Other (Specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H2SO4
   5. NaOH
   6. Ice Only
   7. Other (Specify in Column D)
   N. Not Preserved

2. Region No.: 5

Sampling Co.: IEPA

Sampler (Name): [illegible]

Sampler Signature: [illegible]

3. Purpose*
   Legal: SF, PRP, ST, FED
   Early Action: CLEM, PA, REM
   Long-Term Action: SI, ES, RI, OIL, UST, FS, RD, RA, O&M, NPLD

4. Date Shipped: 11/29/99

Carrier: Fed Ex

Airbill Number: 3977986466

5. Ship To: DPC Analytical Services, 6160 Lusk Blvd, Suite B, San Diego, CA 92115
   ATTN: [illegible]

6. Date Received–Received by: 11-30-99 Carlos Pien

Laboratory Contract Number: 68-D[illegible]0004

Unit Price: [illegible]

7. Transfer to:

Date Received:

Received by:

Contract Number:

Prices:

Sample Numbers (From Labels)	A Matrix (from Box 6)	B Conc. Low Med High	C Sample Type Comp./Grab	D Preservative (from Box 7)	Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials
EDAH1	2	L	G	0	Pest/PCB	5-05325557	G201	11/29/99 1030	BC
EDAH0	2	L	G	0	Pest/PCB	05325[illegible]	FB	11/29/99 1[illegible]30	BC

Shipment for SAS Complete? (Y/N) Y

Page 1 of 1

Sample(s) to be Used for Laboratory QC: EDAH1

Additional Sampler Signatures:

Chain of Custody Seal Number(s): 181982 / 181983

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Bob Conger	11/29/99 1745				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y)/N/none	
		Carlos Pien	11-30-99 9:59	Case: 27626 SDG: EDAH0	

A21-012-7 REV. 3/94

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EPA Form 9110-3

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**Data User means the organization which contracted the laboratory services

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EPA United States Enviromental Protection Agency Contract Laboratory Program

Special Analytical Services Packing List/Chain of Custody

SAS No.

Case No. 27626

1. Matrix (Enter In Column A)
1. Surface Water
2. Ground Water
3. Leachate
4. Field QC
5. Soil/Sediment
6. Oil
7. Waste
8. Other (Specify In Column A)

2. Preservative *(Enter In Column D)
1. HCL
2. HNO3
3. NaHSO4
4. H2SO4
5. NaOH
6. Ice Only
7. Other (Specify In Column D)
N. Not Preserved

2. Region No. 5

Sampling Co. I EPA

Sampler (Name) Bob Cooper

Sampler Signature Bob Cooper

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM
Long-Term Action: SI, ESI, RI, OIL, UST, FS, RD, RA, O&M, NPLD

4. Date Shipped 11/29/99

Carrier Fed Ex

Airbill Number 3197786466

5. Ship To: PDP Analytical Services, Inc. 6160 Lusk Blvd Suite B San Diego, CA 92121 ATTN: Carlos Fuentes

6. Date Received–Received by: 11-30-99 Carlos Fuentes

Laboratory Contract Number 68-D7-0004

Unit Price 525.00

7. Transfer to:

Date Received

Received by

Contract Number

Price

Sample Numbers (From Labels)	A Matrix (from Box 6)	B Conc: Low, Med, High	C Sample Type Comp./Grab	D Preservative (from Box 7)	E Analysis	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J High Phases
EDAH1	2	L	G	N	Pest/PCB	5-05325557	G201	11/29/99 1030	BC	
EDAH2	2	L	G	N	Pest/PCB	5-05325281	FB	11/29/99 1330	BC	

Shipment for SAS Complete? (Y/N) Y

Page 1 of 1

Sample(s) to be Used for Laboratory QC: EDAH1

Additional Sampler Signatures

Chain of Custody Seal Number(s): 181982 / 181983

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Bob Cooper	11/29/99 1245				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks: Is custody seal intact? (Y)/ N / none	
		Carlos Fuentes	11-30-99 9:59	Case: 27626 SDG: EDAH0	

A21-012-7 REV. 3/94

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*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

**Data User means the organization which contracted the laboratory services

PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

Contract No. 68-D7-0004	Case No. 27626	SDG No. EDAH0

SDG NARRATIVE

JAN 3 2000

SAMPLE RECEIPT :

11/30/99 @0959 A.M. - Received one shipment consisting of two coolers:

Cooler 1:temperature: 4°C , Cooler 2:temperature: 3°C(COC 50666, 50667) contained the following:

EDAH0- 5-40 ml vials and 2-2.5L amber.
EDAH1- 15-40 ml vials and 6-2.5L amber.
EDAH2- 2-40 ml vials.

No problems were encountered during sample receipt.

VOLATILES:

All samples were analyzed on a HP5972 GC/MS using a 60 meters long DB-624 column having a 0.53mm ID and 3um film thickness. The trap used was a OV-1/Tenax/Silica Gel (Tekmar #6. Cat 14-1755-003) . A 20 mL purge volume was used for all samples, blanks and standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).

The following field samples are analyzed for volatiles in this SDG. The pH of the samples is listed against them.

EDAH0	2.0
EDAH1	2.0
EDAH2	2.0

Manual integration's were performed for the following samples for the compounds listed against them.

VSTD00188- Acetone, 2-Butanone, Bromochloromethane, 4-methyl-2-pentanone, 2-Hexanone, 1,2-Dibromomethane, Bromoform, 1,2-Dibromo-3-chloropropane.
VSTD00288- Acetone, 2-Butanone, 4-methyl-2-pentanone.
VSTD00588- Acetone, 1,1,2-Trichloroethane.
VSTD0595- Acetone.

These manual integration's were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration's along with the scan ranges and initials of the operator is included in the data package .
For those target compounds with low signals that required a manual search for the initial calibration, the analysts has performed the same manual search for every sample analysis to ensure that false negative results are not reported. All peaks in the calibration standards, samples and QC samples are checked manually to ensure that the software has correctly identified and integrated the peaks.

PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

Contract No. 68-D7-0004	Case No. 27626	SDG No. EDAH0

SDG NARRATIVE

SEMIVOLATILES:

The following samples were extracted using continuous liquid/liquid extraction method on 12/02/99.

EDAH0, EDAH1

All samples were analyzed on a HP 5971A GC/MS using a 30 meters long and 0.25mm ID DB-5 column . A 2uL injection was used.

Manual integration's were performed for the following samples for the compounds listed against them.

SSTD00588 - 4-Nitroaniline, Indeno (1,2,3-cd) pyrene.
SSTD01088 - 4-Nitroaniline , Indeno (1,2,3-cd) pyrene.
SSTD05088 - 4-Nitroaniline, Indeno (1,2,3-cd) pyrene.
SSTD08088- 4-Nitroaniline, Benzo (k) fluoranthrene, Indeno (1,2,3-cd) pyrene.

These manual integration's were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration's along with the scan ranges and initials of the operator is included in the data package .
For those target compounds with low signals that required a manual search for the initial calibration, the analysts has performed the same manual search for every sample analysis to ensure that false negative results are not reported. All peaks in the calibration standards, samples and QC samples are checked manually to ensure that the software has correctly identified and integrated the peaks.

PESTICIDES:

The following samples were extracted using separatory funnel extraction method on 12/02/99.

EDAH0, EDAH1

No problems were encountered during extraction.

All samples were analyzed on a HP 5890 GC using two columns manufactured by J&W :
1) DB608: 30m*0.53mmID*1um film thickness.
2) RTX1701: 30m*0.53mmID*.85um film thickness.
A 2uL injection was used.

PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

Contract No. 68-D7-0004	Case No. 27626	SDG No. EDAH0

SDG NARRATIVE

Manual integration's were performed for the following samples for the compounds listed against them.

Column DB-608
DCB- FLON18443
TCMX-
Methoxychlor-
gamma-BHC- FLON18443
Endrin Ketone- PEM61

Column DB-1701
TCMX- EDAH0, EDAH1, FLON18443, PEM72, INDAL52, INDBL52, INDBM52, AR166082, AR122182, AR124282, AR124882, AR125482
DCB-, FLON18443, INDAL52, AR124282, AR124882, AR125482
Aldrin- INDBL52, INDBM52, INDBM62
alpha-BHC- PEM72, INDAL52
gamma-BHC- INDAL52
Heptachlor- INDAL52
beta-BHC- PEM62, PEM72, INDBL52, INDBM62
delta-BHC- INDBM62
Endrin Ketone- PEM62, INDBM52, INDBM62
Methoxychlor-, FLON18443
AR1232- AR123282
AR1242-AR124282

These manual integration's were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration's along with the scan ranges and initials of the operator is included in the data package .
For those target compounds with low signals that required a manual search for the initial calibration, the analysts has performed the same manual search for every sample analysis to ensure that false negative results are not reported. All peaks in the calibration standards, samples and QC samples are checked manually to ensure that the software has correctly identified and integrated the peaks.

PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

Contract No. 68-D7-0004	Case No. 27626	SDG No. EDAH0

SDG NARRATIVE

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature:

Skud Chadha / Project Manager

Signature and Title

12/27/98

Date of Signature

Z:\NETDATA\QA\FORMS\CLP\NARR1296.DOC

2LCA

LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

	EPA SAMPLE NO.	BFB %REC #	OTHER	TOT OUT
01	VBLK95	98		0
02	VLCS95	93		0
03	EDAH0	88		0
04	EDAH1	89		0
05	EDAH2	87		0
06	VHBLK01	86		0
07				
08				
09				
10				
11				
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26				
27				
28				
29				
30				

QC LIMITS
%REC
BFB = Bromofluorobenzene (80-120)

Column to be used to flag recovery values
* Values outside of contract required QC limits

Pages 1 of 1

3LCA

LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS95

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: VLCS95 LCS Lot No.: 60

Lab File ID: E3272 Date Analyzed: 12/04/99

Purge Volume: 20.0 (mL) Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Vinyl chloride	100	107	107	60-140
1,2-Dichloroethane	100	109	109	60-140
Carbon tetrachloride	100	113	113	60-140
1,2-Dichloropropane	100	114	114	60-140
Trichloroethene	100	112	112	60-140
1,1,2-Trichloroethane	100	113	113	60-140
Benzene	100	113	113	60-140
cis-1,3-Dichloropropene	100	110	110	60-140
Bromoform	100	118	118	60-140
Tetrachloroethene	100	110	110	60-140
1,2-Dibromoethane	100	105	105	60-140
1,4-Dichlorobenzene	100	107	107	60-140

Column to be used to flag LCS recovery with an asterisk.

* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: _____

4LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

VBLK95

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: VBLK95 Date Analyzed: 12/03/99

Lab File ID: E3271 Time Analyzed: 2347

Instrument ID: E-HP5972

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VLCS95	VLCS95	E3272	0030
02	EDAH0	5688.002	E3275	0237
03	EDAH1	5688.003	E3277	0403
04	EDAH2	5688.004	E3279	0529
05	VHBLK01	5688.001	E3280	0612
06				
07				
08				
09				
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22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAH0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.002 Date Received: 11/30/99

Lab File ID: E3275 Date Analyzed: 12/04/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	0.8	J
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EDAH0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.002 Date Received: 11/30/99

Lab File ID: E3275 Date Analyzed: 12/04/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EDAH1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.003 Date Received: 11/30/99

Lab File ID: E3277 Date Analyzed: 12/04/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EDAH1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.003 Date Received: 11/30/99

Lab File ID: E3277 Date Analyzed: 12/04/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EDAH2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.004 Date Received: 11/30/99

Lab File ID: E3279 Date Analyzed: 12/04/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EDAH2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.004 Date Received: 11/30/99

Lab File ID: E3279 Date Analyzed: 12/04/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
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1LCA

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLK95

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: VBLK95 Date Received: _____

Lab File ID: E3271 Date Analyzed: 12/03/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK95

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: VBLK95 Date Received: _____

Lab File ID: E3271 Date Analyzed: 12/03/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.001 Date Received: _____

Lab File ID: E3280 Date Analyzed: 12/04/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	1	U
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	1	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

1LCE

EPA SAMPLE NO.

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VHBLK01

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.001 Date Received: _____

Lab File ID: E3280 Date Analyzed: 12/04/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.				
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1LCA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS95

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: VLCS95 Date Received: _____

Lab File ID: E3272 Date Analyzed: 12/04/99

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	Chloromethane	1	U
74-83-9	Bromomethane	1	U
75-01-4	Vinyl chloride	5	
75-00-3	Chloroethane	1	U
75-09-2	Methylene chloride	2	U
67-64-1	Acetone	5	U
75-15-0	Carbon disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
156-59-2	cis-1,2-Dichloroethene	1	U
156-60-5	trans-1,2-Dichloroethene	1	U
67-66-3	Chloroform	1	U
107-06-2	1,2-Dichloroethane	5	
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	1	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon tetrachloride	6	
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	6	
10061-01-5	cis-1,3-Dichloropropene	6	
79-01-6	Trichloroethene	6	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	6	
71-43-2	Benzene	6	
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	6	
108-10-1	4-Methyl-2-pentanone	5	U
591-78-6	2-Hexanone	5	U
127-18-4	Tetrachloroethene	5	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
106-93-4	1,2-Dibromoethane	5	
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethylbenzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylenes (total)	1	U
541-73-1	1,3-Dichlorobenzene	1	U
106-46-7	1,4-Dichlorobenzene	5	
95-50-1	1,2-Dichlorobenzene	1	U
96-12-8	1,2-Dibromo-3-chloropropane	1	U
120-82-1	1,2,4-Trichlorobenzene	1	U

2LCB
LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

	EPA SAMPLE NO.	NBZ %REC #	FBP %REC #	TPH %REC #	PHL %REC #	2FP %REC #	TBP %REC #	OTHER	TOT OUT
01	SBLK83	50	44	63	45	52	55		0
02	SLCS57	76	73	78	73	84	80		0
03	EDAH0	87	83	95	83	96	93		0
04	EDAH1	91	87	94	89	98	100		0
05									
06									
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	QC LIMITS %REC
NBZ = Nitrobenzene-d5	(23-120)
FBP = 2-Fluorobiphenyl	(30-115)
TPH = Terphenyl-d14	(18-140)
PHL = Phenol-d5	(15-115)
2FP = 2-Fluorophenol	(15-121)
TBP = 2,4,6-Tribromophenol	(15-130)

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

3LCB

LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCS57

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: SVOL489 LCS Lot No.:

Lab File ID: D8550 Date Extracted: 12/02/99

LCS Aliquot: 1000 (uL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	%REC #	QC LIMITS
Phenol	40000	27000	68	40-120
bis(2-Chloroethyl)ether	20000	15000	75	50-110
2-Chlorophenol	40000	30000	75	50-110
N-Nitroso-di-n-propylamine	20000	15000	75	30-110
Hexachloroethane	20000	10000	50	20-110
Isophorone	20000	13000	65	50-110
Naphthalene	20000	14000	70	30-110
4-Chloroaniline	40000	22000	55	10-120
2,4,6-Trichlorophenol	40000	28000	70	40-120
2,4-Dinitrotoluene	20000	11000	55	30-120
Diethylphthalate	20000	16000	80	50-120
N-Nitrosodiphenylamine	20000	11000	55	30-110
Hexachlorobenzene	20000	15000	75	40-120
Benzo(a)pyrene	20000	13000	65	50-120

Column to be used to flag LCS recovery with an asterisk.

* Values outside of QC limits.

LCS Recovery 0 outside limits out of 14 total.

COMMENTS: _____

4LCB

LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK83

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: SVOB556 Date Extracted: 12/02/99

Lab File ID: D8549 Date Analyzed: 12/09/99

Instrument ID: D-HP5971A Time Analyzed: 1958

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	SLCS57	SVOL489	D8550	12/09/99
02	EDAH0	5688.002	D8551	12/09/99
03	EDAH1	5688.003	D8552	12/09/99
04				
05				
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COMMENTS: _____

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAH0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.002 Date Received: 11/30/99

Lab File ID: D8551 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

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

060120

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAH0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.002 Date Received: 11/30/99

Lab File ID: D8551 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)Pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EDAH0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.002 Date Received: 11/30/99

Lab File ID: D8551 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.	UNKNOWN	7.57	13	J
2.	UNKNOWN	8.39	13	J
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LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAH1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.003 Date Received: 11/30/99

Lab File ID: D8552 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

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

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAH1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.003 Date Received: 11/30/99

Lab File ID: D8552 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)Pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EDAH1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: 5688.003 Date Received: 11/30/99

Lab File ID: D8552 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
1.	UNKNOWN	7.57	14	J
2.	UNKNOWN	8.39	13	J
3.				
4.				
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1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK83

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: SVOB556 Date Received: _____

Lab File ID: D8549 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

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

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK83

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: SVOB556 Date Received: _____

Lab File ID: D8549 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	5	U
84-66-2	Diethylphthalate	5	U
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	5	U
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	5	U
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	5	U
193-39-5	Indeno(1,2,3-cd)Pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SBLK83

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: SVOB556 Date Received: _____

Lab File ID: D8549 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC. (ug/L)	Q
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FORM I LCSV-TIC

OLC02.0

1LCB

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS57

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: SVOL489 Date Received: _____

Lab File ID: D8550 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
108-95-2	Phenol	27	
111-44-4	bis(2-Chloroethyl)ether	15	
95-57-8	2-Chlorophenol	30	
95-48-7	2-Methylphenol	5	U
108-60-1	2,2'-oxybis(1-Chloropropane)	5	U
106-44-5	4-Methylphenol	5	U
621-64-7	N-Nitroso-di-n-propylamine	15	
67-72-1	Hexachloroethane	10	
98-95-3	Nitrobenzene	5	U
78-59-1	Isophorone	13	
88-75-5	2-Nitrophenol	5	U
105-67-9	2,4-Dimethylphenol	5	U
111-91-1	bis(2-Chloroethoxy)methane	5	U
120-83-2	2,4-Dichlorophenol	5	U
91-20-3	Naphthalene	14	
106-47-8	4-Chloroaniline	22	
87-68-3	Hexachlorobutadiene	5	U
59-50-7	4-Chloro-3-methylphenol	5	U
91-57-6	2-Methylnaphthalene	5	U
77-47-4	Hexachlorocyclopentadiene	5	U
88-06-2	2,4,6-Trichlorophenol	28	
95-95-4	2,4,5-Trichlorophenol	20	U
91-58-7	2-Chloronaphthalane	5	U
88-74-4	2-Nitroaniline	20	U
131-11-3	Dimethylphthalate	5	U
208-96-8	Acenaphthylene	5	U
606-20-2	2,6-Dintrotoluene	5	U
99-09-2	3-Nitroaniline	20	U
83-32-9	Acenaphthene	5	U

1LCC

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS57

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: _____ SDG No.: EDAH0

Lab Sample ID: SVOL489 Date Received: _____

Lab File ID: D8550 Date Extracted: 12/02/99

Sample Volume: 1000 (mL) Date Analyzed: 12/09/99

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1 (uL)

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
51-28-5	2,4-Dinitrophenol	20	U
100-02-7	4-Nitrophenol	20	U
132-64-9	Dibenzofuran	5	U
121-14-2	2,4-Dinitrotoluene	11	
84-66-2	Diethylphthalate	16	
7005-72-3	4-Chlorophenyl-phenylether	5	U
86-73-7	Fluorene	5	U
100-01-6	4-Nitroaniline	20	U
534-52-1	4,6-Dinitro-2-methylphenol	20	U
86-30-6	N-Nitrosodiphenylamine (1)	11	
101-55-3	4-Bromophenyl-phenylether	5	U
118-74-1	Hexachlorobenzene	15	
87-86-5	Pentachlorophenol	20	U
85-01-8	Phenanthrene	5	U
120-12-7	Anthracene	5	U
84-74-2	Di-n-butylphthalate	5	U
206-44-0	Fluoranthene	5	U
129-00-0	Pyrene	5	U
85-68-7	Butylbenzylphthalate	5	U
91-94-1	3,3'-Dichlorobenzidine	5	U
56-55-3	Benzo(a)anthracene	5	U
218-01-9	Chrysene	5	U
117-81-7	bis(2-Ethylhexyl)phthalate	5	U
117-84-0	Di-n-octylphthalate	5	U
205-99-2	Benzo(b)fluoranthene	5	U
207-08-9	Benzo(k)fluoranthene	5	U
50-32-8	Benzo(a)pyrene	13	
193-39-5	Indeno(1,2,3-cd)Pyrene	5	U
53-70-3	Dibenz(a,h)anthracene	5	U
191-24-2	Benzo(g,h,i)perylene	5	U

(1) - Cannot be separated from Diphenylamine

2LCC
LOW CONC. WATER PESTICIDE SURROGATE RECOVERY

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: SDG No.: EDAH0

GC Column(1): DB-608 ID: 0.53 (mm) GC Column(2): RTX-1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX(1) %REC #	TCX(2) %REC #	DCB(1) %REC #	DCB(2) %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK52 S1	44 ~~0*~~	43	67	63			0 ~~1~~ S2
02	PLCS23 S1	44 ~~0*~~	52	68	87			0 ~~1~~ S2
03	EDAH0 S1	48 ~~0*~~	45	63	61			0 ~~1~~ S2
04	EDAH1 S1	69 ~~0*~~	45	68	69			0 ~~1~~ S2
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QC LIMITS

		%REC
S1 TCX	= Tetrachloro-m-xylene	(30-150)
S2 DCB	= Decachlorobiphenyl	(30-150)

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

3LCC

LOW CONC. WATER PESTICIDE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

PLCS23

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No: 27626 SAS No: SDG No: EDAH0

Lab Sample ID: PESL370 LCS Lot No:

LCS Aliquot 1000 (uL) Date Extracted: 12/2/99

Concentrated Extract Volume: 2000 (uL) Date Analyzed: 12/14/99

Injecton Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N

Instrument ID (1): E-HP5890A GC Column (1): DB-608 ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	100	70	70	50-120
Heptachlor Epoxide	100	81	81	50-150
Dieldrin	200	178	89	30-130
4,4'-DDE	200	156	78	50-150
Endrin	200	191	95	50-120
Endosulfan sulfate	200	163	81	50-120
gamma-Chlordane	100	82	82	30-130

Instrument ID (2): E-HP5890B GC Column (2): RTX-1701 ID: 0.53 (mm)

COMPOUND	AMOUNT ADDED (ng)	AMOUNT RECOVERED (ng)	% REC #	QC LIMITS
gamma-BHC (Lindane)	100	66	66	50-120
Heptachlor Epoxide	100	95	95	50-150
Dieldrin	200	178	89	30-130
4,4'-DDE	200	185	92	50-150
Endrin	200	215	108	50-120
Endosulfan sulfate	200	217	108	50-120
gamma-Chlordane	100	99	99	30-130

Column to be used to flag recovery values with an asterisk.
* Values outside of QC limits.
LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

4LCC

LOW CONC. WATER PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK52

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: SDG No.: EDAH0

Date Extracted: 12/02/99 Lab Sample ID: PESB422

Date Analyzed (1): 12/14/99 Date Analyzed (2): 12/14/99

Time Analyzed (1): 0030 Time Analyzed (2): 0059

Instrument ID (1): E-HP5890A Instrument ID (2): E-HP5890B

GC Column (1): DB-608 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

Sulfur Cleanup (Y/N) N Extraction:(SepF/Cont) SEPF

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	PLCS23	PESL370	12/14/99	12/14/99
02	EDAH0	5688.002	12/14/99	12/14/99
03	EDAH1	5688.003	12/14/99	12/14/99
04				
05				
06				
07				
08				
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24				
25				
26				

COMMENTS:

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAH0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: SDG No.: EDAH0

Lab Sample ID: 5688.002 Date Received: 11/30/99

Sample Volume: 1000.00 (mL) Date Extracted: 12/02/99

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/14/99

Injection Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
7421-36-3	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
12789-03-6	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.000	U
12674-11-2	Aroclor-1016	0.200	U
1104-28-2	Aroclor-1221	0.400	U
11141-16-5	Aroclor-1232	0.200	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDAH1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: SDG No.: EDAH0

Lab Sample ID: 5688.003 Date Received: 11/30/99

Sample Volume: 1000.00 (mL) Date Extracted: 12/02/99

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/14/99

Injection Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
7421-36-3	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
12789-03-6	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.000	U
12674-11-2	Aroclor-1016	0.200	U
1104-28-2	Aroclor-1221	0.400	U
11141-16-5	Aroclor-1232	0.200	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK52

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: SDG No.: EDAH0

Lab Sample ID: PESB422 Date Received: _____

Sample Volume: 1000.00 (mL) Date Extracted: 12/02/99

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/14/99

Injection Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.010	U
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.010	U
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.020	U
72-55-9	4,4'-DDE	0.020	U
72-20-8	Endrin	0.020	U
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.020	U
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
7421-36-3	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
12789-03-6	gamma-Chlordane	0.010	U
8001-35-2	Toxaphene	1.000	U
12674-11-2	Aroclor-1016	0.200	U
1104-28-2	Aroclor-1221	0.400	U
11141-16-5	Aroclor-1232	0.200	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS23 (1)

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: SDG No.: EDAH0

Lab Sample ID: PESL370 Date Received: _____

Sample Volume: 1000.00 (mL) Date Extracted: 12/02/99

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/14/99

Injection Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.069	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.081	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.178	
72-55-9	4,4'-DDE	0.156	
72-20-8	Endrin	0.190	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.162	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
7421-36-3	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
12789-03-6	gamma-Chlordane	0.082	
8001-35-2	Toxaphene	1.000	U
12674-11-2	Aroclor-1016	0.200	U
1104-28-2	Aroclor-1221	0.400	U
11141-16-5	Aroclor-1232	0.200	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

1LCD

LOW CONC. WATER PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PLCS23 (2)

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27626 SAS No.: SDG No.: EDAH0

Lab Sample ID: PESL370 Date Received: _____

Sample Volume: 1000.00 (mL) Date Extracted: 12/02/99

Concentrated Extract Volume: 2000(uL) Date Analyzed: 12/14/99

Injection Volume: 2 (uL) Dilution Factor: 1.0

Sulfur Cleanup: (Y/N) N Extraction: (SepF/Cont) SEPF

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
319-84-6	alpha-BHC	0.010	U
319-85-7	beta-BHC	0.010	U
319-86-8	delta-BHC	0.010	U
58-89-9	gamma-BHC (Lindane)	0.066	
76-44-8	Heptachlor	0.010	U
309-00-2	Aldrin	0.010	U
1024-57-3	Heptachlor epoxide	0.094	
959-98-8	Endosulfan I	0.010	U
60-57-1	Dieldrin	0.178	
72-55-9	4,4'-DDE	0.184	
72-20-8	Endrin	0.215	
33213-65-9	Endosulfan II	0.020	U
72-54-8	4,4'-DDD	0.020	U
1031-07-8	Endosulfan sulfate	0.216	
50-29-3	4,4'-DDT	0.020	U
72-43-5	Methoxychlor	0.100	U
53494-70-5	Endrin ketone	0.020	U
7421-36-3	Endrin aldehyde	0.020	U
5103-71-9	alpha-Chlordane	0.010	U
12789-03-6	gamma-Chlordane	0.099	
8001-35-2	Toxaphene	1.000	U
12674-11-2	Aroclor-1016	0.200	U
1104-28-2	Aroclor-1221	0.400	U
11141-16-5	Aroclor-1232	0.200	U
53469-21-9	Aroclor-1242	0.200	U
12672-29-6	Aroclor-1248	0.200	U
11097-69-1	Aroclor-1254	0.200	U
11096-82-5	Aroclor-1260	0.200	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: EDAH0 CERCLIS No: ILD 043 912 922

Case No: 27626 Site Name Location: INSTA FOAM PROD.

Contractor or EPA Lab: PDP Data User: IEPA

No. of Samples: 3 Date Sampled or Data Received: 1-3-2000

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 3 No. of samples received: 3

Received by: A. C. Harvey / ESAT Date: 1-3-2000

Received by LSSS: A. C. Harvey / ESAT Date: 1-3-2000

Review started: 1/4/99 Reviewer Signature: [signature]

Total time spent on review: 4 Date review completed: 1/4/99

Copied by: A. C. Harvey / ESAT Date: 1-10-2000

Mailed to user by: A. C. Harvey / ESAT Date: 1-10-2000

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Data: ____

DATE: January 11, 2000

TO: IEPA
1021 North Grand Avenue East
SpringfieLd, IL 62702

Attn: Bob Casper

SITE NAME: INSTA FOAM PRODUCTS

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
27626	SENTINEL	6	MECLD0	Soil

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:
Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

RECEIVED
JAN 13 2000
IEPA-BOL-FSRS

Sent By: Allison Harvey, ESAT

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 1/10/00

SUBJECT: **Review of Data**
Received for Review on December 22, 1999

FROM: **Stephen L. Ostrodka, Chief (SRT-4J)**
Superfund Technical Support Section / LF

TO: **Data User:** IEPA

We have reviewed the data for the following case:

Site name: Insta Foam Products (IL)

Case number: 27626 **SDG NUMBER:** MECLD0

Number and Type of Samples: 6 soil samples

Sample Numbers: MECLD0-MECLD5

Laboratory: Sentinel **Hrs. for Review:** 8 hrs +0.5

Following are our findings:

Non-detected results for Sb, Cd, Se are unusable (R) due to extremely low spike recovery (<30%). All other data are usable with the qualifications described in the attached narrative.

L. Finkelburg
1/10/00

RECEIVED
JAN 13 2000
IEPA-BOL-FSRS

CC: Cecilia Luckett
Region 5 TPO
Mail Code: SM-5J

Case Number: 27626
Site Name: Insta Foam Products (IL)

SDG Number: MECLD0
Laboratory: Sentinel

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Six soil samples, numbered MECLD0-MECLD5 were collected on 11/29/99. The lab received the samples on 12/01/99 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.0 analysis procedure.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Corrections on forms I and III were made by the reviewer.

Case Number: 27626
Site Name: Insta Foam Products (IL)

SDG Number: MECLD0
Laboratory: Sentinel

1. HOLDING TIME:

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

2. CALIBRATIONS:

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems were found for this qualification.

3. BLANKS:

LABORATORY BLANKS CRITERIA

The following inorganic samples are associated with a negative initial, continuing or preparation blank concentration whose absolute value is greater than the instrument detection limit (IDL). The sample concentration is greater than the IDL and less than five times the absolute value of the blank concentration. Hits are qualified "J". Some non-detect concentration readings are sufficiently high that the negative blank reading may have caused the IDL to be elevated. These non-detects are flagged "UJ".

Case Number: 27626
Site Name: Insta Foam Products (IL)

SDG Number: MECLD0
Laboratory: Sentinel

Antimony
MECLD1, MECLD4

Cadmium
MECLD2, MECLD3

Silver
MECLD0, MECLD2, MECLD3, MECLD5

Sodium
MECLD2, MECLD3, MECLD5

Cyanide
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

The following inorganic samples are associated with a blank concentration is greater than the instrument detection limit (IDL). The sample concentration is greater than the IDL and less than five times the absolute value of the blank concentration. Hits are qualified "J". Some non-detect concentration readings are sufficiently high that the negative blank reading may have caused the IDL to be elevated. These non-detects are flagged "UJ".

Selenium
MECLD0, MECLD1, MECLD3, MECLD4

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-267: The following inorganic samples are associated with a matrix spike recovery which is high (>125%). Hits are qualified "J" and non-detects are not flagged.

Arsenic
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Case Number: 27626
Site Name: Insta Foam Products (IL)

SDG Number: MECLD0
Laboratory: Sentinel

Chromium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Manganese
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low. Hits are qualified "J" and non-detects are qualified "UJ".

Barium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Beryllium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Cobalt
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Copper
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Silver
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Thallium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Vanadium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Cyanide
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

DC-269: The following inorganic samples are associated with a matrix spike recovery which is extremely low (<30 %) indicating that sample results may be biased low. Hits are qualified "J" and non-detects are qualified "R".

Antimony
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Cadmium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Selenium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Case Number: 27626
Site Name: Insta Foam Products (IL)

SDG Number: MECLD0
Laboratory: Sentinel

Zinc
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

5. LABORATORY AND FIELD DUPLICATE

DC-256: The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) criteria. Hits and non-detects are qualified "J".

Aluminum
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Chromium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Copper
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Iron
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Lead
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Zinc
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

DC-330: The following inorganic samples are associated with duplicate results which did not meet absolute difference criteria. Hits and non-detects are qualified "J".

Arsenic
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Nickel
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Sodium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

6. ICP ANALYSIS

DC-294: The analyte concentration is high (>50 X the IDL) and serial dilution percent difference is not in control (>10%). All associated data are qualified "J".

Potassium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Case Number: 27626
Site Name: Insta Foam Products (IL)

SDG Number: MECLD0
Laboratory: Sentinel

DC-295: The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control. The serial dilution result is greater than the sample result, indicating a potential negative interference. The data must be qualified using professional judgement. All associated data are estimated "J".

Cadmium
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Copper
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Lead
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

Nickel
MECLD0, MECLD1, MECLD2, MECLD3, MECLD4, MECLD5

7. GFAA ANALYSIS

NA

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation lin
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 27626 SDG : MECLD0
Site : INSTA FOAM PRODUCTS
Lab. : Sentinel
Reviewer : S. Tobin
Date : 01/05/00

Number of Soil Samples : 6
Number of Water Samples : 0

Sample Number :	MECLD0		MECLD1		MECLD2		MECLD3		MECLD4	
Sampling Location :	X102		X103		X104		X105		X106	
Matrix :	Soil		Soil		Soil		Soil		Soil	
Units :	mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
Date Sampled :	11/29/1999		11/29/1999		11/29/1999		11/29/1999		11/29/1999	
Time Sampled :	13:30		13:30		15:00		15:30		16:00	
%Solids :	73.7		75.3		54.9		83.7		75.8	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	7830	J	7000	J	4230	J	3260	J	19000	J
ANTIMONY	0.57	R	0.61	J	0.75	R	0.50	R	0.96	J
ARSENIC	9.2	J	8.3	J	8.0	J	4.5	J	8.2	J
BARIUM	107	J	91.0	J	40.7	J	46.3	J	150	J
BERYLLIUM	0.90	J	0.64	J	0.39	J	0.62	J	1.1	J
CADMIUM	4.6	J	1.5	J	0.16	J	0.30	J	7.6	J
CALCIUM	56300		70800		125000		109000		35000	
CHROMIUM	50.1	J	59.7	J	142	J	8.1	J	137	J
COBALT	7.1	J	7.7	J	8.1	J	4.3	J	7.2	J
COPPER	59.4	J	63.7	J	26.6	J	17.3	J	55.8	J
IRON	15200	J	18900	J	14700	J	20300	J	18000	J
LEAD	118	J	114	J	319	J	48.7	J	665	J
MAGNESIUM	21400		37000		76400		63300		22000	
MANGANESE	271	J	292	J	298	J	251	J	307	J
MERCURY	0.080		0.13		0.39		0.060	U	0.14	
NICKEL	32.3	J	34.6	J	20.9	J	14.2	J	40.3	J
POTASSIUM	1030	J	774	J	1570	J	985	J	1590	J
SELENIUM	1.3	J	1.2	J	0.64	R	1.1	J	1.9	J
SILVER	0.55	J	0.80	J	0.28	J	0.14	J	1.0	J
SODIUM	1400	J	1900	J	55.4	J	88.9	J	26100	J
THALLIUM	0.57	UJ	0.56	UJ	0.75	UJ	0.50	UJ	0.55	UJ
VANADIUM	21.0	J	17.1	J	8.6	J	25.7	J	20.4	J
ZINC	264	J	222	J	74.2	J	81.2	J	398	J
CYANIDE	0.28	J	0.18	J	0.21	J	0.16	J	0.38	J

Analytical Results (Qualified Data)

Case # 27626	SDG MECL0C		
Site	INSTA FOAM PRODUCTS	Number of Soil Samples :	6
Lab	Sentinel	Number of Water Samples :	0
Reviewer	S. Tobin		
Date	01/05/00		

Sample Number	MECLD5									
Sampling Location	X107									
Matrix	Soil									
Units	mg/Kg									
Date Sampled	11/29/1999									
Time Sampled	16 30									
%Solids	81 9									
Dilution Factor	1.0									
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	9640	J								
ANTIMONY	0 51	R								
ARSENIC	8 0	J								
BARIUM	91 8	J								
BERYLLIUM	0 52	J								
CADMIUM	0 070	R								
CALCIUM	64900									
CHROMIUM	13 4	J								
COBALT	6 1	J								
COPPER	18 5	J								
IRON	15300	J								
LEAD	50 1	J								
MAGNESIUM	40300									
MANGANESE	407	J								
MERCURY	0 060	U								
NICKEL	14 5	J								
POTASSIUM	1370	J								
SELENIUM	0 44	R								
SILVER	0 31	J								
SODIUM	37 9	J								
THALLIUM	0 51	UJ								
VANADIUM	21 7	J								
ZINC	69 2	J								
CYANIDE	0 17	J								

QC EXCEPTION SUMMARY REPORT

:\SAS#: 27626 SITE: Insta Foam Products MATRIX: Soil WATER SAMPLE SPK: NA

\ SET: MECLDØ LAB: Sentinel CONC: low WATER SAMPLE DUP: NA

QC # MECLDØ REVIEWED BY: Stephanie Tobin SOIL SAMPLE SPK: MECLDØ

:: 1-4-00 SOIL SAMPLE DUP: MECLDØ

A #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	SOIL SPIKE %R	SOIL DUP RPD	ICS AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP %R	AQ SPIKE %R	BLANK	DUP RPD	BLANK	DUP RPD	
MINUM	OK	OK	OK		NA		OK		50.5	NA	OK	NA		NA	NA					
MONY						-.640		7.5												
NIC								329.0	46.2											
UM				2.4				43.9	52.4											
LLIUM								44.6												
MIUM				-.6		~~-.060~~		17.0					102.4							
IUM																				
OMIUM 3				~~.3~~		~~-.060~~		142.	84.1											
ALT								55.5												
PER				~~.8~~				44.6	144.6				59.8							
									60.4											
D				~~1.6~~					53.4				10.9							
NESIUM																				
GANESE								201.2												
CURY																				
EL									54.9				35.7							
ASSIUM				~~8.8~~ -13.6		~~-3.320~~							10.8							
NIUM				1.9				15.0												
ER 4				~~.4~~ -.4		-.120		48.0												
UM				-603.1		-72.120			115.9											
LLIUM								43.7												
ADIUM								62.0												
								0.9	89.7											
NIDE				-1.6		-.079		70.5												

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID.
MECLD0	27479S
MECLD0D	27479S2
MECLD0S	27479DS
MECLD1	27480S
MECLD2	27481S
MECLD3	27482S
MECLD4	27483S
MECLD5	27484S

DEC 22 1999

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: Cd, Cu, Pb, Ni & K are estimated due to possible matrix interferences. The cooler temperature measured 1.5°C.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [signature] Name: Bakilgwe

Date: 12/17/99 Title: OAOfcr

EPA SAMPLE NO.

MECLD0

INORGANIC ANALYSIS DATA SHEET

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Matrix (soil/water): SOIL Lab Sample ID: 27479S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 73.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7830		*	P
7440-36-0	Antimony	0.57	U	N	P
7440-38-2	Arsenic	9.2		N*	P
7440-39-3	Barium	107		N*	P
7440-41-7	Beryllium	0.90	B	N	P
7440-43-9	Cadmium	4.6		NE	P
7440-70-2	Calcium	56300			P
7440-47-3	Chromium	50.1		N*	P
7440-48-4	Cobalt	7.1	B	N	P
7440-50-8	Copper	59.4		N*E	P
7439-89-6	Iron	15200		*	P
7439-92-1	Lead	118		*E	P
7439-95-4	Magnesium	21400		*	P
7439-96-5	Manganese	271		N*	P
7439-97-6	Mercury	0.08	B		CV
7440-02-0	Nickel	32.3		*E	P
7440-09-7	Potassium	1030	B	E	P
7782-49-2	Selenium	1.3	B	N	P
7440-22-4	Silver	.55 ~~0.54~~	B	N	P
7440-23-5	Sodium	1400		*	P
7440-28-0	Thallium	0.57	U	N	P
7440-62-2	Vanadium	21.0		N	P
7440-66-6	Zinc	264		N*	P
	Cyanide	0.28	B	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MECLD1

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Matrix (soil/water): SOIL Lab Sample ID: 27480S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 75.3

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7000		*	P
7440-36-0	Antimony	0.61	B	N	P
7440-38-2	Arsenic	8.3		N*	P
7440-39-3	Barium	91.0		N*	P
7440-41-7	Beryllium	0.64	B	N	P
7440-43-9	Cadmium	1.5		NE	P
7440-70-2	Calcium	70800			P
7440-47-3	Chromium	59.7		N*	P
7440-48-4	Cobalt	7.7	B	N	P
7440-50-8	Copper	63.7		N*E	P
7439-89-6	Iron	18900		*	P
7439-92-1	Lead	114		*E	P
7439-95-4	Magnesium	37000		*	P
7439-96-5	Manganese	292		N*	P
7439-97-6	Mercury	0.13			CV
7440-02-0	Nickel	34.6		*E	P
7440-09-7	Potassium	774	B	E	P
7782-49-2	Selenium	1.2	B	N	P
7440-22-4	Silver	0.80	B	N	P
7440-23-5	Sodium	1900		*	P
7440-28-0	Thallium	0.56	U	N	P
7440-62-2	Vanadium	17.1		N	P
7440-66-6	Zinc	222		N*	P
	Cyanide	0.18	B	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

MECLD2

INORGANIC ANALYSIS DATA SHEET

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Matrix (soil/water): SOIL Lab Sample ID: 27481S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 54.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4230		*	P
7440-36-0	Antimony	0.75	U	N	P
7440-38-2	Arsenic	8.0		N*	P
7440-39-3	Barium	40.7	B	N*	P
7440-41-7	Beryllium	0.39	B	N	P
7440-43-9	Cadmium	.16 ~~0.14~~	B	NE	P
7440-70-2	Calcium	125000			P
7440-47-3	Chromium	142		N*	P
7440-48-4	Cobalt	8.1	B	N	P
7440-50-8	Copper	26.6		N*E	P
7439-89-6	Iron	14700		*	P
7439-92-1	Lead	319		*E	P
7439-95-4	Magnesium	76400		*	P
7439-96-5	Manganese	298		N*	P
7439-97-6	Mercury	0.39			CV
7440-02-0	Nickel	20.9		*E	P
7440-09-7	Potassium	1570	B	E	P
7782-49-2	Selenium	0.64	U	N	P
7440-22-4	Silver	.28 ~~0.29~~	B	N	P
7440-23-5	Sodium	55.4	U	*	P
7440-28-0	Thallium	0.75	U	N	P
7440-62-2	Vanadium	8.6	B	N	P
7440-66-6	Zinc	74.2		N*	P
	Cyanide	0.21	B	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MECLD3

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Matrix (soil/water): SOIL Lab Sample ID: 27482S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 83.7

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3260		*	P
7440-36-0	Antimony	0.50	U	N	P
7440-38-2	Arsenic	4.5		N*	P
7440-39-3	Barium	46.3	B	N*	P
7440-41-7	Beryllium	0.62	B	N	P
7440-43-9	Cadmium	.60 ~~0.29~~	B	NE	P
7440-70-2	Calcium	109000			P
7440-47-3	Chromium	8.1		N*	P
7440-48-4	Cobalt	4.3	B	N	P
7440-50-8	Copper	17.3		N*E	P
7439-89-6	Iron	20300		*	P
7439-92-1	Lead	48.7		*E	P
7439-95-4	Magnesium	63300		*	P
7439-96-5	Manganese	251		N*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	14.2		*E	P
7440-09-7	Potassium	985	B	E	P
7782-49-2	Selenium	1.1	B	N	P
7440-22-4	Silver	0.14	B	N	P
7440-23-5	Sodium	88.9	B	*	P
7440-28-0	Thallium	0.50	U	N	P
7440-62-2	Vanadium	25.7		N	P
7440-66-6	Zinc	81.2		N*	P
	Cyanide	0.16	B	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

MECLD4

INORGANIC ANALYSIS DATA SHEET

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Matrix (soil/water): SOIL Lab Sample ID: 27483S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 75.8

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	19000		*	P
7440-36-0	Antimony	.96 ~~0.95~~	B	N	P
7440-38-2	Arsenic	8.2		N*	P
7440-39-3	Barium	150		N*	P
7440-41-7	Beryllium	1.1	B	N	P
7440-43-9	Cadmium	7.6		NE	P
7440-70-2	Calcium	35000			P
7440-47-3	Chromium	137		N*	P
7440-48-4	Cobalt	7.2	B	N	P
7440-50-8	Copper	55.8		N*E	P
7439-89-6	Iron	18000		*	P
7439-92-1	Lead	665		*E	P
7439-95-4	Magnesium	22000		*	P
7439-96-5	Manganese	307		N*	P
7439-97-6	Mercury	0.14			CV
7440-02-0	Nickel	40.3		*E	P
7440-09-7	Potassium	1590		E	P
7782-49-2	Selenium	1.9		N	P
7440-22-4	Silver	1.0	B	N	P
7440-23-5	Sodium	26100		*	P
7440-28-0	Thallium	0.55	U	N	P
7440-62-2	Vanadium	20.4		N	P
7440-66-6	Zinc	398		N*	P
	Cyanide	0.38	B	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MECLD5

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Matrix (soil/water): SOIL Lab Sample ID: 27484S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 81.9

Concentration Units (ug/L or mg/Kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9540		*	P
7440-36-0	Antimony	0.51	U	N	P
7440-38-2	Arsenic	8.0		N*	P
7440-39-3	Barium	91.8		N*	P
7440-41-7	Beryllium	.52 ~~0.51~~	B	N	P
7440-43-9	Cadmium	0.07	U	NE	P
7440-70-2	Calcium	64900			P
7440-47-3	Chromium	13.4		N*	P
7440-48-4	Cobalt	6.1	B	N	P
7440-50-8	Copper	18.5		N*E	P
7439-89-6	Iron	15300		*	P
7439-92-1	Lead	50.1		*E	P
7439-95-4	Magnesium	40300		*	P
7439-96-5	Manganese	407		N*	P
7439-97-6	Mercury	0.06	U		CV
7440-02-0	Nickel	14.5		*E	P
7440-09-7	Potassium	1370		E	P
7782-49-2	Selenium	0.44	U	N	P
7440-22-4	Silver	.31 ~~0.32~~	B	N	P
7440-23-5	Sodium	37.9	U	*	P
7440-28-0	Thallium	0.51	U	N	P
7440-62-2	Vanadium	21.7		N	P
7440-66-6	Zinc	69.2		N*	P
	Cyanide	0.17	B	N	CA

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

U.S. EPA - CLP

3

BLANKS

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	34.9	U	34.9	U	34.9	U	34.9	U	6.980	U	P
Antimony	2.1	U	2.1	U	2.1	U	2.1	U	-0.640	B	P
Arsenic	2.2	U	2.2	U	2.2	U	2.2	U	0.440	U	P
Barium	0.8	U	0.8	B	2.4	B	1.0	B	0.160	U	P
Beryllium	0.1	U	0.1	U	0.1	U	0.1	U	0.020	U	P
Cadmium	0.3	U	0.3	U	-0.6	B	0.3	U	-0.060	B	P
Calcium	2592.0	U	2592.0	U	2592.0	U	2592.0	U	518.400	U	P
Chromium	0.3	U	0.3	~~B~~ U	0.3	U	0.3	U	+0.060	~~B~~ U	P ST 1-5.00
Cobalt	0.6	U	0.6	U 1-5.00	0.6	U	0.6	U	0.120	U	P
Copper	0.5	U	0.5	U	0.5	U	0.8	B	0.100	U	P
Iron	18.6	U	18.6	U	18.6	U	18.6	U	3.720	U	P
Lead	1.6	B	1.1	U	1.1	B	1.1	B	0.220	U	P
Magnesium	38.8	U	38.8	U	38.8	U	38.8	U	7.760	U	P
Manganese	2.4	U	2.4	U	2.4	U	2.4	U	0.480	U	P
Mercury	0.1	U	0.1	U	0.1	U	0.1	U	0.050	U	CV
Nickel	1.3	U	1.3	U	1.3	U	1.3	U	0.260	U	P
Potassium	8.8	B	3.2	U	ST 1-5.00 -13.6	B	3.2	U	-3.320	B	P
Selenium	1.9	B	1.8	U	1.8	U	1.8	U	0.360	U	P
Silver	0.4	U	0.4	~~B~~ U	-0.4	B	-0.4	B	-0.120	B	P
Sodium	155.1	U	-237.8	B	-603.1	B	155.1	U	-72.120	B	P
Thallium	2.1	U	2.1	U	2.1	U	2.1	U	0.420	U	P
Vanadium	0.5	U	0.5	U	0.5	U	0.5	U	0.100	U	P
Zinc	12.9	U	12.9	U	12.9	U	12.9	U	2.580	U	P
Cyanide	-1.6	B	-1.6	B	-1.6	B	1.0	U	-0.079	B	CA

3

BLANKS

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	2.2	U	2.4	B	2.2	U					P
Barium	0.8	U	0.8	B	0.8	U					P
Beryllium											NR
Cadmium	0.3	U	0.3	U	0.3	U					P
Calcium											NR
Chromium	0.3	B	0.5	B	0.3	U					P
Cobalt											NR
Copper	0.5	U	0.5	U	0.5	U					P
Iron											NR
Lead											NR
Magnesium											NR
Manganese	2.4	U	2.4	U	2.4	U					P
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium	0.5	U	0.5	U	0.5	U					P
Zinc	12.9	U	12.9	U	12.9	U					P
Cyanide											NR

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MECLD0S

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

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

% Solids for Sample: 73.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	10.2035	B	0.5699	U	135.69	7.5	N	P
Arsenic	75-125	44.9118		9.2157		10.85	329.0	N	P
Barium	75-125	345.2917		106.8657		542.74	43.9	N	P
Beryllium	75-125	6.9471		0.8955	B	13.57	44.6	N	P
Cadmium	75-125	6.8657		4.5590		13.57	17.0	N	P
Calcium									NR
Chromium	75-125	127.2185		50.1493		54.27	142.0	N	P
Cobalt	75-125	82.3609		7.1099	B	135.69	55.5	N	P
Copper	75-125	89.6608		59.4301		67.84	44.6	N	P
Iron									NR
Lead		220.2497		117.7585		5.43	1887.5		P
Magnesium									NR
Manganese	75-125	544.5319		271.4790		135.69	201.2	N	P
Mercury	75-125	0.7463		0.0814	B	0.68	97.8		CV
Nickel	75-125	188.3311		32.2931		135.69	115.0		P
Potassium									NR
Selenium	75-125	1.7151		1.3080	B	2.71	15.0	N	P
Silver	75-125	7.0556		0.5427	B	13.57	48.0	N	P
Sodium									NR
Thallium	75-125	5.9322		0.5699	U	13.57	43.7	N	P
Vanadium	75-125	105.1832		21.0041		135.69	62.0	N	P
Zinc	75-125	265.5088		264.2334		135.69	0.9	N	P
Cyanide	75-125	5.0624		0.2812	B	6.78	70.5	N	CA

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MECLD0A

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

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

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		116.50		2.10	U	120.0	97.1		P
Arsenic		94.10		33.96		67.9	88.6		P
Barium		1151.40		393.80		787.4	96.2		P
Beryllium		12.40		3.30	B	10.0	91.0		P
Cadmium		48.80		16.80		33.7	95.0		P
Calcium									NR
Chromium		545.20		184.80		369.4	97.6		P
Cobalt		116.90		26.20	B	100.0	90.7		P
Copper		658.00		219.00		438.1	100.2		P
Iron									NR
Lead									NR
Magnesium									NR
Manganese		2956.20		1000.40		2000.8	97.8		P
Mercury									NR
Nickel									NR
Potassium									NR
Selenium		15.52		4.82	B	10.0	107.0		P
Silver									NR
Sodium									NR
Thallium		19.12		2.10	U	20.0	95.6		P
Vanadium		224.20		77.40		154.7	94.9		P
Zinc		2899.60		973.70		1947.5	98.9		P
Cyanide		17.94		4.14	B	20.0	69.0		CA

Comments:

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DUPLICATES

EPA SAMPLE NO.

MECLD0D

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

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

% Solids for Sample: 73.7 % Solids for Duplicate: 77.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		7830.0678		13125.1018		50.5	*	P
Antimony		0.5699	U	0.5699	U			P
Arsenic	2.7	9.2157		14.7463		46.2	*	P
Barium	54.3	106.8657		182.6866		52.4	*	P
Beryllium		0.8955	B	1.0041	B	11.4		P
Cadmium	1.4	4.5590		5.4274		17.4		P
Calcium		56309.0366		51334.9796		9.2		P
Chromium		50.1493		122.9308		84.1	*	P
Cobalt		7.1099	B	9.1995	B	25.6		P
Copper		59.4301		369.5251		144.6	*	P
Iron		15166.0787		28299.4573		60.4	*	P
Lead		117.7585		203.6364		53.4	*	P
Magnesium		21411.4247		26881.3840		22.7	*	P
Manganese		271.4790		360.9769		28.3	*	P
Mercury		0.0814	B	0.1085	B	28.5		CV
Nickel	10.9	32.2931		56.7164		54.9	*	P
Potassium		1028.6024	B	1337.4763	B	26.1		P
Selenium		1.3080	B	0.9444	B	32.3		P
Silver		0.5427	B	1.5739	B	97.4		P
Sodium	1356.9	1404.8304		5274.6811		115.9	*	P
Thallium		0.5699	U	0.5699	U			P
Vanadium	13.6	21.0041		15.4681		30.4		P
Zinc		264.2334		693.9213		89.7	*	P
Cyanide		0.2812	B	0.5569	B	65.8		CA

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

MECLD0L

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

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

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	28853.80		27394.50		5.1		P
Antimony	2.10	U	10.50	U			P
Arsenic	33.96		21.60	B	36.4		P
Barium	393.80		372.00	B	5.5		P
Beryllium	3.30	B	3.00	B	9.1		P
Cadmium	16.80		34.00		102.4	E	P
Calcium	207498.80		200612.00		3.3		P
Chromium	184.80		176.00		4.8		P
Cobalt	26.20	B	65.00	B	148.1		P
Copper	219.00		350.00		59.8	E	P
Iron	55887.00		53522.00		4.2		P
Lead	433.94		481.15		10.9	E	P
Magnesium	78901.10		73974.50		6.2		P
Manganese	1000.40		1096.00		9.6		P
Mercury							NR
Nickel	119.00		161.50	B	35.7	E	P
Potassium	3790.40	B	3382.00	B	10.8	E	P
Selenium	4.82	B	9.00	U	100.0		P
Silver	2.00	B	2.00	B	0.0		P
Sodium	5176.80		3084.00	B	40.4		P
Thallium	2.10	U	12.70	B			P
Vanadium	77.40		73.00	B	5.7		P
Zinc	973.70		1050.00		7.8		P

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

ICP ID Number: P4 Date: 10/15/99

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	34.9	P
Antimony	206.80		60	2.1	P
Arsenic	189.00		10	2.2	P
Barium	493.40		200	0.8	P
Beryllium	313.00		5	0.1	P
Cadmium	226.50		5	0.3	P
Calcium	317.90		5000	2592.0	P
Chromium	267.70		10	0.3	P
Cobalt	228.60		50	0.6	P
Copper	324.70		25	0.5	P
Iron	271.40		100	18.6	P
Lead	220.30		3	1.1	P
Magnesium	279.00		5000	38.8	P
Manganese	257.60		15	2.4	P
Mercury			0.2		NR
Nickel	231.60		40	1.3	P
Potassium	766.40		5000	3.2	P
Selenium	196.00		5	1.8	P
Silver	328.00		10	0.4	P
Sodium	330.20		5000	155.1	P
Thallium	190.80		10	2.1	P
Vanadium	292.40		50	0.5	P
Zinc	206.20		20	12.9	P
Cyanide			10		NR

Comments:
P4: THERMO JARRELL ASH

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

ICP ID Number: Date: 10/15/99

Flame AA ID Number: C5

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.60		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide.			10		NR

Comments:
C5: CETAC M6000

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

ICP ID Number: Date: 10/15/99

Flame AA ID Number: C1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.0	CA

Comments:
C1: LACHAT

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PREPARATION LOG

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Method: P

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/10/99	1.00	200
MECLD0	12/10/99	1.00	200
MECLD0D	12/10/99	1.00	200
MECLD0S	12/10/99	1.00	200
MECLD1	12/10/99	1.00	200
MECLD2	12/10/99	1.02	200
MECLD3	12/10/99	1.00	200
MECLD4	12/10/99	1.00	200
MECLD5	12/10/99	1.00	200
PBS	12/10/99	1.00	200

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PREPARATION LOG

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: **SDG No.:** MECLD0

Method: CV

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/09/99	0.20	100
MECLD0	12/09/99	0.20	100
MECLD0D	12/09/99	0.20	100
MECLD0S	12/09/99	0.20	100
MECLD1	12/09/99	0.20	100
MECLD2	12/09/99	0.20	100
MECLD3	12/09/99	0.20	100
MECLD4	12/09/99	0.20	100
MECLD5	12/09/99	0.20	100
PBS	12/09/99	0.20	100

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PREPARATION LOG

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Method: CA

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSS	12/08/99	1.00	50
MECLD0	12/08/99	1.00	50
MECLD0D	12/08/99	1.00	50
MECLD0S	12/08/99	1.00	50
MECLD1	12/08/99	1.00	50
MECLD2	12/08/99	1.00	50
MECLD3	12/08/99	1.00	50
MECLD4	12/08/99	1.00	50
MECLD5	12/08/99	1.00	50
PBS	12/08/99	1.00	50
S100	12/08/99		50

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ANALYSIS RUN LOG

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Instrument ID Number: P4 Method: P

Start date: 12/14/99 End date: 12/14/99

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1658		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
S	1.00	1703		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICV	1.00	1709		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1.00	1714		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI	1.00	1720			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1725		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1730		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1736		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1741		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
PBS	1.00	1747		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCSS	1.00	1752		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MECLD0L	5.00	1757		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MECLD0	1.00	1803		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MECLD0D	1.00	1808		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MECLD0S	1.00	1813			X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X	
MECLD0A	1.00	1819			X			X				X									X			X			
MECLD1	1.00	1824		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MECLD2	1.00	1830		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1835		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1840		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MECLD3	1.00	1846		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MECLD4	1.00	1851		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MECLD5	1.00	1857		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRI	1.00	1902			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1.00	1907		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1.00	1913		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1.00	1918		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1.00	1924		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

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ANALYSIS RUN LOG

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Instrument ID Number: P4 Method: P

Start date: 12/15/99 End date: 12/15/99

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1351				X	X		X		X		X				X								X	X	
S	1.00	1356				X	X		X		X		X				X								X	X	
ICV	1.00	1401				X	X		X		X		X				X								X	X	
ICB	1.00	1405				X	X		X		X		X				X								X	X	
CRI	1.00	1410				X			X		X		X				X								X	X	
ICSA	1.00	1414				X	X		X		X		X				X								X	X	
ICSAB	1.00	1419				X	X		X		X		X				X								X	X	
CCV	1.00	1423				X	X		X		X		X				X								X	X	
CCB	1.00	1428				X	X		X		X		X				X								X	X	
ZZZZZZ	1.00	1432																									
ZZZZZZ	1.00	1437																									
ZZZZZZ	1.00	1442																									
MECLD0A	1.00	1446				X	X		X		X		X				X								X	X	
CRI	1.00	1451				X			X		X		X				X								X	X	
ICSA	1.00	1455				X	X		X		X		X				X								X	X	
ICSAB	1.00	1500				X	X		X		X		X				X								X	X	
CCV	1.00	1505				X	X		X		X		X				X								X	X	
CCB	1.00	1509				X	X		X		X		X				X								X	X	

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ANALYSIS RUN LOG

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: **SDG No.:** MECLD0

Instrument ID Number: C5 Method: CV

Start date: 12/10/99 End date: 12/10/99

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	0912																X									
S0.2	1.00	0913																X									
S0.5	1.00	0915																X									
S1.0	1.00	0916																X									
S2.0	1.00	0917																X									
S5.0	1.00	0919																X									
S10.0	1.00	0920																X									
ICV	1.00	1203																X									
ICB	1.00	1204																X									
CRA	1.00	1205																X									
CCV	1.00	1207																X									
CCB	1.00	1208																X									
PBS	1.00	1209																X									
LCSS	10.00	1211																X									
MECLD0	1.00	1212																X									
MECLD0D	1.00	1213																X									
MECLD0S	1.00	1215																X									
MECLD1	1.00	1216																X									
MECLD2	1.00	1218																X									
MECLD3	1.00	1219																X									
MECLD4	1.00	1220																X									
CCV	1.00	1222																X									
CCB	1.00	1223																X									
MECLD5	1.00	1225																X									
CCV	1.00	1226																X									
CCB	1.00	1227																X									

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECLD0

Instrument ID Number: C1 Method: CA

Start date: 12/08/99 End date: 12/08/99

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1700																									X
S10.0	1.00	1700																									X
S50.0	1.00	1701																									X
S100.0	1.00	1702																									X
S200.0	1.00	1703																									X
S400.0	1.00	1704																									X
S100	1.00	1748																									X
ICV	1.00	1749																									X
ICB	1.00	1750																									X
CCV	1.00	1750																									X
CCB	1.00	1751																									X
LCS	1.00	1752																									X
LCSS	1.00	1753																									X
MECLD0	1.00	1754																									X
MECLD0D	1.00	1755																									X
MECLD0S	1.00	1756																									X
MECLD1	1.00	1756																									X
MECLD2	1.00	1757																									X
MECLD3	1.00	1758																									X
MECLD4	1.00	1759																									X
CCV	1.00	1800																									X
CCB	1.00	1801																									X
MECLD5	1.00	1801																									X
MECLD0A	1.00	1802																									X
CCV	1.00	1803																									X
CCB	1.00	1804																									X

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

Case No. 27676

1. Matrix (Enter in Column A): 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	2. Preservative (Enter in Column D): 1. HCl 2. HNO3 3. NaOH 4. H_2SO_4 5. $K_2CR_2O_7$ 6. Ice only 7. Other (specify in Column D) N. Not preserved	2. Region No.: 5	Sampling Co.: IEPA	4. Date Shipped: 11/30/99	Carrier: Fed Ex
		Sampler (Name): Bob Casper		Airbill Number: 3497986472	
		Sampler Signature: Bob Casper		5. Ship To: Sentinel Inc 2800 Bob [illegible] L3 [illegible]	
		3. Purpose*: Lead: SF, PRP, ST, FED; Early Action: CLEM, PA, REM, RI, SI, X ESI; Long-Term Action: FS, RD, RA, O&M, NPLD		ATTN: Beverly [illegible]	

6. Date Received -- Received by: 12/1/99 AB Jonsett

Laboratory Contract Number: 68-D6-0001 | Unit Price: 65.00

7. Transfer to: | Date Received

Received by

Contract Number | Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
~~MECLC9~~	~~5~~	~~L~~	~~G~~	~~G~~		~~X~~	~~X~~					~~S-143900~~	~~X101~~		~~EDAM5~~				
MECLD0	5	L	G	G		X	X					S 143901	X102	[illegible]	EDAM6	BC			
MECLD1	5	L	G	G		X	X					S 143902	X103	[illegible]	EDAM7	BC			
MECLD2	5	L	G	G		X	X					S 143903	X104	[illegible]	EDAM8	BC			
MECLD3	5	L	G	G		X	X					S 143904	X105	[illegible]	EDAM9	BC			
MECLD4	5	L	G	G		X	X					S 143905	X106	[illegible]	EDAN0	BC			
MECLD5	5	L	G	G		X	X					S 143906	X107	[illegible]	EDAN1	BC			
~~MECLD6~~	~~5~~	~~L~~	~~G~~	~~G~~		~~X~~	~~X~~					~~S 143907~~	~~X108~~		~~EDAN2~~				
~~MECLD7~~	~~5~~	~~L~~	~~G~~	~~G~~		~~X~~	~~X~~					~~S 143908~~	~~X109~~		~~EDAN3~~				
~~MECLD8~~	~~5~~	~~L~~	~~G~~	~~G~~		~~X~~	~~X~~					~~S 143909~~	~~X110~~		~~EDAN4~~				

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
Y	1 of 2	MECLC9		28806 [illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bob Casper	11/30/99 [illegible]				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Amanda B Jonsett	12/1/99 0905		

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A21-012-14 REV

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - CLASS Copy; Yellow - Lab Copy for Return to [illegible]

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

373273

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: MECLDØ CERCLIS No: ILD Ø43 912 922

Case No: 27626 Site Name Location: INSTA FOAM PROD.

Contractor or EPA Lab: SENTINEL Data User: IEPA

No. of Samples: 6 Date Sampled or Data Received: 12-22-99

Have Chain-of-Custody records been received? Yes ✓ No____
Have traffic reports or packing lists been received? Yes ✓ No____
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ____ No____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No____
No of samples claimed: 6 No. of samples received: 6

Received by: A.C. Harvey / ESAT Date: 12-22-99

Received by LSSS: A.C. Harvey / ESAT Date: 12-22-99

Review started: 1-4-00 Reviewer Signature: Stephanie Tobin

Total time spent on review: 8 hrs +0.5 hr Date review completed: 1-5-00

Copied by: A.C. Harvey / ESAT Date: 1-11-2000

Mailed to user by: A.C. Harvey / ESAT Date: 1-11-200

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Data: _____

DATE: January 12, 2000

TO: IEPA
1021 North Grand Avenue East
SpringfieLd, IL 62702

Attn: Bob Casper

SITE NAME: INSTA FOAM PRODUCTS

CASE NO	LAB	NO # OF SAMPLES	SDG	MATRIX
27626	SENTINEL	5	MECBE4	WATER

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:
Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.
Date:_____

Signature:_____

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
CHICAGO, IL 60605

Sent By: Allison Harvey, ESAT

RECEIVED
JAN 14 2000
IEPA-BOL-FSRS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 01/11/00

SUBJECT: **Review of Data**
Received for Review on December 22, 1999

FROM: **Stephen L. Ostrodka, Chief (SRT-4J)**
Superfund Technical Support Section /LF

TO: **Data User:** IEPA

We have reviewed the data for the following case:

Site name: Insta-Foam Products

Case number: 27626 **SDG NUMBER:** MECBE4

Number and Type of Samples: 5 water samples

Sample Numbers: MECBE4-MECBE8

Laboratory: Sentinel **Hrs. for Review:** 5 hrs +0.5

Following are our findings:

All data are usable with the qualifications described in the attached narrative.

L. Finkelberg
01/11/00

RECEIVED
JAN 14 2000
IEPA-BOL-FSRS

C: Cecilia Luckett
Region 5 TPO
Mail Code: SM-5J

Case Number: 27626
Site Name: Insta-Foam Products

SDG Number: MECBE4
Laboratory: Sentinel

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Five water samples, numbered MECBE4-MECBE8 were collected on 11/30/99. The lab received the samples on 12/01/99 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.0 analysis procedure.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Corrections on form III were made by the reviewer.

Case Number: 27626
Site Name: Insta-Foam Products

SDG Number: MECBE4
Laboratory: Sentinel

1. HOLDING TIME:

Total metal sample MECBE6 was not properly preserved in the field (pH=3.0) and the results greater than the IDL are estimated "J" due to low bias.

HOLDING TIME CRITERIA

Inorganic

	-- Holding Time --		------- pH -------	
	Primary	Expanded	Primary	Expanded
Metals	180	0	2.0	0.0
Mercury	28	0	2.0	0.0
Cyanide	14	0	12.0	0.0

2. CALIBRATIONS:

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

	--- Primary ---		-- Expanded ---	
	Low	High	Low	High
Cyanide	85.00	115.00	70.00	130.00
AA	90.00	110.00	75.00	125.00
ICP	90.00	110.00	75.00	125.00
Mercury	80.00	120.00	65.00	135.00

No problems were found for this qualification.

3. BLANKS: Sample MECBE8 is the field blank.

LABORATORY BLANKS CRITERIA

The following inorganic samples are associated with a negative initial, continuing or preparation blank concentration whose absolute value is greater than the instrument detection limit (IDL). The sample concentration is greater than the IDL and less than five times the absolute value of the blank concentration. Hits are qualified "J". Some non-detect concentration readings are sufficiently high that the negative blank reading may have caused the IDL to be elevated. These non-detects are flagged "UJ".

MECBE8
Silver, Sodium

Case Number: 27626
Site Name: Insta-Foam Products

SDG Number: MECBE4
Laboratory: Sentinel

DC-284: The following inorganic samples are associated with a initial, continuing, preparation or field blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are not flagged.

Arsenic
MECBE7

Chromium
MECBE4, MECBE8

Selenium
MECBE5, MECBE6, MECBE7

Potassium
MECBE8

Copper
MECBE4

Thallium
MECBE6, MECBE7

Cyanide
MECBE4, MECBE7

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

MECBE4, MECBE5, MECBE6, MECBE7, MECBE8

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper	125.0
Lower	75.0
Extreme lower	30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %)

indicating that sample results may be biased low. Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
MECBE4, MECBE5, MECBE6, MECBE7, MECBE8

5. LABORATORY AND FIELD DUPLICATE

No problems were found for this qualification.

6. ICP ANALYSIS

No problems were found for this qualification.

7. GFAA ANALYSIS

NA

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

CADRE Data Qualifier Sheet

Qualifiers	Data Qualifier Definitions
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The data are unusable. (The compound may or may not be present)

Analytical Results (Qualified Data)

Case #: 27626 SDG : MECBE4
Site INSTA FOAM PRODUCTS
Lab. : Sentinel
Reviewer : S. Tobin
Date : 01/04/00

Number of Soil Samples : 0
Number of Water Samples : 5

Sample Number :	MECBE4		MECBE5		MECBE6		MECBE7		MECBE8	
Sampling Location :	G101		G102		G103		G104		FB	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	11/30/1999		11/30/1999		11/30/1999		11/30/1999		11/30/1999	
Time Sampled :										
%Solids :	0.0		0.0		0.0		0.0		0.0	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
ANALYTE	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
ALUMINUM	34.9	U	29600		41100	J	591		34.9	U
ANTIMONY	2.1	UJ	3.4	J	5.0	J	2.1	UJ	2.1	UJ
ARSENIC	2.2	U	61.0		89.5	J	14.0	J	2.2	U
BARIUM	43.6		634		842	J	57.0		0.80	U
BERYLLIUM	0.10	U	2.4		3.3	J	0.10	U	0.10	U
CADMIUM	0.30	U	12.0		16.4	J	0.30	U	0.30	U
CALCIUM	110000		520000		669000	J	444000		2590	U
CHROMIUM	0.60	J	2370		3260	J	4.5		0.40	J
COBALT	0.60	U	54.8		80.2	J	4.5		0.60	U
COPPER	1.9	J	383		537	J	35.2		1.0	
IRON	19.6		114000		171000	J	9970		18.6	U
LEAD	1.3		4430		6500	J	16.7		1.1	U
MAGNESIUM	54600		263000		394000	J	41400		38.8	U
MANGANESE	60.2		1900		2520	J	630		2.4	U
MERCURY	0.10	U	1.8		0.85	J	0.10	U	0.10	U
NICKEL	2.5		167		238	J	36.3		1.3	U
POTASSIUM	5830		13800		14900	J	12600		40.8	J
SELENIUM	1.8	U	4.4	J	6.0	J	2.0	J	1.8	U
SILVER	0.40	U	5.0		8.2	J	0.40	U	0.40	UJ
SODIUM	50700		106000		100000	J	84100		215	J
THALLIUM	2.1	U	2.1	U	5.8	J	2.1	J	2.1	U
VANADIUM	0.50	U	35.6		49.2	J	1.4		0.50	U
ZINC	12.9	U	2400		3220	J	276		12.9	U
CYANIDE	4.1	J	24.7		15.8	J	2.2	J	2.0	

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 27626 SITE: Insta Foam Products MATRIX: Water WATER SAMPLE SPK: MECBE4

DATA SET: MECBE4 LAB: Sentinel CONC: low WATER SAMPLE DUP: MECBE4

LAB QC #: MECBE4 REVIEWED BY: Stephanie Tolson SOIL SAMPLE SPK: NA

DATE: 1-3-00 SOIL SAMPLE DUP: NA

FORM #		FORM 2	FORM 2	FORM 3	FORM 3	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 7	FORM 9	FORM 9	FORM 6	FORM 5	FIELD	FIELD	FIELD	FIELD	COMMENTS
ELEMENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICS %R	SOIL SPIKE %R	SOIL DUP RPD	ICS AQ	ICS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP %R	AQ SPIKE %R	BLANK MECBE8	DUP RPD	BLANK	DUP RPD	
ALUMINUM			OK			NA	OK	NA	NA	OK	NA	OK	NA	OK						
ANTIMONY															67.2					
ARSENIC		~~102.2~~		30																
BARIUM																				
BERYLLIUM 0.1				~~0.1~~																
CADMIUM																				
CALCIUM																				
CHROMIUM				0.5												.4				
COBALT		~~101.4~~																		
COPPER																1.0				
IRON																				
LEAD																				
MAGNESIUM		~~101.2~~		~~39.3~~																
MANGANESE																				
MERCURY				~~0.1~~																
NICKEL																				
POTASSIUM 5.2				~~40~~ 17.3												~~40.8~~				
SELENIUM				2.8																
SILVER				-.5																
SODIUM					-199.5											215				
THALLIUM		~~105.1~~		2.5																
TIN																				
VANADIUM																				
ZINC																				
CYANIDE			↓			↓	↓	↓	↓	↓	↓	↓	↓	↓		2.0				

MECBE6 pH = 30 per TM

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

SOW No.: ILM04.0

EPA Sample No.	Lab Sample ID.
MECBE4	27485S
MECBE4D	27485S2
MECBE4S	27485DS
MECBE5	27486S
MECBE6	27487S
MECBE7	27488S
MECBE8	27489S

DEC 2 2 1999

Were ICP interelement corrections applied? Yes/No YES
Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments: The cooler temperature measured 3°C.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Name: B.A. Kilgore

Date: 12/16/99 Title: QA Officer

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MECBE4

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

Matrix (soil/water): WATER Lab Sample ID: 27485S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.9	U		P
7440-36-0	Antimony	2.1	U	N	P
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	43.6	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	110000			P
7440-47-3	Chromium	0.60	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.9	B		P
7439-89-6	Iron	19.6	B		P
7439-92-1	Lead	1.3	B		P
7439-95-4	Magnesium	54600			P
7439-96-5	Manganese	60.2			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	2.5	B		P
7440-09-7	Potassium	5830			P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	50700			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	12.9	U		P
	Cyanide	4.1	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MECBE5

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

Matrix (soil/water): WATER Lab Sample ID: 27486S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	29600			P
7440-36-0	Antimony	3.4	B	N	P
7440-38-2	Arsenic	61.0			P
7440-39-3	Barium	634			P
7440-41-7	Beryllium	2.4	B		P
7440-43-9	Cadmium	12.0			P
7440-70-2	Calcium	520000			P
7440-47-3	Chromium	2370			P
7440-48-4	Cobalt	54.8			P
7440-50-8	Copper	383			P
7439-89-6	Iron	114000			P
7439-92-1	Lead	4430			P
7439-95-4	Magnesium	263000			P
7439-96-5	Manganese	1900			P
7439-97-6	Mercury	1.8			CV
7440-02-0	Nickel	167			P
7440-09-7	Potassium	13800			P
7782-49-2	Selenium	4.4	B		P
7440-22-4	Silver	5.0	B		P
7440-23-5	Sodium	106000			P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	35.6	B		P
7440-66-6	Zinc	2400			P
	Cyanide	24.7			CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MECBE6

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

Matrix (soil/water): WATER Lab Sample ID: 27487S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	41100			P
7440-36-0	Antimony	5.0	B	N	P
7440-38-2	Arsenic	89.5			P
7440-39-3	Barium	842			P
7440-41-7	Beryllium	3.3	B		P
7440-43-9	Cadmium	16.4			P
7440-70-2	Calcium	669000			P
7440-47-3	Chromium	3260			P
7440-48-4	Cobalt	80.2			P
7440-50-8	Copper	537			P
7439-89-6	Iron	171000			P
7439-92-1	Lead	6500			P
7439-95-4	Magnesium	394000			P
7439-96-5	Manganese	2520			P
7439-97-6	Mercury	0.85			CV
7440-02-0	Nickel	238			P
7440-09-7	Potassium	14900			P
7782-49-2	Selenium	6.0			P
7440-22-4	Silver	8.2	B		P
7440-23-5	Sodium	100000			P
7440-28-0	Thallium	5.8	B		P
7440-62-2	Vanadium	49.2	B		P
7440-66-6	Zinc	3220			P
	Cyanide	15.8			CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MECBE7

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

Matrix (soil/water): WATER Lab Sample ID: 27488S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	591			P
7440-36-0	Antimony	2.1	U	N	P
7440-38-2	Arsenic	14.0			P
7440-39-3	Barium	57.0	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	444000			P
7440-47-3	Chromium	4.5	B		P
7440-48-4	Cobalt	4.5	B		P
7440-50-8	Copper	35.2			P
7439-89-6	Iron	9970			P
7439-92-1	Lead	16.7			P
7439-95-4	Magnesium	41400			P
7439-96-5	Manganese	630			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	36.3	B		P
7440-09-7	Potassium	12600			P
7782-49-2	Selenium	2.0	B		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	84100			P
7440-28-0	Thallium	2.1	B		P
7440-62-2	Vanadium	1.4	B		P
7440-66-6	Zinc	276			P
	Cyanide	2.2	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

MECBE8

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

Matrix (soil/water): WATER Lab Sample ID: 27489S

Level (low/med): LOW Date Received: 12/01/99

% Solids: 0.0

Concentration Units (ug/L or mg/Kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	34.9	U		P
7440-36-0	Antimony	2.1	U	N	P
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	0.80	U		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.30	U		P
7440-70-2	Calcium	2590	U		P
7440-47-3	Chromium	0.40	B		P
7440-48-4	Cobalt	0.60	U		P
7440-50-8	Copper	1.0	B		P
7439-89-6	Iron	18.6	U		P
7439-92-1	Lead	1.1	U		P
7439-95-4	Magnesium	38.8	U		P
7439-96-5	Manganese	2.4	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	1.3	U		P
7440-09-7	Potassium	40.8	B		P
7782-49-2	Selenium	1.8	U		P
7440-22-4	Silver	0.40	U		P
7440-23-5	Sodium	215	B		P
7440-28-0	Thallium	2.1	U		P
7440-62-2	Vanadium	0.50	U		P
7440-66-6	Zinc	12.9	U		P
	Cyanide	2.0	B		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

3

BLANKS

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	34.9	U	34.9	U	34.9	U	34.9	U	34.900	U	P
Antimony	2.1	U	2.1	U	2.1	U	2.1	U	2.100	U	P
Arsenic	2.2	U	3.0	B	2.2	U	2.2	U	2.200	U	P
Barium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Beryllium	0.1	~~B~~ U	0.1	U	0.1	U	0.1	U	0.100	U	P
Cadmium	0.3	U	0.3	U	0.3	U	0.3	U	0.300	U	P
Calcium	2592.0	U	2592.0	U	2592.0	U	2592.0	U	2592.000	U	P
Chromium	0.4	B	0.3	U	0.5	B	0.3	U	0.300	U	P
Cobalt	0.6	U	0.6	U	0.6	U	0.6	U	0.600	U	P
Copper	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Iron	18.6	U	18.6	U	18.6	U	18.6	U	18.600	U	P
Lead	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Magnesium	38.8	U	39.3	B	38.8	U	38.8	U	38.800	U	P
Manganese	2.4	U	2.4	U	2.4	U	2.4	U	2.400	U	P
Mercury	0.1	U	0.1	U	0.1	B			0.100	U	CV
Nickel	1.3	U	1.3	U	1.3	U	1.3	U	1.300	U	P
Potassium	17.3	B	-4.0	B	3.4	B	3.2	U	3.200	U	P
Selenium	1.8	U	2.4	B	2.8	B	1.8	U	1.800	U	P
Silver	0.4	U	-0.5	B	0.4	~~B~~ U	0.4	U	0.400	U	P
Sodium	155.1	U	155.1	U	-194.0	B	-188.3	B	-199.500	B	P
Thallium	2.5	B	2.1	U	2.1	U	2.1	U	2.100	U	P
Vanadium	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Zinc	12.9	U	12.9	U	12.9	U	12.9	U	12.900	U	P
Cyanide	1.0	U	1.0	U	1.0	U			1.000	U	CA

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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MECBE4S

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

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

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2187.5000		34.9000	U	2000.00	109.4		P
Antimony	75-125	335.8000		2.1000	U	500.00	67.2	N	P
Arsenic	75-125	40.3800		2.2000	U	40.00	101.0		P
Barium	75-125	2264.2000		43.6000	B	2000.00	111.0		P
Beryllium	75-125	54.2000		0.1000	U	50.00	108.4		P
Cadmium	75-125	53.5000		0.3000	U	50.00	107.0		P
Calcium									NR
Chromium	75-125	216.6000		0.6000	B	200.00	108.0		P
Cobalt	75-125	537.6000		0.6000	U	500.00	107.5		P
Copper	75-125	274.2000		1.9000	B	250.00	108.9		P
Iron	75-125	1101.0000		19.6000	B	1000.00	108.1		P
Lead	75-125	23.1600		1.3200	B	20.00	109.2		P
Magnesium									NR
Manganese	75-125	609.0000		60.2000		500.00	109.8		P
Mercury	75-125	1.1800		0.1000	U	1.00	118.0		CV
Nickel	75-125	535.8000		2.5000	B	500.00	106.7		P
Potassium									NR
Selenium	75-125	10.2200		1.8000	U	10.00	102.2		P
Silver	75-125	53.5000		0.4000	U	50.00	107.0		P
Sodium									NR
Thallium	75-125	45.6200		2.1000	U	50.00	91.2		P
Vanadium	75-125	546.2000		0.5000	U	500.00	109.2		P
Zinc	75-125	541.4000		12.9000	U	500.00	108.3		P
Cyanide	75-125	91.5856		4.0615	B	100.00	87.5		CA

Comments:

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MECBE4A

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

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

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony		122.80		2.10	U	120.0	102.3		P
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper									NR
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6

DUPLICATES

EPA SAMPLE NO.

MECBE4D

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

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

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		34.9000	U	34.9000	U			P
Antimony		2.1000	U	2.1000	U			P
Arsenic		2.2000	U	3.2800	B	200.0		P
Barium		43.6000	B	42.3000	B	3.0		P
Beryllium		0.1000	U	0.1000	U			P
Cadmium		0.3000	U	0.3000	U			P
Calcium		110353.3000		107564.2000		2.6		P
Chromium		0.6000	B	0.4000	B	40.0		P
Cobalt		0.6000	U	0.6000	U			P
Copper		1.9000	B	2.6000	B	31.1		P
Iron		19.6000	B	58.6000	B	99.7		P
Lead		1.3200	B	1.5000	B	12.8		P
Magnesium		54617.3000		55189.5000		1.0		P
Manganese	15.0	60.2000		58.7000		2.5		P
Mercury		0.1000	U	0.1000	U			CV
Nickel		2.5000	B	1.8000	B	32.6		P
Potassium	5000.0	5825.4000		5698.4000		2.2		P
Selenium		1.8000	U	1.9900	B	200.0		P
Silver		0.4000	U	0.4000	U			P
Sodium		50681.2000		48917.0000		3.5		P
Thallium		2.1000	U	2.1000	U			P
Vanadium		0.5000	U	0.5000	U			P
Zinc		12.9000	U	12.9000	U			P
Cyanide		4.0615	B	2.6950	B	40.4		CA

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10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

ICP ID Number: P4 Date: 10/15/99

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.20		200	34.9	P
Antimony	206.80		60	2.1	P
Arsenic	189.00		10	2.2	P
Barium	493.40		200	0.8	P
Beryllium	313.00		5	0.1	P
Cadmium	226.50		5	0.3	P
Calcium	317.90		5000	2592.0	P
Chromium	267.70		10	0.3	P
Cobalt	228.60		50	0.6	P
Copper	324.70		25	0.5	P
Iron	271.40		100	18.6	P
Lead	220.30		3	1.1	P
Magnesium	279.00		5000	38.8	P
Manganese	257.60		15	2.4	P
Mercury			0.2		NR
Nickel	231.60		40	1.3	P
Potassium	766.40		5000	3.2	P
Selenium	196.00		5	1.8	P
Silver	328.00		10	0.4	P
Sodium	330.20		5000	155.1	P
Thallium	190.80		10	2.1	P
Vanadium	292.40		50	0.5	P
Zinc	206.20		20	12.9	P
Cyanide			10		NR

Comments:
P4: THERMO JARRELL ASH

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

ICP ID Number: Date: 10/15/99

Flame AA ID Number: C5

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.60		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide			10		NR

Comments:
C5: CETAC M6000

U.S. EPA - CLP

10
INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: SENTINEL INC. Contract: 68-D6-0001

Lab Code: SENTIN Case No.: 27626 SAS No.: SDG No.: MECBE4

ICP ID Number: Date: 10/15/99

Flame AA ID Number: C1

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR
Cyanide	578.00		10	1.0	CA

Comments:
C1: LACHAT

EPA United States Environmental Protection Agency
Contract Laboratory Program

Inorganic Traffic Report & Chain of Custody Record
(For Inorganic CLP Analyis)

SAS No. (if applicable):
Case No.: 2 [illegible]

1. Matrix (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Field QC
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (specify in Column A)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaOH
   4. H_2SO_4
   5. $K_2CR_2O_7$
   6. Ice only
   7. Other (specify in Column D)
   N. Not preserved

2. Region No.: [illegible]
Sampling Co.: [illegible]
4. Date Shipped: [illegible]
Carrier: [illegible]
6. Date Received -- Received by: 12/1/99 AB Gorsett
Sampler (Name): [illegible]
Airbill Number: [illegible]
Laboratory Contract Number: 68-D0-0001
Unit Price: 65.00
Sampler Signature: Bob Cooper
5. Ship To: [illegible]
7. Transfer to:
Date Received
Received by
Contract Number
Price
ATTN: [illegible]

3. Purpose*
Lead: SF, PRP, ST, FED
Early Action: CLEM, PA, REM, RI, SI, ESI
Long-Term Action: FS, RD, RA, O&M, NPLD

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E – RAS Analysis: Diss. Metals	Total Metals	Cyanide	Low only: NO_2/NO_3	Fluoride	High only: pH	Conduct.	F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/ Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases: Solids	Water-Miscible Liq.	Water-Immis. Liq.
MECB4						X						S 016847-49	GW1		[illegible]	BC			
MECB4							X					S 016850-52	GW1		[illegible]	BC			
MECB5						X						S 016853	GW2		[illegible]	BC			
MECB5							X					S 016854	GW2		[illegible]	BC			
MECB6						X						S 016855	GW3		[illegible]	BC			
MECB6							X					S 016856	GW3		[illegible]	BC			
MECB7						X						S 016857	GW4		[illegible]	BC			
MECB7							X					S 016858	GW4		[illegible]	BC			
MECB8						X						S 016859	FB		[illegible]	BC			
MECB8							X					S 016860	FB		[illegible]	BC			

Shipment for Case Complete? (Y/N): (Y)
Page 1 of 1
Sample(s) to be Used for Laboratory QC: MECB4
Additional Sampler Signatures:
Chain of Custody Seal Number(s): 181999 [illegible]

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Bob Cooper					
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		Amanda B Gorsett	12/1/99 0905		

A21-012-6 REV. 3/93

DISTRIBUTION: Green - Region Copy; White - Lab Copy for Return to Region; Pink - SMO Copy; Yellow - Lab Copy for Return to

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS
*SEE REVERSE FOR PURPOSE CODE DEFINITIO

362730

Inorganic Traffic Report/Chain of Custody Form Instructions

This form replaces both the individual Traffic Report and EPA Chain of Custody Record.

Water Samples	Required Volume	Container Type
Metals Analysis (Low Level)	1 Liter	1 X 1-Liter Polyethylene Bottle OR 2 X 500-ml Polyethylene Bottle
Metals Analysis (Medium Level*)	16 oz.	1 X 16-oz Wide-Mouth Glass Jar
Cyanide Analysis (Low Level)	1 Liter	1 X 1-Liter Polyethylene Bottle OR 2 X 500-ml Polyethylene Bottle
Cyanide Analysis (Medium Level*)	16 oz.	1 X 16-oz Wide-Mouth Glass Jar

Soil/Sediment Samples	Required Volume	Container Type
Metals and Cyanide CLP Analysis (Low or Medium Level*)	6 oz.	1 X 8-oz Wide-Mouth Glass Jar OR 2 X 4-oz. Wide-Mouth Glass Jars

HIGH CONCENTRATION SAMPLE COLLECTION REQUIREMENTS

Liquid or Solid Samples	Required Volume	Container Type
Metals and Cyanide* Analysis	6 oz.	1 X 8-oz Wide-Mouth Glass Jar

*All Medium and High Level Samples Must be Sealed in Metal Can for Shipment

1. Inorganic Sample Collection Requirements

- Please indicate which sample(s) are to be used for laboratory QC (Matrix Spike/Duplicate).
- Aqueous samples require one double-volume sample per twenty for laboratory Matrix Spike/Duplicate.
- Preserve low level water samples:

Total metals	Preserve with HNO_3 to pH ≤ 2.
Dissolved metals	Preserve with HNO_3 to pH ≤ 2 after filtering through a 0.45 µm filter.
Cyanide	Preserve with 10 N NaOH to pH ≥12.

- Oily samples must be analyzed under the Special Analytical Services (SAS) program.
- Ship medium and high concentration samples in metal cans.

2. Cooler and Sample Documentation

- Complete all sections of the Traffic Report/Chain of Custody Form - Press firmly with a ball point pen to ensure that carbon copies are legible. Check the information and correct any errors.
- Please remember to complete the Chain of Custody information on the form.
- Seal the two sets of laboratory Traffic Report/Chain of Custody Form copies in a plastic bag. Include a return address for the cooler. Tape bag under cooler lid.
- Seal each container in a plastic bag.
- Pack medium and high concentration samples in metal cans.
- Separate and surround cooler contents with vermiculite or equivalent packaging.
- Seal the cooler, overlapping the lid and body with custody seals.
- Mail SMO the pink copy of the Traffic Report/Chain of Custody Form within 5 days.

3. Sample Shipment and Reporting

- All relevent Department of Transportation regulations must be followed when shipping samples.
- PHONE IN ALL SHIPMENTS IMMEDIATELY TO SMO (or to RSCC, if instructed)

  Required information:

  - Case (and/or SAS) Number
  - Date shipped
  - Number of samples by concentration and matrix
  - Carrier and airbill number
  - Next planned shipment

  Leave your name and a number where you can be reached
- Information for SATURDAY DELIVERIES must be phoned in by 3:00 PM (Eastern) the preceding FRIDAY.
- Report any delays or changes of scope (i.e., changes in number of samples to be collected, matrix changes, etc.)
- CALL IF YOU HAVE ANY QUESTIONS

  Sample Management Office
  300 North Lee Street
  Suite 200
  Alexandria, VA 22314
  Phone: (703) 519-1200
  FAX: (703) 683-0378

Purpose Codes

Lead		Early Action				Long-Term Action	
SF	= Superfund	CLEM	= Classical Emergency	S	= Site Inspection	FS	= Feasibility Study
PRP	= Commercial Potentially Responsible Party	PA	= Early Action Preliminary Assessment	ESI	= Expanded Site Inspection	RD	= Remedial Design
ST	= State	REM	= Removal	RI	= Remedial Investigation	RA	= Remedial Action
FED	= Federal Facility					O&M	= Operation & Maintenance
						NPLD	= National Priorities List Deletion

• U.S.G.P.O. 1993-358-861

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No: MECBE4 CERCLIS No: ILD 043 912 922

Case No: 27626 Site Name Location: INSTA FOAM PROD.

Contractor or EPA Lab: SENTINEL Data User: IEPA

No. of Samples: 5 Date Sampled or Data Received: 12-22-99

Have Chain-of-Custody records been received? Yes ✓ No ____
Have traffic reports or packing lists been received? Yes ✓ No ____
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ✓ No ____
No of samples claimed: 5 No. of samples received: 5

Received by: A. C. Harvey / ESAT Date: 12-22-99

Received by LSSS: A. C. Harvey / ESAT Date: 12-22-99

Review started: 1-3-00 Reviewer Signature: Stephanie Tobin

Total time spent on review: 5 hrs Date review completed: 1-4-00

Copied by: A. C. Harvey / ESAT 0.5 hr Date: 1-12-2000

Mailed to user by: A. C. Harvey / ESAT Date: 1-12-2000

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] ✓ if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Data: ____