EPA Region 5 Records Ctr.
200502

LPC# 0430305282--DuPage County
Downers Grove/Ellsworth Industrial Park
ILN 000508246
SF/HRS

Volume 5 of 5

# CERCLA

## Analytical Results

Illinois Environmental
Protection Agency

# APPENDIX – G
# CONTINUED

X-13
X-51
EIPX-5

DATE: July 23, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

X-52A
X-52B
X-52D
X-53A
X-53B

Attn: Bob Casper

SITE NAME: Ellsworth Industrial Park

| CASE NO. | LAB | NO. OF SAMPLES | SDG | MATRIX |
|---|---|---|---|---|
| 30616 | Envirosystems | 8 | E0155 | 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:_____

RECEIVED
JUL 26 2002
IEPA-BCL-FSRS

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

JUL 2 3 2002



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
## REGION V

DATE: _____

SUBJECT: Review of Data
Received for Review on July 2, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Elsworth Industrial Park (IL)

CASE NUMBER: 30616 SDG NUMBER: E0155

Number and Type of Samples: 8 Soils (VOAs)

Sample Numbers: E0155 - E0160, E0165, E0166

Laboratory: Envirosystems Hrs. for Review: _____

Following are our findings:

RECEIVED
JUL 2 6 2002
IEPA-BCL-FSRS

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Case Number : 30616 SDG Number: E0155
Site Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

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

*Eight (8) soil* samples, numbered *E0155* through *E0160, E0165* and *E0166,* were collected *June 19 - 21, 2002*. The lab received the samples *June 20 - 22, 2002* in good condition. All samples were analyzed for only the volatile list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Reviewed By: Allison Harvey/IITRI-ESAT
Date: July 22, 2002

Case Number : 30616 SDG Number: E0155
Site Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

## 1. HOLDING TIME

No problems found for this qualification.

## 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

## 3. CALIBRATION

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".

Dichlorodifluoromethane, Chloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Acetone
E0155, E0156, E0156MS, E0156MSD, E0157, E0158, E0165, E0166, VBLKFR, VBLKFX, VBLKFY, VHBLKFY

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has a relative response factor (RRF50) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

1,2-Dibromo-3-chloropropane
E0155, E0156, E0156MS, E0156MSD, E0157, E0158, E0165, E0166, VBLKFR, VBLKFX, VBLKFY, VHBLKFY

The following volatile samples are associated with a continuing calibration relative response factor (RRF50) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

1,2-Dibromo-3-chloropropane
E0155, E0156, E0156MS, E0156MSD, E0157, E0158, E0165, E0166, VBLKFR, VBLKFX, VBLKFY, VHBLKFY

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
E0158DL, E0159, E0160, E0160DL, E0160MS, E0160MSD, E0166DL, VBLKB2

Vinyl Chloride
E0157, E0166, VBLKFY

Reviewed By: Allison Harvey/IITRI-ESAT
Date: July 22, 2002

Case Number : 30616 SDG Number: E0155
Site Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

Bromomethane, Chloroethane
E0155, E0156, E0156MS, E0156MSD, E0157, E0158, E0166, VBLKFR, VBLKFX,

Trichlorofluoromethane, Carbon Disulfide
E0157, E0166, VBLKFX

1,1,2-Trichloro-1,2,2-trifluoroethane, 2-Butanone, 4-Methyl-2-Pentanone, 2-Hexanone
E0155, E0156, E0156MS, E0156MSD, E0158, VBLKFR

Acetone
E0155, E0156, E0156MS, E0156MSD, E0158, E0165, VBLKFR, VBLKFY, VHBLKFY

tert-Butyl Methyl Ether
E0165, VBLKFY, VHBLKFY

## 4. BLANKS

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are biased high and qualified "U" or "UJ" and non-detects are not flagged.

Acetone
E0155

Methylene Chloride
E0165

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.

Trichloroethene
E0157

The following volatile 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" or "UJ" and non-detects are not flagged.

Acetone
E0156, E0156MS, E0156MSD, E0157, E0158, E0165

Case Number : 30616 SDG Number: E0155
Site Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

Methylene Chloride
E0155, E0156, E0156MS, E0156MSD, E0157, E0158, E0166, E0166DL, VHBLKFY

## 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have one or more system monitoring compound recovery values below the lower limit of the criteria window. Hits are biased low and qualified "J" and non-detects are qualified "UJ".

E0166

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following volatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. The presence of Trichloroethene in the unspiked sample E0160 is qualified as estimated, "J" and a non-detect is not flagged.

E0160MSD
Trichloroethene

## 7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as either field blanks or trip blanks. Sample *E0159* is a field duplicate of Sample *E0158*. Results are summarized in the following table:

| Analytes | E0158 | E0158DL | E0159 |
|---|---|---|---|
| | µg/L | µg/L | µg/L |
| | Low | Medium | Medium |
| Vinyl Chloride | 340 | | |
| 1,1-Dichloroethene | 26 | | |
| trans-1,2-Dichloroethene | 910 | | |
| cis-1,2-Dichloroethene | 15000 | 59000 | 54000 |
| 1,2-Dichloroethane | 21 | | |
| Trichloroethene | 32000 | 220000 | 210000 |
| Toluene | 660 | | |
| 1,1,2-Trichloroethane | 18 | | |

Reviewed By: Allison Harvey/IITRI-ESAT
Date: July 22, 2002

Case Number : 30616 SDG Number: E0155
Site Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

| | | | |
|---|---|---|---|
| Tetrachloroethene | 1100 | 1300 J | 1300 J |
| Ethylbenzene | 140 | | |
| Xylene (Total) | 152 | | |
| Isopropylbenzene | 12 J | | |
| Volatile TICs | 7 | | |

Results are not qualified based upon the results of the field blank or field duplicates.

## 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".

E0156MSD, E0158

Dichlorodifluoromethane, Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,2-Dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, Acetone, Carbon Disulfide, Methyl Acetate, Methylene Chloride, trans-1,2-Dichloroethene, Methyl tert-Butyl 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, Xylene (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

E0166

4-Methyl-2-Pentanone, Toluene, Tetrachloroethene, 2-Hexanone, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, Xylene (total), Styrene, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene

## 9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA compounds were properly identified.

Reviewed By: Allison Harvey/IITRI-ESAT
Date: July 22, 2002

Case Number : 30616 SDG Number: E0155
Site Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

## 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

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

E0157
Tetrachloroethene, Xylenes (total)

E0158DL, E0159, E0160
Tetrachloroethene

E0160DL, E0160MS, E0160MSD
cis-1,2-Dichloroethene

E0165
Trichloroethene, Tetrachloroethene

E0166
cis-1,2-Dichloroethene, 1,2-Dichloroethane, 1,1,2-Trichloroethane

E0166DL
1,1-Dichloroethene, Trichloroethene

VBLKB2
Methylene Chloride

VBLKFR
Acetone, Methylene Chloride, 1,2,4-Trichlorobenzene

VBLKFX
Acetone, Methylene Chloride, Trichloroethene

VBLKFY
Acetone, Methylene Chloride

## 11. SYSTEM PERFORMANCE

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

## 12. ADDITIONAL INFORMATION

The following volatile samples had one or more target compounds whose concentration exceeded

Case Number : 30616 SDG Number: E0155
Site Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

the instrument's calibration range. The results from the diluted analyses should be considered the compound's final concentration.

E0158
Vinyl Chloride, trans-1,2-Dichloroethene, cos-1,2-Dichloroethene, Trichloroethene, Toluene, Tetrachloroethene

E0160
Trichloroethene

E0166
1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1,1-Trichloroethane

Sample E0158 was originally analyzed as a low level soil sample. Sample E0158DL was analyzed as a medium level soil sample. Samples E0159, E0159, E0160, E0160DL, E0166 and E0166DL were all analyzed as medium level soil samples.

Page 2 of Form 6A - Volatile Organics Initial Calibration Data for Calibration Date: 06/07/02 was missing from the data package. The %RSDs for the listed compounds had to be manually regenerated as part of the review process.

Reviewed By: Allison Harvey/IITRI-ESAT
Date: July 22, 2002

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 anlayte 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) |

TICS

Volatile Analysis Data - E0158
Tentatively Identified Compounds

CASE NO: 30616 LABORATORY: ENVIROSYSTEMS, INC.
SDG NO: E0155

| CAS NUMBER | COMPOUND NAME | RT | ESTIMATED CONCENTRATION | Q |
|---|---|---|---|---|
| | UNKNOWN | 12.86 | 27.000 | J |
| | UNKNOWN | 22.62 | 9.000 | J |
| 103-65-1 | BENZENE, PROPYL- | 23.23 | 38.000 | NJ |
| | UNKNOWN ALKANE | 23.46 | 150.000 | J |
| | UNKNOWN | 24.17 | 84.000 | J |
| 95-63-6 | BENZENE, 1,2,4-TRIMETHYL- | 24.59 | 220.000 | NJ |
| 99-87-6 | BENZENE, 1-METHYL-4-(1-METHYLETHYL)- | 25.19 | 28.000 | NJ |
| 526-73-8 | BENZENE, 1,2,3-TRIMETHYL- | 25.64 | 110.000 | NJ |
| | UNKNOWN ALKANE | 26.39 | 99.000 | J |
| | UNKNOWN ALKANE | 29.39 | 50.000 | J |
| | UNKNOWN ALKANE | 32.02 | 57.000 | J |

**Analytical Results (Qualified Data)**

Case #: 30616
SDG : E0155
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

Number of Soil Samples : 8
Number of Water Samples : 0

| Sample Number : | E0155 | | E0156 | | E0156MS | | E0156MSD | | E0157 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X13 | | X51 | | X51 | | X51 | | EIPX5 | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 06/19/2002 | | 06/20/2002 | | 06/20/2002 | | 06/20/2002 | | 06/20/2002 | |
| Time Sampled : | 13:45 | | 08:00 | | 08:00 | | 08:00 | | 12:45 | |
| %Moisture : | 19 | | 32 | | 32 | | 32 | | 34 | |
| 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** | 11 | UJ | 12 | UJ | 12 | UJ | 12 | UJ | 13 | UJ |
| Chloromethane | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **Vinyl Chloride** | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | UJ |
| Bromomethane | 11 | UJ | 12 | UJ | 12 | UJ | 12 | UJ | 13 | UJ |
| **Chloroethane** | 11 | UJ | 12 | UJ | 12 | UJ | 12 | UJ | 13 | UJ |
| Trichlorofluoromethane | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **1,1-Dichloroethene** | 11 | U | 12 | U | 49 | | 46 | J | 13 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | UJ | 12 | UJ | 12 | UJ | 12 | UJ | 13 | UJ |
| **Acetone** | 15 | UJ | 12 | UJ | 12 | UJ | 12 | UJ | 13 | UJ |
| Carbon Disulfide | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **Methyl Acetate** | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| Methylene Chloride | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **trans-1,2-Dichloroethene** | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| Methyl tert-Butyl Ether | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **1,1-Dichloroethane** | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| cis-1,2-Dichloroethene | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **2-Butanone** | 11 | UJ | 12 | UJ | 12 | UJ | 12 | UJ | 13 | U |
| Chloroform | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **1,1,1-Trichloroethane** | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| Cyclohexane | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **Carbon Tetrachloride** | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| Benzene | 11 | U | 12 | U | 52 | | 51 | J | 13 | U |
| **1,2-Dichloroethane** | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| Trichloroethene | 11 | U | 12 | U | 57 | | 57 | J | 4 | J |
| **Methylcyclohexane** | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| 1,2-Dichloropropane | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **Bromodichloromethane** | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| cis-1,3-Dichloropropene | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **4-Methyl-2-pentanone** | 11 | UJ | 12 | UJ | 12 | UJ | 12 | UJ | 13 | U |
| Toluene | 11 | U | 12 | U | 60 | | 57 | J | 13 | U |
| **trans-1,3-Dichloropropene** | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| 1,1,2-Trichloroethane | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **Tetrachloroethene** | 11 | U | 12 | U | 12 | U | 12 | UJ | 1 | J |

**Analytical Results (Qualified Data)**

Case #: 30616 SDG : E0155
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E0155 | | E0156 | | E0156MS | | E0156MSD | | E0157 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X13 | | X51 | | X51 | | X51 | | EIPX5 | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 06/19/2002 | | 06/20/2002 | | 06/20/2002 | | 06/20/2002 | | 06/20/2002 | |
| Time Sampled : | 13:45 | | 08:00 | | 08:00 | | 08:00 | | 12:45 | |
| %Moisture : | 19 | | 32 | | 32 | | 32 | | 34 | |
| 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** | **11** | **UJ** | **12** | **UJ** | **12** | **UJ** | **12** | **UJ** | **13** | **U** |
| Dibromochloromethane | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **1,2-Dibromoethane** | **11** | **U** | **12** | **U** | **12** | **U** | **12** | **UJ** | **13** | **U** |
| Chlorobenzene | 11 | U | 12 | U | 60 | | 57 | J | 13 | U |
| **Ethylbenzene** | **11** | **U** | **12** | **U** | **12** | **U** | **12** | **UJ** | **13** | **U** |
| Xylenes (total) | 11 | U | 12 | U | 12 | U | 12 | UJ | 1 | J |
| **Styrene** | **11** | **U** | **12** | **U** | **12** | **U** | **12** | **UJ** | **13** | **U** |
| Bromoform | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **Isopropylbenzene** | **11** | **U** | **12** | **U** | **12** | **U** | **12** | **UJ** | **13** | **U** |
| 1,1,2,2-Tetrachloroethane | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **1,3-Dichlorobenzene** | **11** | **U** | **12** | **U** | **12** | **U** | **12** | **UJ** | **13** | **U** |
| 1,4-Dichlorobenzene | 11 | U | 12 | U | 12 | U | 12 | UJ | 13 | U |
| **1,2-Dichlorobenzene** | **11** | **U** | **12** | **U** | **12** | **U** | **12** | **UJ** | **13** | **U** |
| 1,2-Dibromo-3-chloropropane | 11 | R | 12 | R | 12 | R | 12 | R | 13 | R |
| **1,2,4-Trichlorobenzene** | **11** | **U** | **12** | **U** | **12** | **U** | **12** | **UJ** | **13** | **U** |

**Analytical Results (Qualified Data)**

Case #: 30616 SDG : E0155
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E0158 | | E0158DL | | E0159 | | E0160 | | E0160DL | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X52A | | X52A | | X52D | | X52B | | X52B | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 06/20/2002 | | 06/20/2002 | | 06/20/2002 | | 06/20/2002 | | 06/20/2002 | |
| Time Sampled : | 15:45 | | 15:45 | | 15:45 | | 16:15 | | 16:15 | |
| %Moisture : | 31 | | 31 | | 30 | | 32 | | 32 | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 10.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 12 | UJ | 12000 | UJ | 11000 | UJ | 11000 | UJ | 45000 | UJ |
| Chloromethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Vinyl Chloride | 340 | J | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Bromomethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Chloroethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Trichlorofluoromethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,1-Dichloroethene | 26 | J | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Acetone | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Carbon Disulfide | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Methyl Acetate | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Methylene Chloride | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| trans-1,2-Dichloroethene | 910 | J | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Methyl tert-Butyl Ether | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,1-Dichloroethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| cis-1,2-Dichloroethene | 15000 | J | 59000 | | 54000 | | 37000 | | 38000 | J |
| 2-Butanone | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Chloroform | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,1,1-Trichloroethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Cyclohexane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Carbon Tetrachloride | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Benzene | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,2-Dichloroethane | 21 | J | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Trichloroethene | 32000 | J | 220000 | | 210000 | | 500000 | J | 500000 | |
| Methylcyclohexane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,2-Dichloropropane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Bromodichloromethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| cis-1,3-Dichloropropene | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 4-Methyl-2-pentanone | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Toluene | 660 | J | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| trans-1,3-Dichloropropene | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,1,2-Trichloroethane | 18 | J | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Tetrachloroethene | 1100 | J | 1300 | J | 1300 | J | 2300 | J | 45000 | U |

**Analytical Results (Qualified Data)**

Case #: 30616 SDG : E0155
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E0158 | | E0158DL | | E0159 | | E0160 | | E0160DL | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X52A | | X52A | | X52D | | X52B | | X52B | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 06/20/2002 | | 06/20/2002 | | 06/20/2002 | | 06/20/2002 | | 06/20/2002 | |
| Time Sampled : | 15:45 | | 15:45 | | 15:45 | | 16:15 | | 16:15 | |
| %Moisture : | 31 | | 31 | | 30 | | 32 | | 32 | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 10.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| 2-Hexanone | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Dibromochloromethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,2-Dibromoethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Chlorobenzene | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Ethylbenzene | 140 | J | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Xylenes (total) | 152 | J | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Styrene | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Bromoform | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| Isopropylbenzene | 12 | J | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,1,2,2-Tetrachloroethane | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,3-Dichlorobenzene | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,4-Dichlorobenzene | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,2-Dichlorobenzene | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,2-Dibromo-3-chloropropane | 12 | R | 12000 | U | 11000 | U | 11000 | U | 45000 | U |
| 1,2,4-Trichlorobenzene | 12 | UJ | 12000 | U | 11000 | U | 11000 | U | 45000 | U |

**Analytical Results (Qualified Data)**

Case #: 30616 SDG : E0155
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E0160MS | | E0160MSD | | E0165 | | E0166 | | E0166DL | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X52B | | X52B | | X53A | | X53B | | X53B | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 06/20/2002 | | 06/20/2002 | | 06/21/2002 | | 06/21/2002 | | 06/21/2002 | |
| Time Sampled : | 16:15 | | 16:15 | | 09:45 | | 10:00 | | 10:00 | |
| %Moisture : | 32 | | 32 | | 17 | | 16 | | 16 | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 10.0 | | 10.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 45000 | UJ | 45000 | UJ | 10 | UJ | 10 | UJ | 920 | UJ |
| Chloromethane | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Vinyl Chloride | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Bromomethane | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Chloroethane | 45000 | U | 45000 | U | 10 | UJ | 10 | UJ | 920 | U |
| Trichlorofluoromethane | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| 1,1-Dichloroethene | 230000 | | 240000 | | 10 | U | 480 | J | 400 | J |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 45000 | U | 45000 | U | 10 | UJ | 500 | J | 2800 | |
| Acetone | 45000 | U | 45000 | U | 10 | UJ | 10 | UJ | 920 | U |
| Carbon Disulfide | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Methyl Acetate | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Methylene Chloride | 45000 | U | 45000 | U | 16 | U | 10 | UJ | 920 | U |
| trans-1,2-Dichloroethene | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Methyl tert-Butyl Ether | 45000 | U | 45000 | U | 10 | UJ | 10 | UJ | 920 | U |
| 1,1-Dichloroethane | 45000 | U | 45000 | U | 10 | U | 53 | J | 920 | U |
| cis-1,2-Dichloroethene | 39000 | J | 42000 | J | 10 | U | 9 | J | 920 | U |
| 2-Butanone | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Chloroform | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| 1,1,1-Trichloroethane | 45000 | U | 45000 | U | 13 | | 4500 | J | 19000 | |
| Cyclohexane | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Carbon Tetrachloride | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Benzene | 230000 | | 250000 | | 10 | U | 10 | UJ | 920 | U |
| 1,2-Dichloroethane | 45000 | U | 45000 | U | 10 | U | 1 | J | 920 | U |
| Trichloroethene | 790000 | | 850000 | | 1 | J | 35 | J | 140 | J |
| Methylcyclohexane | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| 1,2-Dichloropropane | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Bromodichloromethane | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| cis-1,3-Dichloropropene | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| 4-Methyl-2-pentanone | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| Toluene | 230000 | | 250000 | | 10 | U | 10 | UJ | 920 | U |
| trans-1,3-Dichloropropene | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| 1,1,2-Trichloroethane | 45000 | U | 45000 | U | 10 | U | 3 | J | 920 | U |
| Tetrachloroethene | 45000 | U | 45000 | U | 1 | J | 10 | UJ | 920 | U |

**Analytical Results (Qualified Data)**

Case #: 30616 SDG : E0155
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E0160MS | | E0160MSD | | E0165 | | E0166 | | E0166DL | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X52B | | X52B | | X53A | | X53B | | X53B | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 06/20/2002 | | 06/20/2002 | | 06/21/2002 | | 06/21/2002 | | 06/21/2002 | |
| Time Sampled : | 16:15 | | 16:15 | | 09:45 | | 10:00 | | 10:00 | |
| %Moisture : | 32 | | 32 | | 17 | | 16 | | 16 | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 10.0 | | 10.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| **2-Hexanone** | **45000** | **U** | **45000** | **U** | **10** | **U** | **10** | **UJ** | **920** | **U** |
| Dibromochloromethane | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| **1,2-Dibromoethane** | **45000** | **U** | **45000** | **U** | **10** | **U** | **10** | **UJ** | **920** | **U** |
| Chlorobenzene | 240000 | | 250000 | | 10 | U | 10 | UJ | 920 | U |
| **Ethylbenzene** | **45000** | **U** | **45000** | **U** | **10** | **U** | **10** | **UJ** | **920** | **U** |
| Xylenes (total) | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| **Styrene** | **45000** | **U** | **45000** | **U** | **10** | **U** | **10** | **UJ** | **920** | **U** |
| Bromoform | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| **Isopropylbenzene** | **45000** | **U** | **45000** | **U** | **10** | **U** | **10** | **UJ** | **920** | **U** |
| 1,1,2,2-Tetrachloroethane | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| **1,3-Dichlorobenzene** | **45000** | **U** | **45000** | **U** | **10** | **U** | **10** | **UJ** | **920** | **U** |
| 1,4-Dichlorobenzene | 45000 | U | 45000 | U | 10 | U | 10 | UJ | 920 | U |
| **1,2-Dichlorobenzene** | **45000** | **U** | **45000** | **U** | **10** | **U** | **10** | **UJ** | **920** | **U** |
| 1,2-Dibromo-3-chloropropane | 45000 | U | 45000 | U | 10 | R | 10 | R | 920 | U |
| **1,2,4-Trichlorobenzene** | **45000** | **U** | **45000** | **U** | **10** | **U** | **10** | **UJ** | **920** | **U** |

**Analytical Results (Qualified Data)**

Case #: 30616 SDG : E0155
Site : ELSWORTH INDUSTRIAL PARK
Lab : ENVSYS
Reviewer :
Date :

| Sample Number | VBLKB2 | | VBLKFR | | VBLKFX | | VBLKFY | | VHBLKFY | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | 0 | |
| 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 | 1200 | UJ | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ |
| Chloromethane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Vinyl Chloride | 1200 | U | 10 | U | 10 | U | 10 | UJ | 10 | U |
| Bromomethane | 1200 | U | 10 | UJ | 10 | UJ | 10 | U | 10 | U |
| Chloroethane | 1200 | U | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ |
| Trichlorofluoromethane | 1200 | U | 10 | U | 10 | UJ | 10 | U | 10 | U |
| 1,1-Dichloroethene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1200 | U | 10 | UJ | 10 | UJ | 10 | UJ | 10 | UJ |
| Acetone | 1200 | U | 3 | J | 4 | J | 2 | J | 10 | UJ |
| Carbon Disulfide | 1200 | U | 10 | U | 10 | UJ | 10 | U | 10 | U |
| Methyl Acetate | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Methylene Chloride | 240 | J | 2 | J | 2 | J | 2 | J | 10 | U |
| trans-1,2-Dichloroethene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Methyl tert-Butyl Ether | 1200 | U | 10 | U | 10 | U | 10 | UJ | 10 | UJ |
| 1,1-Dichloroethane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| cis-1,2-Dichloroethene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 2-Butanone | 1200 | U | 10 | UJ | 10 | U | 10 | U | 10 | U |
| Chloroform | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,1,1-Trichloroethane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Cyclohexane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Carbon Tetrachloride | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Benzene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-Dichloroethane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Trichloroethene | 1200 | U | 10 | U | 2 | J | 10 | U | 10 | U |
| Methylcyclohexane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-Dichloropropane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Bromodichloromethane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| cis-1,3-Dichloropropene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 4-Methyl-2-pentanone | 1200 | U | 10 | UJ | 10 | U | 10 | U | 10 | U |
| Toluene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| trans-1,3-Dichloropropene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,1,2-Trichloroethane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Tetrachloroethene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |

**Analytical Results (Qualified Data)**

Case #: 30616 SDG : E0155
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | VBLKB2 | | VBLKFR | | VBLKFX | | VBLKFY | | VHBLKFY | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | 0 | |
| 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 | 1200 | U | 10 | UJ | 10 | U | 10 | U | 10 | U |
| Dibromochloromethane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-Dibromoethane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Chlorobenzene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Ethylbenzene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Xylenes (total) | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Styrene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Bromoform | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Isopropylbenzene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,1,2,2-Tetrachloroethane | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,3-Dichlorobenzene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,4-Dichlorobenzene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-Dichlorobenzene | 1200 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-Dibromo-3-chloropropane | 1200 | U | 10 | R | 10 | R | 10 | R | 10 | R |
| 1,2,4-Trichlorobenzene | 1200 | U | 0.9 | J | 10 | U | 10 | U | 10 | U |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 7-2-02.

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ELLSWORTH INDUSTRIAL PARK (IL)

CASE NUMBER: 30616 SDG NUMBER: E0155

Number and Type of Samples: 8 (SOIL)

Sample Numbers: E0155-60, E0165-66

Laboratory: ENVIREC SYSTEMS Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Contract Laboratory Program

# Sample Delivery Group (SDG)
# Traffic Report (TR) Cover Sheet

Laboratory Name Envirosystems Laboratory Code ENVSYS

Contract No. 68-W-99-024 Case No. 30616

Analysis Price $577.98 per sample (FTCL) SDG Turnaround 7 Days

EPA Sample Numbers in SGD (Listed in Numerical Order)

| | | | |
|---|---|---|---|
| 1) E0155 | 7) E0165 | 13) | 19) |
| 2) E0156 | 8) E0166 | 14) | 18) |
| 3) E0157 | 9) | 15) | 19) |
| 4) E0158 | 10) | 16) | 20) |
| 5) E0159 | 11) | 17) | 21) |
| 6) E0160 | 12) | 18) | 22) |

E0155

SDG No./First Sample in SDG

E0166

Last Sample in SDG

6/20/02

First Sample Receipt Date

6/22/02

Last Sample Receipt Date

*Note: There are a maximum of 20 **field** samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature [illegible] Date 6/24/02

# USEPA Contract Laboratory Program
# Organic Traffic Report

Case No.:
DAS No:
SDG No: E0155

L

| | | | | | |
|---|---|---|---|---|---|
| Date Shipped: 6/19/02<br>Carrier Name: UPS<br>Airbill: 1z 621 589 22 1002 145 8<br>Shipped to: Envirosystems, Inc.<br>9200 Rumsey Rd.<br>Suite B102<br>Columbia MD 21045<br>(410) 964-0330 | Date Received/Received by: Barbara Crooke 6/20/02<br>Lab Contract No: _____ Unit Price: _____<br>Transfer To: _____<br>Date Received/Received By: _____<br>Lab Contract No: _____ Price: _____ | Sampler (Signature): James M. Salch<br>Relinquished By: James M. Salch | Date / Time: 6/19/02 17:30 | Received By: | |
| | | Relinquished By: | Date / Time: | Received By: | |
| | | Relinquished By: | Date / Time: | Received By: | |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E0155 | Soil/Sediment/ Jim Salch | L/G | PER_SOL (21), VOA (21) | 5-37716, 5-37717 (2) | X13 | 6/19/02 13:45 | | |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete?N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 6°C | Chain of Custody Seal Number: 97400 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? ✓ Shipment Iced? ✓ |
| PER_SOL = Percent Solids, VOA = CLP TCL Volatiles | | | | |

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: C ct Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA 91-3436 Phone 703/264-9348 Fax 703/264-9222

**TR Number: 5-324306854-061902-0001**

# USEPA Contract Laboratory Program
# Organic Traffic Report

DAS No:
SDG No: E0155 L

| | | | |
|---|---|---|---|
| Date Shipped: 6/20/02<br>Carrier Name: UPS<br>Airbill: 1z 621 589 22 1002 147 6<br>Shipped to: Envirosystems, Inc.<br>9200 Rumsey Rd.<br>Suite B102<br>Columbia MD 21045<br>(410) 964-0330 | Date Received/Received by: Dakota Crook 6/21/02<br>Lab Contract No: ____ Unit Price: ____<br>Transfer To: ____<br>Date Received/Received By: ____<br>Lab Contract No: ____ Price: ____ | Sampler (Signature): James M. Salch<br>Relinquished By: James M. Salch<br>Relinquished By:<br>Relinquished By: | Date / Time: 6/20/02 17:00<br>Date / Time:<br>Date / Time: |
| | | Received By:<br>Received By:<br>Received By: | |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E0156 | Soil/Sediment/ Jim Salch | L/G | PER_SOL (7), VOA (7) | 5-37718, 5-37719 (2) | X51 | 6/20/02 8:00 | | |
| E0157 | Soil/Sediment/ Jim Salch | L/G | PER_SOL (7), VOA (7) | 5-37720, 5-37721 (2) | EIPX5 | 6/20/02 12:45 | | |
| E0158 | Soil/Sediment/ Jim Salch | M/G | PER_SOL (7), VOA (7) | 5-37722, 5-37723 (2) | X52A | 6/20/02 15:45 | | |
| E0159 | Soil/Sediment/ Jim Salch | M/G | PER_SOL (7), VOA (7) | 5-37724, 5-37725 (2) | X52D | 6/20/02 15:45 | | |
| E0160 | Soil/Sediment/ Jim Salch | M/G | PER_SOL (7), VOA (7) | 5-37726, 5-37727 (2) | ~~X54B~~ X52B | 6/20/02 16:15 | | |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: E0156 | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 5°C | Chain of Custody Seal Number: 7630 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? Y | Shipment Iced? Y |
| PER_SOL = Percent Solids, VOA = CLP TCL Volatiles | | | | |

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: ...act Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, V ...191-3436 Phone 703/264-9348 Fax 703/264-9222

**TR Number: 5-324306854-062002-0001**

# USEPA Contract Laboratory Program
# Organic Traffic Report

Case No:
DAS No:
SDG No: E0155

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|---|---|---|---|
| Date Shipped: 6/21/02<br>Carrier Name: UPS<br>Airbill: 1Z 621 589 22 1002 151 0<br>Shipped to: Envirosystems, Inc.<br>9200 Rumsey Rd.<br>Suite B102<br>Columbia MD 21045<br>(410) 964-0330 | Date Received/Received by: 6/22/02<br>Lab Contract No: 68L99024 Unit Price:<br>Transfer To:<br>Date Received/Received By:<br>Lab Contract No: Price: | Sampler (Signature): James M. Salch<br>Relinquished By: James M. Salch<br>Relinquished By:<br>Relinquished By: | Date / Time: 6/21/02 12:00<br>Date / Time:<br>Date / Time: | Received By:<br>Received By:<br>Received By: |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E0165 | Soil/Sediment/ Jim Salch | L/G | PER_SOL (7), VOA (7) | 5-37745, 5-37746 (2) | X53A | 6/21/02 9:45 | | |
| E0166 | Soil/Sediment/ Jim Salch | L/G | PER_SOL (7), VOA (7) | 5-37747, 5-37748 (2) | X53B | 6/21/02 10:00 | | |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete?N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 5°C | Chain of Custody Seal Number: 47612 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact?___ Shipment Iced?___ |
| PER_SOL = Percent Solids, VOA = CLP TCL Volatiles | | | | |

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: ract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, \ 191-3436 Phone 703/264-9348 Fax 703/264-9222

**TR Number: 5-324306854-062102-0001**

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 30616 SDG #: E0155 REGION: V

CONTRACT: AG-W9-9024

DATES SAMPLES RECEIVED AT LABORATORY: 20 - 21 JUNE 2002

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

| EPA SAMPLE # | LAB ID # | ANALYSIS | MATRIX | VOA pH |
|---|---|---|---|---|
| E0155 | 02061135 | VOA | SOIL | n/a |
| E0156 | 02061155 | VOA | SOIL | n/a |
| E0157 | 02061156 | VOA | SOIL | n/a |
| E0158 | 02061157 | VOA | SOIL | n/a |
| E0158DL | 02061157 | VOA | SOIL | n/a |
| E0159 | 02061158 | VOA | SOIL | n/a |
| E0160 | 02061159 | VOA | SOIL | n/a |
| E0160DL | 02061159 | VOA | SOIL | n/a |
| E0165 | 02061188 | VOA | SOIL | n/a |
| E0166 | 02061189 | VOA | SOIL | n/a |
| E0166DL | 02061189 | VOA | SOIL | n/a |

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E0155 for low soil and E0159 for medium level soil.

Samples for this contract are analyzed by EPA SOW OLM04.2 for multi-media multi-concentration organics.

The cooler temperature blanks were measured to be within the acceptable range.

VOLATILES SECTION:

The medium level soil and aqueous volatile analysis was performed on a Finnigan 5100 GC\MS using a Restek RTX-502.2 column with an inner diameter of 0.53 mm and a 3 micron film thickness. The trap used with the autosampler is a 30 cm Supelco, Inc. K Trap (VOCARB 3000) packed with Carbopack B/Carboxen 1000 & 1001.

The low soil volatile analysis was performed using a Restek RTX-624 60 meter column with an inner diameter of 0.25mm and a 1.4 micron film thickness. The trap used with the autosampler is a 30 cm OI #10 analytical trap packed with Tenax/silica gel/cms.

Samples E0158, E0159, E0160 and E0166 required medium level dilution due to high concentrations of target compounds in the primary low level analysis.

The primary low level analyses of samples E0159 and E0160 were run after samples containing target compounds above the calibration range. These analyses are not included in this report. Reanalyses were performed at medium level.

Surrogate recoveries and internal standard areas did not meet the contract requirements in the low level analysis of sample E0158. Sample E0158 also had noncompliant internal standard areas. Each sample required a medium level dilution and although the QC was compliant in the diluted analyses both sets of data for each sample are included in this report.

The analysis of sample E0156MSD had noncompliant internal standard areas however, no action was required by the contract for QC samples.

All other QC criteria were met for all samples in this SDG.

Each of the ten MS/MSD recoveries and each of the five MS/MSD RPD values were within the EPA advisory QC limits for low soil QC.

One of the ten MS/MSD recoveries was outside the EPA advisory QC limits for medium level soil QC. Each of the five MS/MSD RPD values was within the EPA advisory QC limits for medium level soil QC.

Manual integrations were performed on the following samples and/or standards due to poor peak shape, coelution and/or low response: E0156, E0158, E0165, VSTD010FF, VSTD020FF, VSTD050FF, VSTD100FF, VSTD200FF, VSTD050FX, VSTD050FY and VBLKFY.

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/HER DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

DATE: 6/28/02

William Brewington
Organics Section Manager

28 June 2002

ALKANE NARRATIVE REPORT
Report date : 06/28/2002
SDG: E0155

Client Sample ID: E0158 Lab Sample ID: 02061157 File ID: H73FI701

| Compound | RT | Est. Conc. | Q |
|---|---|---|---|
| Unknown Alkane | 23.46 | 150 | J |
| Unknown Alkane | 26.39 | 99 | J |
| Unknown Alkane | 29.39 | 50 | J |
| Unknown Alkane | 32.02 | 57 | J |

# SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Level:(low/med) LOW

| | EPA SAMPLE NO. | SMC1 (TOL) # | SMC2 (BFB) # | SMC3 (DCE) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | VBLKFR | 98 | 86 | 92 | | 0 |
| 02 | E0155 | 98 | 78 | 91 | | 0 |
| 03 | E0156 | 95 | 81 | 97 | | 0 |
| 04 | E0156MS | 95 | 74 | 98 | | 0 |
| 05 | E0156MSD | 97 | 74 | 98 | | 0 |
| 06 | E0158 | 108 | 67 | 75 | | 0 |
| 07 | VBLKFX | 88 | 68 | 74 | | 0 |
| 08 | E0157 | 94 | 60 | 71 | | 0 |
| 09 | E0166 | 96 | 48* | 79 | | 1 |
| 10 | VBLKFY | 100 | 76 | 88 | | 0 |
| 11 | E0165 | 106 | 69 | 90 | | 0 |
| 12 | VHBLKFY | 102 | 74 | 88 | | 0 |
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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

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Level: (low/med) MEDIUM

| | EPA SAMPLE NO. | SMC1 (TOL)# | SMC2 (BFB)# | SMC3 (DCE)# | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | E0158DL | 101 | 98 | 103 | 0 | 0 |
| 02 | E0159 | 102 | 101 | 100 | 0 | 0 |
| 03 | E0160 | 102 | 101 | 99 | 0 | 0 |
| 04 | E0160DL | 101 | 100 | 100 | 0 | 0 |
| 05 | E0166DL | 101 | 101 | 101 | 0 | 0 |
| 06 | VIBLKB2 | 99 | 97 | 99 | 0 | 0 |
| 07 | E0160MS | 100 | 99 | 100 | 0 | 0 |
| 08 | E0160MSD | 98 | 98 | 101 | 0 | 0 |
| 09 | VBLKB2 | 103 | 96 | 103 | 0 | 0 |

| | | 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

0013

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix Spike - EPA Sample No.: E0156 Level:(low/med) LOW

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE AMOUNT (ug/L) | MS AMOUNT (ug/Kg) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 62 | 0.0 | 49 | 79 | 59-172 |
| Trichloroethene | 62 | 0.0 | 57 | 92 | 62-137 |
| Benzene | 62 | 0.0 | 52 | 84 | 66-142 |
| Toluene | 62 | 0.0 | 60 | 97 | 59-139 |
| Chlorobenzene | 62 | 0.0 | 60 | 97 | 60-133 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD AMOUNT (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 62 | 46 | 74 | 7 | 22 | 59-172 |
| Trichloroethene | 62 | 57 | 92 | 0 | 24 | 62-137 |
| Benzene | 62 | 51 | 82 | 2 | 21 | 66-142 |
| Toluene | 62 | 57 | 92 | 5 | 21 | 59-139 |
| Chlorobenzene | 62 | 57 | 92 | 5 | 21 | 60-133 |

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

* Values outside of QC limits

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

COMMENTS:

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS Contract: 68W9SC24

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix Spike - EPA Sample No.: E0160 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 | 233000 | 0 | 230000 | 99 | 59-172 |
| Trichloroethene | 233000 | 500000 | 790000 | 124 | 62-137 |
| Benzene | 233000 | 0 | 230000 | 99 | 66-142 |
| Toluene | 233000 | 0 | 230000 | 99 | 59-139 |
| Chlorobenzene | 233000 | 0 | 240000 | 103 | 60-133 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 233000 | 240000 | 103 | 4 | 22 | 59-172 |
| Trichloroethene | 233000 | 850000 | 150 * | 19 | 24 | 62-137 |
| Benzene | 233000 | 250000 | 107 | 8 | 21 | 66-142 |
| Toluene | 233000 | 250000 | 107 | 8 | 21 | 59-139 |
| Chlorobenzene | 233000 | 250000 | 107 | 4 | 21 | 60-133 |

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 1 0 out of 10 outside limits

COMMENTS: 02061159 E0160 CASE 30616 SDG E0155 6/21 10UL ML
F5100B 35(5)/240/10 WB

0015

VOLATILE METHOD BLANK SUMMARY

VBLKB2

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Lab File ID: 0625VSBB1 Lab Sample ID: 0625VSBB1

Date Analyzed: 06/25/02 Time Analyzed: 1133

GC Column: RTX-502.2 ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: F5100B

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E0158DL | 020061157 | 061157MR | 1315 |
| 02 | E0159 | 02061158 | 061158M | 1350 |
| 03 | E0160 | 02061159 | 061159M | 1424 |
| 04 | E0160DL | 02061159 | 061159MR | 1532 |
| 05 | E0166DL | 02061189 | 061189M | 1715 |
| 06 | VIBLKB2 | 0625VIBLKB2 | 0625VIBLKB2 | 1458 |
| 07 | E0160MS | 02061159 | 061159MS | 1607 |
| 08 | E0160MSD | 02061159 | 061159MSD | 1641 |

COMMENTS: VBLKB2 VOA MEDIUM LEVEL SOIL BLANK 6/25/02
F5100B 35(5)/240/10 WB

0016

# VOLATILE METHOD BLANK SUMMARY

VBLKFR

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Lab File ID: H73FI692 Lab Sample ID: VBLK0621

Date Analyzed: 06/21/02 Time Analyzed: 1405

GC Column: HP-VOC ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E0155 | 02061135 | H73FI696 | 1656 |
| 02 | E0156 | 02061155 | H73FI698 | 1815 |
| 03 | E0156MS | 02061155MS | H73FI699 | 1854 |
| 04 | E0156MSD | 02061155MSD | H73FI700 | 1934 |
| 05 | E0158 | 02061157 | H73FI701 | 2014 |
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COMMENTS:

# VOLATILE METHOD BLANK SUMMARY

VBLKFX

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Lab File ID: H73FI722 Lab Sample ID: VBLK0625

Date Analyzed: 06/25/02 Time Analyzed: 1328

GC Column: HP-VOC ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E0157 | 02061156 | H73FI723 | 1408 |
| 02 | E0166 | 02061189 | H73FI725 | 1515 |
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COMMENTS:



FORM IV VOA OLM04.2

# VOLATILE METHOD BLANK SUMMARY

VBLKFY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Lab File ID: H73FI742 Lab Sample ID: VBLK0626

Date Analyzed: 06/26/02 Time Analyzed: 1802

GC Column: HP-VOC ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E0165 | 02061188 | H73FI744 | 1908 |
| 02 | VHBLKFY | VHBLK0620 | H73FI746 | 2027 |
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COMMENTS:

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0155

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061135

Sample wt/vol: 5.7(g/mL) G Lab File ID: H73FI696

Level: (low/med) LOW Date Received: 06/20/02

% Moisture: not dec. 19 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | 11 | U |
| 75-35-4 | 1,1-Dichloroethene | 11 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | U |
| 67-64-1 | Acetone | 15 | B |
| 75-15-0 | Carbon Disulfide | 11 | U |
| 79-20-9 | Methyl Acetate | 11 | U |
| 75-09-2 | Methylene Chloride | 11 ~~3~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 11 | U |
| 1634-04-4 | tert-Butyl Methyl 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 | 11 | U |
| 107-06-2 | 1,2-Dichloroethane | 11 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

E0155

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061135

Sample wt/vol: 5.7(g/mL) G Lab File ID: H73FI696

Level: (low/med) LOW Date Received: 06/20/02

% Moisture: not dec. 19 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E0155

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061135

Sample wt/vol: 5.7 (g/mL) G Lab File ID: H73FI696

Level: (low/med) LOW Date Received: 06/20/02

% Moisture: not dec. 19 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

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

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | | | | |
| 2. | | | | |
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# VOLATILE ORGANICS ANALYSIS DATA SHEET

E0156

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061155

Sample wt/vol: 5.9(g/mL) G Lab File ID: H73FI698

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | U |
| 74-87-3 | Chloromethane | 13 | U |
| 75-01-4 | Vinyl Chloride | 13 | U |
| 74-83-9 | Bromomethane | 13 | U |
| 75-00-3 | Chloroethane | 13 | U |
| 75-69-4 | Trichlorofluoromethane | 13 | U |
| 75-35-4 | 1,1-Dichloroethene | 13 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 13 | U |
| 67-64-1 | Acetone | 13 ~~4~~ | JB u |
| 75-15-0 | Carbon Disulfide | 13 | U |
| 79-20-9 | Methyl Acetate | 13 | U |
| 75-09-2 | Methylene Chloride | 13 ~~3~~ | JB u |
| 156-60-5 | trans-1,2-Dichloroethene | 13 | U |
| 1634-04-4 | tert-Butyl Methyl Ether | 13 | U |
| 75-34-3 | 1,1-Dichloroethane | 13 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 13 | U |
| 78-93-3 | 2-Butanone | 13 | U |
| 67-66-3 | Chloroform | 13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 13 | U |
| 110-82-7 | Cyclohexane | 13 | U |
| 56-23-5 | Carbon Tetrachloride | 13 | U |
| 71-43-2 | Benzene | 13 | U |
| 107-06-2 | 1,2-Dichloroethane | 13 | U |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0156

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061155

Sample wt/vol: 5.9(g/mL) G Lab File ID: H73FI698

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | 13 | U |
| 108-87-2 | Methylcyclohexane | 13 | U |
| 78-87-5 | 1,2-Dichloropropane | 13 | U |
| 75-27-4 | Bromodichloromethane | 13 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 13 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 13 | U |
| 108-88-3 | Toluene | 13 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 13 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 13 | U |
| 127-18-4 | Tetrachloroethene | 13 | U |
| 591-78-6 | 2-Hexanone | 13 | U |
| 124-48-1 | Dibromochloromethane | 13 | U |
| 106-93-4 | 1,2-Dibromoethane | 13 | U |
| 108-90-7 | Chlorobenzene | 13 | U |
| 100-41-4 | Ethylbenzene | 13 | U |
| 1330-20-7 | Xylene (Total) | 13 | U |
| 100-42-5 | Styrene | 13 | U |
| 75-25-2 | Bromoform | 13 | U |
| 98-82-8 | Isopropylbenzene | 13 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 13 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 13 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 13 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 13 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 13 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 13 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E0156

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061155

Sample wt/vol: 5.9 (g/mL) G Lab File ID: H73FI698

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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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VOLATILE ORGANICS ANALYSIS DATA SHEET

E0156MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061155MS

Sample wt/vol: 5.9(g/mL) G Lab File ID: H73FI699

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | 12 | U |
| 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 | 12 | U |
| 75-35-4 | 1,1-Dichloroethene | 49 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12 | U |
| 67-64-1 | Acetone | 12 ~~4~~ | JB u |
| 75-15-0 | Carbon Disulfide | 12 | U |
| 79-20-9 | Methyl Acetate | 12 | U |
| 75-09-2 | Methylene Chloride | 12 ~~5~~ | JB u |
| 156-60-5 | trans-1,2-Dichloroethene | 12 | U |
| 1634-04-4 | tert-Butyl Methyl 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 | 52 | |
| 107-06-2 | 1,2-Dichloroethane | 12 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0156MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061155MS

Sample wt/vol: 5.9(g/mL) G Lab File ID: H73FI699

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | 57 | |
| 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 | 60 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U |
| 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 | 60 | |
| 100-41-4 | Ethylbenzene | 12 | U |
| 1330-20-7 | Xylene (Total) | 12 | U |
| 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 |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

E0156MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061155MSD

Sample wt/vol: 5.9(g/mL) G Lab File ID: H73FI700

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | 12 | U |
| 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 | 12 | U |
| 75-35-4 | 1,1-Dichloroethene | 46 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12 | U |
| 67-64-1 | Acetone | 12 ~~4~~ | JB |
| 75-15-0 | Carbon Disulfide | 12 | U |
| 79-20-9 | Methyl Acetate | 12 | U |
| 75-09-2 | Methylene Chloride | 12 ~~6~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 12 | U |
| 1634-04-4 | tert-Butyl Methyl 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 | 51 | |
| 107-06-2 | 1,2-Dichloroethane | 12 | U |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0156MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061155MSD

Sample wt/vol: 5.9(g/mL) G Lab File ID: H73FI700

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | 57 | |
| 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 | 57 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U |
| 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 | 57 | |
| 100-41-4 | Ethylbenzene | 12 | U |
| 1330-20-7 | Xylene (Total) | 12 | U |
| 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 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0157

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061156

Sample wt/vol: 5.8(g/mL) G Lab File ID: H73FI723

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 34 Date Analyzed: 06/25/02

GC Column: HP-VOC ID: 0.20 (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 | U |
| 74-87-3 | Chloromethane | 13 | U |
| 75-01-4 | Vinyl Chloride | 13 | U |
| 74-83-9 | Bromomethane | 13 | U |
| 75-00-3 | Chloroethane | 13 | U |
| 75-69-4 | Trichlorofluoromethane | 13 | U |
| 75-35-4 | 1,1-Dichloroethene | 13 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 13 | U |
| 67-64-1 | Acetone | 13 ~~8~~ | JB |
| 75-15-0 | Carbon Disulfide | 13 | U |
| 79-20-9 | Methyl Acetate | 13 | U |
| 75-09-2 | Methylene Chloride | 13 ~~7~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 13 | U |
| 1634-04-4 | tert-Butyl Methyl Ether | 13 | U |
| 75-34-3 | 1,1-Dichloroethane | 13 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 13 | U |
| 78-93-3 | 2-Butanone | 13 | U |
| 67-66-3 | Chloroform | 13 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 13 | U |
| 110-82-7 | Cyclohexane | 13 | U |
| 56-23-5 | Carbon Tetrachloride | 13 | U |
| 71-43-2 | Benzene | 13 | U |
| 107-06-2 | 1,2-Dichloroethane | 13 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0157

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061156

Sample wt/vol: 5.8(g/mL) G Lab File ID: H73FI723

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 34 Date Analyzed: 06/25/02

GC Column: HP-VOC ID: 0.20 (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 | 13 ~~4~~ | JB UC |
| 108-87-2 | Methylcyclohexane | 13 | U |
| 78-87-5 | 1,2-Dichloropropane | 13 | U |
| 75-27-4 | Bromodichloromethane | 13 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 13 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 13 | U |
| 108-88-3 | Toluene | 13 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 13 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 13 | U |
| 127-18-4 | Tetrachloroethene | 1 | J |
| 591-78-6 | 2-Hexanone | 13 | U |
| 124-48-1 | Dibromochloromethane | 13 | U |
| 106-93-4 | 1,2-Dibromoethane | 13 | U |
| 108-90-7 | Chlorobenzene | 13 | U |
| 100-41-4 | Ethylbenzene | 13 | U |
| 1330-20-7 | Xylene (Total) | 3 | J |
| 100-42-5 | Styrene | 13 | U |
| 75-25-2 | Bromoform | 13 | U |
| 98-82-8 | Isopropylbenzene | 13 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 13 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 13 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 13 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 13 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 13 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 13 | U |

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EPA SAMPLE NO.

E0157

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061156

Sample wt/vol: 5.8 (g/mL) G Lab File ID: H73FI723

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 34 Date Analyzed: 06/25/02

GC Column: HP-VOC ID: 0.20 (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. | | | | |
| 4. | | | | |
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# VOLATILE ORGANICS ANALYSIS DATA SHEET

E0158

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061157

Sample wt/vol: 6.0(g/mL) G Lab File ID: H73FI701

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 31 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | 12 | U |
| 74-87-3 | Chloromethane | 12 | U |
| 75-01-4 | Vinyl Chloride | 340 | E |
| 74-83-9 | Bromomethane | 12 | U |
| 75-00-3 | Chloroethane | 12 | U |
| 75-69-4 | Trichlorofluoromethane | 12 | U |
| 75-35-4 | 1,1-Dichloroethene | 26 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12 | U |
| 67-64-1 | Acetone | 12 ~~6~~ | JB u |
| 75-15-0 | Carbon Disulfide | 12 | U |
| 79-20-9 | Methyl Acetate | 12 | U |
| 75-09-2 | Methylene Chloride | 12 ~~4~~ | JB u |
| 156-60-5 | trans-1,2-Dichloroethene | 910 | E |
| 1634-04-4 | tert-Butyl Methyl Ether | 12 | U |
| 75-34-3 | 1,1-Dichloroethane | 12 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 15000 | E |
| 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 | 12 | U |
| 107-06-2 | 1,2-Dichloroethane | 21 | |

VOLATILE ORGANICS ANALYSIS DATA SHEET

E0158

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061157

Sample wt/vol: 6.0(g/mL) G Lab File ID: H73FI701

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 31 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | 32000 | E |
| 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 | 660 | E |
| 10061-02-6 | trans-1,3-Dichloropropene | 12 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 18 | |
| 127-18-4 | Tetrachloroethene | 1100 | E |
| 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 | 140 | |
| 1330-20-7 | Xylene (Total) | 152 | |
| 100-42-5 | Styrene | 12 | U |
| 75-25-2 | Bromoform | 12 | U |
| 98-82-8 | Isopropylbenzene | 12 | J |
| 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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0158

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061157

Sample wt/vol: 6.0 (g/mL) G Lab File ID: H73FI701

Level: (low/med) LOW Date Received: 06/21/02

% Moisture: not dec. 31 Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 8

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | UNKNOWN | 12.86 | 27 | J |
| 2. | | UNKNOWN | 22.62 | 9 | J |
| 3. | 103-65-1 | BENZENE, PROPYL- | 23.23 | 38 | NJ |
| 4. | | UNKNOWN | 24.17 | 84 | J |
| 5. | 95-63-6 | BENZENE, 1,2,4-TRIMETHYL- | 24.59 | 220 | NJ |
| 6. | 99-87-6 | BENZENE, 1-METHYL-4-(1-METHY | 25.19 | 28 | NJ |
| 7. | 526-73-8 | BENZENE, 1,2,3-TRIMETHYL- | 25.64 | 110 | NJ |
| 8. | | | | | |
| 9. | | | | | |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
| 15. | | | | | |
| 16. | | | | | |
| 17. | | | | | |
| 18. | | | | | |
| 19. | | | | | |
| 20. | | | | | |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

VOLATILE ORGANICS ANALYSIS DATA SHEET

EC158DL

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: EC155

Matrix: (soil/water) SOIL Lab Sample ID: 020061157

Sample wt/vol: 6.0 (g/mL) G Lab File ID 061157MR

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 31 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 10.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 13000 | U |
| 74-87-3 | Chloromethane | 13000 | U |
| 75-01-4 | Vinyl Chloride | 13000 | U |
| 74-83-9 | Bromomethane | 13000 | U |
| 75-00-3 | Chloroethane | 13000 | U |
| 75-69-4 | Trichlorofluoromethane | 13000 | U |
| 75-35-4 | 1,1-Dichloroethene | 13000 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 13000 | U |
| 67-64-1 | Acetone | 13000 | U |
| 75-15-0 | Carbon Disulfide | 13000 | U |
| 79-20-9 | Methyl Acetate | 13000 | U |
| 75-09-2 | Methylene Chloride | 13000 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 13000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 13000 | U |
| 75-34-3 | 1,1-Dichloroethane | 13000 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 59000 | D |
| 78-93-3 | 2-Butanone | 13000 | U |
| 67-66-3 | Chloroform | 13000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 13000 | U |
| 110-82-7 | Cyclohexane | 13000 | U |
| 56-23-5 | Carbon Tetrachloride | 13000 | U |
| 71-43-2 | Benzene | 13000 | U |
| 107-06-2 | 1,2-Dichloroethane | 13000 | U |

0096

VOLATILE ORGANICS ANALYSIS DATA SHEET

E0155DL

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 020061157

Sample wt/vol: 6.0 (g/mL) G Lab File ID: 061157MR

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 31 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 10.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 220000 | D |
| 108-87-2 | Methylcyclohexane | 13000 | U |
| 78-87-5 | 1,2-Dichloropropane | 13000 | U |
| 75-27-4 | Bromodichloromethane | 13000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 13000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 13000 | U |
| 108-88-3 | Toluene | 13000 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 13000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 13000 | U |
| 127-18-4 | Tetrachloroethene | 1300 | DJ |
| 591-78-6 | 2-Hexanone | 13000 | U |
| 124-48-1 | Dibromochloromethane | 13000 | U |
| 106-93-4 | 1,2-Dibromoethane | 13000 | U |
| 108-90-7 | Chlorobenzene | 13000 | U |
| 100-41-4 | Ethylbenzene | 13000 | U |
| 1330-20-7 | Xylene (total) | 13000 | U |
| 100-42-5 | Styrene | 13000 | U |
| 75-25-2 | Bromoform | 13000 | U |
| 98-82-8 | Isopropylbenzene | 13000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 13000 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 13000 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 13000 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 13000 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 13000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 13000 | U |

0097

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E0158DL

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix (soil/water) SOIL Lab Sample ID: 020061157

Sample wt/vol: 5.0 (g/mL) G Lab File ID 061157MR

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 31 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume 10.0(uL)

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

0098

VOLATILE ORGANICS ANALYSIS DATA SHEET

EO159

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: EO155

Matrix: (soil/water) SOIL Lab Sample ID: 020611SB

Sample wt/vol: 6.3 (g/mL) G Lab File ID 061158M

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 30 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume. 10.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 12000 | U |
| 74-87-3 | Chloromethane | 12000 | U |
| 75-01-4 | Vinyl Chloride | 12000 | U |
| 74-83-9 | Bromomethane | 12000 | U |
| 75-00-3 | Chloroethane | 12000 | U |
| 75-69-4 | Trichlorofluoromethane | 12000 | U |
| 75-35-4 | 1,1-Dichloroethene | 12000 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12000 | U |
| 67-64-1 | Acetone | 12000 | U |
| 75-15-0 | Carbon Disulfide | 12000 | U |
| 79-20-9 | Methyl Acetate | 12000 | U |
| 75-09-2 | Methylene Chloride | 12000 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 12000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 12000 | U |
| 75-34-3 | 1,1-Dichloroethane | 12000 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 54000 | |
| 78-93-3 | 2-Butanone | 12000 | U |
| 67-66-3 | Chloroform | 12000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 12000 | U |
| 110-82-7 | Cyclohexane | 12000 | U |
| 56-23-5 | Carbon Tetrachloride | 12000 | U |
| 71-43-2 | Benzene | 12000 | U |
| 107-06-2 | 1,2-Dichloroethane | 12000 | U |

011

VOLATILE ORGANICS ANALYSIS DATA SHEET

EDG No.: E0155

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061158

Sample wt/vol: 6.3 (g/mL) G Lab File ID: 061158M

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 30 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 10.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 210000 | |
| 108-87-2 | Methylcyclohexane | 12000 | U |
| 78-87-5 | 1,2-Dichloropropane | 12000 | U |
| 75-27-4 | Bromodichloromethane | 12000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 12000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 12000 | U |
| 108-88-3 | Toluene | 12000 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 12000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 12000 | U |
| 127-18-4 | Tetrachloroethene | 1300 | J |
| 591-78-6 | 2-Hexanone | 12000 | U |
| 124-48-1 | Dibromochloromethane | 12000 | U |
| 106-93-4 | 1,2-Dibromoethane | 12000 | U |
| 108-90-7 | Chlorobenzene | 12000 | U |
| 100-41-4 | Ethylbenzene | 12000 | U |
| 1330-20-7 | Xylene (total) | 12000 | U |
| 100-42-5 | Styrene | 12000 | U |
| 75-25-2 | Bromoform | 12000 | U |
| 98-82-8 | Isopropylbenzene | 12000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12000 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 12000 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 12000 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 12000 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 12000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 12000 | U |

0115

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E0159

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061158

Sample wt/vol: 6.3 (g/mL) G Lab File ID: 061158M

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 30 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 10.0(uL)

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|

0116

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EO160

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: EO155

Matrix: (soil/water) SOIL Lab Sample ID: 02061159

Sample wt/vol: 6.3 (g/mL) G Lab File ID: 061159M

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 10.0(uL)

| CAS NO | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 12000 | U |
| 74-87-3 | Chloromethane | 12000 | U |
| 75-01-4 | Vinyl Chloride | 12000 | U |
| 74-83-9 | Bromomethane | 12000 | U |
| 75-00-3 | Chloroethane | 12000 | U |
| 75-69-4 | Trichlorofluoromethane | 12000 | U |
| 75-35-4 | 1,1-Dichloroethene | 12000 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12000 | U |
| 67-64-1 | Acetone | 12000 | U |
| 75-15-0 | Carbon Disulfide | 12000 | U |
| 79-20-9 | Methyl Acetate | 12000 | U |
| 75-09-2 | Methylene Chloride | 12000 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 12000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 12000 | U |
| 75-34-3 | 1,1-Dichloroethane | 12000 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 27000 | |
| 78-93-3 | 2-Butanone | 12000 | U |
| 67-66-3 | Chloroform | 12000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 12000 | U |
| 110-82-7 | Cyclohexane | 12000 | U |
| 56-23-5 | Carbon Tetrachloride | 12000 | U |
| 71-43-2 | Benzene | 12000 | U |
| 107-06-2 | 1,2-Dichloroethane | 12000 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

E0160

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061159

Sample wt/vol: 6.3 (g/mL) G Lab File ID: 061159M

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 10.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 500000 | E |
| 108-87-2 | Methylcyclohexane | 12000 | U |
| 78-87-5 | 1,2-Dichloropropane | 12000 | U |
| 75-27-4 | Bromodichloromethane | 12000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 12000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 12000 | U |
| 108-88-3 | Toluene | 12000 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 12000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 12000 | U |
| 127-18-4 | Tetrachloroethene | 2300 | U |
| 591-78-6 | 2-Hexanone | 12000 | U |
| 124-48-1 | Dibromochloromethane | 12000 | U |
| 106-93-4 | 1,2-Dibromoethane | 12000 | U |
| 108-90-7 | Chlorobenzene | 12000 | U |
| 100-41-4 | Ethylbenzene | 12000 | U |
| 1330-20-7 | Xylene (total) | 12000 | U |
| 100-42-5 | Styrene | 12000 | U |
| 75-25-2 | Bromoform | 12000 | U |
| 98-82-8 | Isopropylbenzene | 12000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12000 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 12000 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 12000 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 12000 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 12000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 12000 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E0160

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061159

Sample wt/vol: 6.3 (g/mL) G Lab File ID: 061159M

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 10.0(uL)

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|

0134

# VOLATILE ORGANICS ANALYSIS DATA SHEET

E0160DL

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061159

Sample wt/vol: 6.3 (g/mL) G Lab File ID: 061159MR

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 10

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 49000 | U |
| 74-87-3 | Chloromethane | 49000 | U |
| 75-01-4 | Vinyl Chloride | 49000 | U |
| 74-83-9 | Bromomethane | 49000 | U |
| 75-00-3 | Chloroethane | 49000 | U |
| 75-69-4 | Trichlorofluoromethane | 49000 | U |
| 75-35-4 | 1,1-Dichloroethene | 49000 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 49000 | U |
| 67-64-1 | Acetone | 49000 | U |
| 75-15-0 | Carbon Disulfide | 49000 | U |
| 79-20-9 | Methyl Acetate | 49000 | U |
| 75-09-2 | Methylene Chloride | 49000 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 49000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 49000 | U |
| 75-34-3 | 1,1-Dichloroethane | 49000 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 38000 | DJ |
| 78-93-3 | 2-Butanone | 49000 | U |
| 67-66-3 | Chloroform | 49000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 49000 | U |
| 110-82-7 | Cyclohexane | 49000 | U |
| 56-23-5 | Carbon Tetrachloride | 49000 | U |
| 71-43-2 | Benzene | 49000 | U |
| 107-06-2 | 1,2-Dichloroethane | 49000 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

E0160DL

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061159

Sample wt/vol: 6.3 (g/mL) G Lab File ID: 061159MR

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 10

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 500000 | D |
| 108-87-2 | Methylcyclohexane | 49000 | U |
| 78-87-5 | 1,2-Dichloropropane | 49000 | U |
| 75-27-4 | Bromodichloromethane | 49000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 49000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 49000 | U |
| 108-88-3 | Toluene | 49000 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 49000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 49000 | U |
| 127-18-4 | Tetrachloroethene | 49000 | U |
| 591-78-6 | 2-Hexanone | 49000 | U |
| 124-48-1 | Dibromochloromethane | 49000 | U |
| 106-93-4 | 1,2-Dibromoethane | 49000 | U |
| 108-90-7 | Chlorobenzene | 49000 | U |
| 100-41-4 | Ethylbenzene | 49000 | U |
| 1330-20-7 | Xylene (total) | 49000 | U |
| 100-42-5 | Styrene | 49000 | U |
| 75-25-2 | Bromoform | 49000 | U |
| 98-82-8 | Isopropylbenzene | 49000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 49000 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 49000 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 49000 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 49000 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 49000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 49000 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E0160DL

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061159

Sample wt/vol: 6.3 (g/mL) G Lab File ID: 061159MR

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 10

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|

0152

VOLATILE ORGANICS ANALYSIS DATA SHEET

EC160MS

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: EC155

Matrix: (soil/water) SOIL Lab Sample ID: 02061159

Sample wt/vol: 6.3 (g/mL) G Lab File ID: 061159MS

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 10

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 49000 | U |
| 74-87-3 | Chloromethane | 49000 | U |
| 75-01-4 | Vinyl Chloride | 49000 | U |
| 74-83-9 | Bromomethane | 49000 | U |
| 75-00-3 | Chloroethane | 49000 | U |
| 75-69-4 | Trichlorofluoromethane | 49000 | U |
| 75-35-4 | 1,1-Dichloroethene | 230000 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 49000 | U |
| 67-64-1 | Acetone | 49000 | U |
| 75-15-0 | Carbon Disulfide | 49000 | U |
| 79-20-9 | Methyl Acetate | 49000 | U |
| 75-09-2 | Methylene Chloride | 49000 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 49000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 49000 | U |
| 75-34-3 | 1,1-Dichloroethane | 49000 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 39000 | J |
| 78-93-3 | 2-Butanone | 49000 | U |
| 67-66-3 | Chloroform | 49000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 49000 | U |
| 110-82-7 | Cyclohexane | 49000 | U |
| 56-23-5 | Carbon Tetrachloride | 49000 | U |
| 71-43-2 | Benzene | 230000 | |
| 107-06-2 | 1,2-Dichloroethane | 49000 | U |

0392

VOLATILE ORGANICS ANALYSIS DATA SHEET

EC160MS

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: EC155

Matrix: (soil/water) SOIL Lab Sample ID: 02061159

Sample wt/vol: 6.3 (g/mL) G Lab File ID 061159MS

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 10

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 790000 | |
| 108-87-2 | Methylcyclohexane | 49000 | U |
| 78-87-5 | 1,2-Dichloropropane | 49000 | U |
| 75-27-4 | Bromodichloromethane | 49000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 49000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 49000 | U |
| 108-88-3 | Toluene | 230000 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 49000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 49000 | U |
| 127-18-4 | Tetrachloroethene | 49000 | U |
| 591-78-6 | 2-Hexanone | 49000 | U |
| 124-48-1 | Dibromochloromethane | 49000 | U |
| 106-93-4 | 1,2-Dibromoethane | 49000 | U |
| 108-90-7 | Chlorobenzene | 240000 | |
| 100-41-4 | Ethylbenzene | 49000 | U |
| 1330-20-7 | Xylene (total) | 49000 | U |
| 100-42-5 | Styrene | 49000 | U |
| 75-25-2 | Bromoform | 49000 | U |
| 98-82-8 | Isopropylbenzene | 49000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 49000 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 49000 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 49000 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 49000 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 49000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 49000 | U |

0393

VOLATILE ORGANICS ANALYSIS DATA SHEET

E016OMSD

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 020e1159

Sample wt/vol: 6.3 (g/mL) G Lab File ID: 061159MSD

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 10

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 49000 | U |
| 74-87-3 | Chloromethane | 49000 | U |
| 75-01-4 | Vinyl Chloride | 49000 | U |
| 74-83-9 | Bromomethane | 49000 | U |
| 75-00-3 | Chloroethane | 49000 | U |
| 75-69-4 | Trichlorofluoromethane | 49000 | U |
| 75-35-4 | 1,1-Dichloroethene | 240000 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 49000 | U |
| 67-64-1 | Acetone | 49000 | U |
| 75-15-0 | Carbon Disulfide | 49000 | U |
| 79-20-9 | Methyl Acetate | 49000 | U |
| 75-09-2 | Methylene Chloride | 49000 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 49000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 49000 | U |
| 75-34-3 | 1,1-Dichloroethane | 49000 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 42000 | U |
| 78-93-3 | 2-Butanone | 49000 | U |
| 67-66-3 | Chloroform | 49000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 49000 | U |
| 110-82-7 | Cyclohexane | 49000 | U |
| 56-23-5 | Carbon Tetrachloride | 49000 | U |
| 71-43-2 | Benzene | 250000 | |
| 107-06-2 | 1,2-Dichloroethane | 49000 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET

E0160MSD

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061159

Sample wt/vol: 6.2 (g/mL) G Lab File ID: 061159MSD

Level: (low/med) MED Date Received: 06/21/02

% Moisture: not dec. 32 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 10

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 850000 | |
| 108-87-2 | Methylcyclohexane | 49000 | U |
| 78-87-5 | 1,2-Dichloropropane | 49000 | U |
| 75-27-4 | Bromodichloromethane | 49000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 49000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 49000 | U |
| 108-88-3 | Toluene | 250000 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 49000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 49000 | U |
| 127-18-4 | Tetrachloroethene | 49000 | U |
| 591-78-6 | 2-Hexanone | 49000 | U |
| 124-48-1 | Dibromochloromethane | 49000 | U |
| 106-93-4 | 1,2-Dibromoethane | 49000 | U |
| 108-90-7 | Chlorobenzene | 250000 | |
| 100-41-4 | Ethylbenzene | 49000 | U |
| 1330-20-7 | Xylene (total) | 49000 | U |
| 100-42-5 | Styrene | 49000 | U |
| 75-25-2 | Bromoform | 49000 | U |
| 98-82-8 | Isopropylbenzene | 49000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 49000 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 49000 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 49000 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 49000 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 49000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 49000 | U |

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0165

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061188

Sample wt/vol: 5.9(g/mL) G Lab File ID: H73FI744

Level: (low/med) LOW Date Received: 06/22/02

% Moisture: not dec. 17 Date Analyzed: 06/26/02

GC Column: HP-VOC ID: 0.20 (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 ~~8~~ | JB u |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 16 | B u |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 | 13 | |
| 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 |

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0165

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061188

Sample wt/vol: 5.9(g/mL) G Lab File ID: H73FI744

Level: (low/med) LOW Date Received: 06/22/02

% Moisture: not dec. 17 Date Analyzed: 06/26/02

GC Column: HP-VOC ID: 0.20 (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 | 1 | 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 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 127-18-4 | Tetrachloroethene | 1 | 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 |

1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0165

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061188

Sample wt/vol: 5.9 (g/mL) G Lab File ID: H73FI744

Level: (low/med) LOW Date Received: 06/22/02

% Moisture: not dec. 17 Date Analyzed: 06/26/02

GC Column: HP-VOC ID: 0.20 (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. | | | | |
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1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0166

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061189

Sample wt/vol: 6.2(g/mL) G Lab File ID: H73FI725

Level: (low/med) LOW Date Received: 06/22/02

% Moisture: not dec. 16 Date Analyzed: 06/25/02

GC Column: HP-VOC ID: 0.20 (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 | 480 | E |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 500 | E |
| 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 ~~4~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl Ether | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 53 | |
| 156-59-2 | cis-1,2-Dichloroethene | 9 | J |
| 78-93-3 | 2-Butanone | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 4500 | E |
| 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 | 1 | J |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0166

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061189

Sample wt/vol: 6.2(g/mL) G Lab File ID: H73FI725

Level: (low/med) LOW Date Received: 06/22/02

% Moisture: not dec. 16 Date Analyzed: 06/25/02

GC Column: HP-VOC ID: 0.20 (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 | 35 | B |
| 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 | 3 | J |
| 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

EPA SAMPLE NO.

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

E0166

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061189

Sample wt/vol: 6.2 (g/mL) G Lab File ID: H73FI725

Level: (low/med) LOW Date Received: 06/22/02

% Moisture: not dec. 16 Date Analyzed: 06/25/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

E016eDL

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061189

Sample wt/vol: 6.2 (g/mL) G Lab File ID: 061189M

Level: (low/med) MED Date Received: 06/22/02

% Moisture: not dec. 16 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (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 | 1000 | U |
| 74-87-3 | Chloromethane | 1000 | U |
| 75-01-4 | Vinyl Chloride | 1000 | U |
| 74-83-9 | Bromomethane | 1000 | U |
| 75-00-3 | Chloroethane | 1000 | U |
| 75-69-4 | Trichlorofluoromethane | 1000 | U |
| 75-35-4 | 1,1-Dichloroethene | 400 | DJ |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 2800 | D |
| 67-64-1 | Acetone | 1000 | U |
| 75-15-0 | Carbon Disulfide | 1000 | U |
| 79-20-9 | Methyl Acetate | 1000 | U |
| 75-09-2 | Methylene Chloride | 1000 ~~210~~ | BDJ LL |
| 156-60-5 | trans-1,2-Dichloroethene | 1000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 1000 | U |
| 75-34-3 | 1,1-Dichloroethane | 1000 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1000 | U |
| 78-93-3 | 2-Butanone | 1000 | U |
| 67-66-3 | Chloroform | 1000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 19000 | D |
| 110-82-7 | Cyclohexane | 1000 | U |
| 56-23-5 | Carbon Tetrachloride | 1000 | U |
| 71-43-2 | Benzene | 1000 | U |
| 107-06-2 | 1,2-Dichloroethane | 1000 | U |
| | | 920 | U |

7-17-02

0193

VOLATILE ORGANICS ANALYSIS DATA SHEET

E0166DL

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061189

Sample wt/vol: 6.2 (g/mL) G Lab File ID: 061189M

Level: (low/med) MED Date Received: 06/22/02

% Moisture: not dec. 16 Date Analyzed 06/25/02

GC Column: RTX-502.2 ID: 0.530 (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 | 140 | DJ |
| 108-87-2 | Methylcyclohexane | 1000 | U |
| 78-87-5 | 1,2-Dichloropropane | 1000 | U |
| 75-27-4 | Bromodichloromethane | 1000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1000 | U |
| 108-88-3 | Toluene | 1000 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1000 | U |
| 127-18-4 | Tetrachloroethene | 1000 | U |
| 591-78-6 | 2-Hexanone | 1000 | U |
| 124-48-1 | Dibromochloromethane | 1000 | U |
| 106-93-4 | 1,2-Dibromoethane | 1000 | U |
| 108-90-7 | Chlorobenzene | 1000 | U |
| 100-41-4 | Ethylbenzene | 1000 | U |
| 1330-20-7 | Xylene (total) | 1000 | U |
| 100-42-5 | Styrene | 1000 | U |
| 75-25-2 | Bromoform | 1000 | U |
| 98-82-8 | Isopropylbenzene | 1000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1000 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 1000 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 1000 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 1000 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1000 | U |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

E0166DL

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 02061189

Sample wt/vol: 6.2 (g/mL) G Lab File ID 061189M

Level: (low/med) MED Date Received: 06/22/02

% Moisture, not dec. 16 Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (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 |
|---|---|---|---|---|

0195

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKB2

Lab Name: ENVIROSYSTEMS Contract: 68W9F024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 0625VSBB1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0625VSBB1

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (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 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1300 | U |
| 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 | 240 | 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 |

0336

VOLATILE ORGANICS ANALYSIS DATA SHEET

VBLKB2

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 0625VSBB1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0625VSBB1

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKB2

Lab Name: ENVIROSYSTEMS Contract: 68W99024

Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: 0625VSBB1

Sample wt/vol: 5.0 (g/mL) G Lab File ID: 0625VSBB1

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 06/25/02

GC Column: RTX-502.2 ID: 0.530 (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 |
|---|---|---|---|---|
| | | | | |

0338

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFR

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0621

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FI692

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

% Moisture: not dec. _____ Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | 3 | J |
| 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 | tert-Butyl Methyl 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 |

1B

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFR

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0621

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FI692

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

% Moisture: not dec. _____ Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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 | 0.9 | J |

1F

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKFR

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0621

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FI692

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

% Moisture: not dec. _____ Date Analyzed: 06/21/02

GC Column: HP-VOC ID: 0.20 (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.

VBLKFX

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0625

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FI722

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

% Moisture: not dec. _____ Date Analyzed: 06/25/02

GC Column: HP-VOC ID: 0.20 (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 | 4 | J |
| 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 | tert-Butyl Methyl 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 |

1B

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFX

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0625

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FI722

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

% Moisture: not dec. _____ Date Analyzed: 06/25/02

GC Column: HP-VOC ID: 0.20 (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 | 2 | 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 | 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

EPA SAMPLE NO.

VBLKFX

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0625

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FI722

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

% Moisture: not dec. _____ Date Analyzed: 06/25/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | | | | |
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# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0620

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FI742

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

% Moisture: not dec. _____ Date Analyzed: 06/26/02

GC Column: HP-VOC ID: 0.20 (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 | 2 | J |
| 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 | tert-Butyl Methyl 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 |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0620

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FI742

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

% Moisture: not dec. _____ Date Analyzed: 06/26/02

GC Column: HP-VOC ID: 0.20 (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

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLKFY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VBLK0620

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FI742

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

% Moisture: not dec. _____ Date Analyzed: 06/26/02

GC Column: HP-VOC ID: 0.20 (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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# VOLATILE ORGANICS ANALYSIS DATA SHEET

VHBLKFY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK0620

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FI746

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

% Moisture: not dec. _____ Date Analyzed: 06/26/02

GC Column: HP-VOC ID: 0.20 (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 ~~8~~ | JB M |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKFY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK0620

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FI746

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

% Moisture: not dec. _____ Date Analyzed: 06/26/02

GC Column: HP-VOC ID: 0.20 (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 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VHBLKFY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99024

Lab Code: ENVSYS Case No.: 30616 SAS No.: SDG No.: E0155

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK0620

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FI746

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

% Moisture: not dec. _____ Date Analyzed: 06/26/02

GC Column: HP-VOC ID: 0.20 (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. | | | | |
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REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: EC155 CERCLIS No: ILN000508246

Case No: 30616 Site Name/Location: ELLSWORTH INDUS. PARK

Contractor or EPA Lab: ENVIROSYSTEMS Data User: IEPA

No. of Samples: 8 Date Sampled or Date Received: 7-2-02

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: 8 No. of samples received: 8

Received by: Ena M. Dixon/ESAI Date: 7-2-02

Received by LSSS: Ena M. Dixon/ESAI Date: 7-2-02

Review started: 7-17-02 Reviewer Signature: Allison Haney

Total time spent on review: 10 + 1 Date review completed: 7-23-02

Copied by: Ena M. Dixon/ESAI Date: 7-23-02

Mailed to user by: Ena M. Dixon/ESAI Date: 7-23-02

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

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. Date: ____

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**REGION V**

DATE: _____

SUBJECT: Review of Data
Received for Review on October 18, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ELSWORTH INDUSTRIAL PARK (IL)

CASE NUMBER: 31033 SDG NUMBER: E01D2

mber and Type of Samples: 19 Soils (VOAs)

Sample Numbers: E01D2 - E01D9, E01E0 - E01E9, E01F0

Laboratory: Envirosystems Hrs. for Review: _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Case Number : 31033 SDG Number: E01D2
S : Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

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

*Nineteen (19) soil* samples, numbered *E01D2* through *E01D9, E01E0* through *E01E9* and *E01F0,* were collected *October 8 - 11, 2002*. The lab received the samples *October 9 - 12, 2002* in good condition. All samples were analyzed for only the volatile list of organic analytes. All were analyzed according to CLP SOW *OLM04.2* 5/99.

Reviewed By: Allison Harvey/IITRI-ESAT
Date: October 29, 2002

Case Number : 31033 SDG Number: E01D2
S: Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

## 1. HOLDING TIME

No defects found.

## 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found.

## 3. CALIBRATION

The following volatile 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 "R".

**1,2-Dibromo-3-chloropropane**
E01E8DL, E01E8MS, E01E8MSD, E01E9, E01E9DL, VBLKBG

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**
E01E7DL, VBLKFG, VBLKFH, VHBLKFH

**Chloromethane**, **Vinyl Chloride**, **Chloroethane**
E01E7DL, VBLKFG

**1,1-Dichloroethene**, **1,1,2-Trichloro-1,2,2-trifluoroethane**, **Carbon Disulfide**, **Carbon Tetrachloride**
E01D2DL, E01D2MS, E01D2MSD, E01D3, E01D5, E01D8, E01E2, E01E3, E01E5, E01E6, E01E7, E01E8, E01F0, VBLKFC, VBLKFE, VBLKFF, VBLKFH, VHBLKFH

**Acetone**
E01E7DL, E01F0, VBLKFF, VBLKFG

**trans-1,2-Dichloroethane**, **2-Butanone**
E01F0, VBLKFF

**Cyclohexane**
E01D3, E01D5, E01D8, E01E2, E01E3, E01E5, E01E6, E01E7, E01E8, E01F0, VBLKFC, VBLKFF, VBLKFH, VHBLKFH

**Trichloroethene**, **Bromoform**
E01E8DL, E01E8MS, E01E8MSD, E01E9, E01E9DL, VBLKBG

Reviewed By: Allison Harvey/IITRI-ESAT
Date: October 29, 2002

Case Number : 31033 SDG Number: E01D2
Site Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

**2-Hexanone**
E01D2DL, E01D2MS, E01D2MSD, E01E7DL, VBLKFE, VBLKFG

The following volatile samples are associated with a continuing calibration relative response factor (RRF5) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

**1,2-Dibromo-3-chloropropane**
E01E8DL, E01E8MS, E01E8MSD, E01E9, E01E9DL, VBLKBG

The following volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. Hits and non-detects are not flagged.

**E01E7DL, VBLKFG**

## 4. BLANKS

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

**E01D2MS, E01D2MSD**
Methylene Chloride

The following volatile 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" or "UJ" and non-detects are not flagged.

**Acetone**
E01D4, E01D6, E01D7, E01D9, E01E0, E01E1, E01E7DL, VHBLKFH

**Methylene Chloride**
E01D2, E01D2DL, E01D3, E01D4, E01D5, E01D6, E01D7, E01D8, E01D9, E01E0, E01E1, E01E2, E01E3, E01E4, E01E5, E01E6, E01E7, E01E7DL, E01E8, E01E8MS, E01F0, VHBLKFH

The following volatile samples were analyzed after a highly contaminated sample and have no preceding instrument blank. The possibility of cross-contamination could not be eliminated; therefore detects for the affected analytes are qualified "J".

**cis-1,2-Dichloroethane**
E01E8

Reviewed By: Allison Harvey/IITRI-ESAT
Date: October 29, 2002

Case Number : 31033 SDG Number: E01D2
Site Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

## 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No defects found.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects found.

## 7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as field blanks or field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

## 8. INTERNAL STANDARDS

No defects found.

## 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

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

**E01D2, E01D2DL, E01D2MS, E01D2MSD**
1,1,1-Trichloroethane

**E01D3, E01D5, E01D8, E01E2, E01E3, E01E5, E01E6, E01F0**
Acetone

**E01D4, E01E1**
Tetrachloroethene

**E01E7**
Vinyl Chloride, Tetrachloroethene

**E01E7DL**
Trichloroethene, Tetrachloroethene

Reviewed By: Allison Harvey/IITRI-ESAT
Date: October 29, 2002

Case Number : 31033 SDG Number: E01D2
S. Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

**E01E8**
Vinyl Chloride, Chlorobenzene

**E01E8MS, E01E8MSD**
cis-1,2-Dichloroethane

**E01E9**
1,1,2-Trichloro-1,2,2-trifluoroethane, trans-1,2-Dichloroethane

**E01E9DL**
1,1,2-Trichloro-1,2,2-trifluoroethane

**VBLKBG, VBLKFC, VBLKFF**
Methylene Chloride

**VBLKFB, VBLKFE, VBLKFG, VBLKFH**
Acetone, Methylene Chloride

Adjusted CRQL values of the following volatile samples are less than the contract specified CRQLs. The contract specified CRQL values are used by CADRE during data validation and reported for non-tected compounds.

**E01D2, E01D3, E01D4, E01D5, E01D6, E01D7, E01D8, E01D9, E01E1, E01E2, E01E6, E01E8, E01E9**

## 11. SYSTEM PERFORMANCE

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

## 12. ADDITIONAL INFORMATION

The following volatile samples have analyte concentrations reported above the instrument's calibration range. The concentrations from the diluted analyses should be considered the affected analyte's final concentration.

**E01D2**
1,1,2-Trichloro-1,2,2-trifluoroethane

**E01E7**
cis-1,2-Dichloroethene

**E01E8**

Reviewed By: Allison Harvey/IITRI-ESAT
Date: October 29, 2002

Case Number : 31033 SDG Number: E01D2
Site Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: ENVIROSYSTEMS

1,1,2-Trichloro-1,2,2-trifluoroethane, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene

**E01E9**
Tetrachloroethene

Verification of non-detected results and assignment of "U" qualifier when the reported value is less than CRQL.

**E01D2, E01D2DL, E01D2MS, E01D2MSD, E01D3, E01D4, E01D5, E01D6, E01D7, E01D8, E01D9, E01E0, E01E1, E01E2, E01E3, E01E4, E01E5, E01E6, E01E7, E01E7DL, E01E8, E01E8DL, E01E8MS, E01E8MSD, E01E9, E01E9DL, E01F0, VBLKBG, VBLKFB, VBLKFC, VBLKFE, VBLKFF, VBLKFG, VBLKFH, VHBLKFH**

Reviewed By: Allison Harvey/IITRI-ESAT
Date: October 29, 2002

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 anlayte 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) |

## Volatile Sample Analysis
## Tentatively Identified Compounds

Sample No.: E01E5

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 31033
SDG No.: E01D2

Location: X60B
Matrix/Level: Soil/Low
File Name: E01D2

| CAS No. | Compound Name | RT | Concentration (UG/KG) | Q* |
|---|---|---|---|---|
| | UNKNOWN | 23.27 | 92 | J |

*Q: Laboratory Qualifier

## Volatile Sample Analysis
## Tentatively Identified Compounds

Sample No.: E01E6

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 31033
SDG No.: E01D2

Location: X61A
Matrix/Level: Soil/Low
File Name: E01D2

| CAS No. | Compound Name | RT | Concentration (UG/KG) | Q* |
|---|---|---|---|---|
| 556672 | CYCLOTETRASILOXANE, OCTAMETHYL- | 23.27 | 61 | NJ |

*Q: Laboratory Qualifier

## Volatile Sample Analysis
## Tentatively Identified Compounds

Sample No.: E01E7

Sample Type: Routine Sample
Lab ID: ENVSYS
Case No.: 31033
SDG No.: E01D2

Location: X62A
Matrix/Level: Soil/Low
File Name: E01D2

| CAS No. | Compound Name | RT | Concentration (UG/KG) | Q* |
|---|---|---|---|---|
| 354234 | ETHANE, 1,2-DICHLORO-1,1,2-TRIFLUORO- | 7.54 | 19 | NJ |

*Q: Laboratory Qualifier

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2

Site : ELSWORTH INDUSTRIAL PARK

Lab : ENVSYS

Number of Soil Samples : 19

Number of Water Samples : 0

viewer :

ıe :

| Sample Number : | E01D2 | | E01D2DL | | E01D2MS | | E01D2MSD | | E01D3 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X54 | | X54 | | X54 | | X54 | | X55 | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/08/2002 | | 10/08/2002 | | 10/08/2002 | | 10/08/2002 | | 10/09/2002 | |
| Time Sampled : | 16:45 | | 16:45 | | 16:45 | | 16:45 | | 09:45 | |
| %Moisture : | 12 | | 12 | | 12 | | 12 | | 11 | |
| pH : | 7.0 | | 7.0 | | 7.0 | | 7.0 | | 7.0 | |
| 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 | 57 | U | 47 | U | 57 | U | 10 | U |
| Chloromethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Vinyl Chloride | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Bromomethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Chloroethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Trichlorofluoromethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,1-Dichloroethene | 10 | U | 57 | UJ | 280 | J | 290 | J | 10 | UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 210 | | 710 | J | 720 | J | 1000 | J | 10 | UJ |
| Acetone | 10 | U | 57 | U | 47 | U | 57 | U | 4 | J |
| Carbon Disulfide | 10 | U | 57 | UJ | 47 | UJ | 57 | UJ | 10 | UJ |
| Methyl Acetate | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Methylene Chloride | 10 | U | 57 | U | 120 | U | 82 | U | 10 | U |
| trans-1,2-Dichloroethene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Methyl tert-Butyl Ether | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| ¹-Dichloroethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| ..s-1,2-Dichloroethene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 2-Butanone | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Chloroform | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,1,1-Trichloroethane | 3 | J | 11 | J | 10 | J | 14 | J | 10 | U |
| Cyclohexane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | UJ |
| Carbon Tetrachloride | 10 | U | 57 | UJ | 47 | UJ | 57 | UJ | 10 | UJ |
| Benzene | 10 | U | 57 | U | 270 | | 290 | | 10 | U |
| 1,2-Dichloroethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Trichloroethene | 10 | U | 57 | U | 270 | | 280 | | 10 | U |
| Methylcyclohexane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,2-Dichloropropane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Bromodichloromethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| cis-1,3-Dichloropropene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 4-Methyl-2-pentanone | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Toluene | 10 | U | 57 | U | 290 | | 330 | | 10 | U |
| trans-1,3-Dichloropropene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,1,2-Trichloroethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Tetrachloroethene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E01D2 | | E01D2DL | | E01D2MS | | E01D2MSD | | E01D3 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X54 | | X54 | | X54 | | X54 | | X55 | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/08/2002 | | 10/08/2002 | | 10/08/2002 | | 10/08/2002 | | 10/09/2002 | |
| Time Sampled : | 16:45 | | 16:45 | | 16:45 | | 16:45 | | 09:45 | |
| %Moisture : | 12 | | 12 | | 12 | | 12 | | 11 | |
| pH : | 7.0 | | 7.0 | | 7.0 | | 7.0 | | 7.0 | |
| 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 | U | 57 | UJ | 47 | UJ | 57 | UJ | 10 | U |
| Dibromochloromethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,2-Dibromoethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Chlorobenzene | 10 | U | 57 | U | 290 | | 310 | | 10 | U |
| Ethylbenzene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Xylenes (total) | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Styrene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Bromoform | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| Isopropylbenzene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,1,2,2-Tetrachloroethane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,3-Dichlorobenzene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,4-Dichlorobenzene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,2-Dichlorobenzene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,2-Dibromo-3-chloropropane | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |
| 1,4-Trichlorobenzene | 10 | U | 57 | U | 47 | U | 57 | U | 10 | U |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
iewer :
ate :

| Sample Number | E01D4 | | E01D5 | | E01D6 | | E01D7 | | E01D8 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location | X56A | | X56B | | X57 | | X58A | | X58B | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/09/2002 | | 10/09/2002 | | 10/09/2002 | | 10/09/2002 | | 10/09/2002 | |
| Time Sampled : | 12:00 | | 12:15 | | 13:45 | | 16:15 | | 16:30 | |
| %Moisture : | 13 | | 13 | | 11 | | 12 | | 14 | |
| pH : | 7.0 | | 7.0 | | 7.0 | | 7.0 | | 7.0 | |
| 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 | 10 | U | 10 | U | 10 | U |
| 1,1-Dichloroethene | 10 | U | 10 | UJ | 10 | U | 10 | U | 10 | UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | U | 10 | UJ | 10 | U | 10 | U | 10 | UJ |
| Acetone | 10 | U | 4 | J | 10 | U | 10 | U | 3 | J |
| Carbon Disulfide | 10 | U | 10 | UJ | 10 | U | 10 | U | 10 | UJ |
| Methyl Acetate | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Methylene Chloride | 10 | U | 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-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 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 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 | UJ | 10 | U | 10 | U | 10 | UJ |
| Carbon Tetrachloride | 10 | U | 10 | UJ | 10 | U | 10 | U | 10 | UJ |
| Benzene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-Dichloroethane | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Trichloroethene | 10 | U | 10 | U | 10 | U | 10 | U | 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 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Toluene | 10 | U | 10 | U | 10 | U | 10 | U | 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 | 3 | J | 10 | U | 10 | U | 10 | U | 10 | U |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
viewer :
ate :

| Sample Number : | E01D4 | | E01D5 | | E01D6 | | E01D7 | | E01D8 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X56A | | X56B | | X57 | | X58A | | X58B | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/09/2002 | | 10/09/2002 | | 10/09/2002 | | 10/09/2002 | | 10/09/2002 | |
| Time Sampled : | 12:00 | | 12:15 | | 13:45 | | 16:15 | | 16:30 | |
| %Moisture : | 13 | | 13 | | 11 | | 12 | | 14 | |
| pH : | 7.0 | | 7.0 | | 7.0 | | 7.0 | | 7.0 | |
| 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 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 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 | 10 | U | 10 | U | 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 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 2,4-Trichlorobenzene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E01D9 | | E01E0 | | E01E1 | | E01E2 | | E01E3 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X160 | | X60A | | X59A | | X59B | | X61C | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/10/2002 | | 10/10/2002 | | 10/10/2002 | | 10/10/2002 | | 10/10/2002 | |
| Time Sampled : | 11:55 | | 11:55 | | 09:45 | | 10:00 | | 14:45 | |
| %Moisture : | 13 | | 13 | | 16 | | 13 | | 16 | |
| pH : | 7.0 | | 7.0 | | 7.0 | | 7.0 | | 7.0 | |
| 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 | 10 | U | 10 | U | 10 | U |
| 1,1-Dichloroethene | 10 | U | 10 | U | 10 | U | 10 | UJ | 10 | UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | U | 10 | U | 10 | U | 10 | UJ | 10 | UJ |
| Acetone | 10 | U | 10 | U | 10 | U | 3 | J | 4 | J |
| Carbon Disulfide | 10 | U | 10 | U | 10 | U | 10 | UJ | 10 | UJ |
| Methyl Acetate | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Methylene Chloride | 10 | U | 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-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 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 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 | UJ | 10 | UJ |
| Carbon Tetrachloride | 10 | U | 10 | U | 10 | U | 10 | UJ | 10 | UJ |
| Benzene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-Dichloroethane | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Trichloroethene | 10 | U | 10 | U | 10 | U | 10 | U | 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 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Toluene | 10 | U | 10 | U | 10 | U | 10 | U | 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 | 10 | U | 10 | U | 4 | J | 10 | U | 10 | U |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E01D9 | | E01E0 | | E01E1 | | E01E2 | | E01E3 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X160 | | X60A | | X59A | | X59B | | X61C | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/10/2002 | | 10/10/2002 | | 10/10/2002 | | 10/10/2002 | | 10/10/2002 | |
| Time Sampled : | 11:55 | | 11:55 | | 09:45 | | 10:00 | | 14:45 | |
| %Moisture : | 13 | | 13 | | 16 | | 13 | | 16 | |
| pH : | 7.0 | | 7.0 | | 7.0 | | 7.0 | | 7.0 | |
| 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 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 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 | 10 | U | 10 | U | 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 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab : ENVSYS
Reviewer :
Date :

| Sample Number : | E01E4 | | E01E5 | | E01E6 | | E01E7 | | E01E7DL | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X61B | | X60B | | X61A | | X62A | | X62A | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/10/2002 | | 10/10/2002 | | 10/10/2002 | | 10/11/2002 | | 10/11/2002 | |
| Time Sampled : | 14:30 | | 12:10 | | 14:15 | | 09:35 | | 09:35 | |
| %Moisture : | 15 | | 16 | | 16 | | 16 | | 16 | |
| pH : | 7.0 | | 7.0 | | 7.0 | | 7.0 | | 7.0 | |
| 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 | 37 | UJ |
| Chloromethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | UJ |
| Vinyl Chloride | 10 | U | 10 | U | 10 | U | 2 | J | 37 | UJ |
| Bromomethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Chloroethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | UJ |
| Trichlorofluoromethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,1-Dichloroethene | 10 | U | 10 | UJ | 10 | UJ | 10 | UJ | 37 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | U | 10 | UJ | 10 | UJ | 120 | J | 120 | |
| Acetone | 10 | U | 5 | J | 2 | J | 10 | U | 37 | UJ |
| Carbon Disulfide | 10 | U | 10 | UJ | 10 | UJ | 10 | UJ | 37 | U |
| Methyl Acetate | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Methylene Chloride | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| trans-1,2-Dichloroethene | 10 | U | 10 | U | 10 | U | 21 | | 48 | |
| Methyl tert-Butyl Ether | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| ,1-Dichloroethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| cis-1,2-Dichloroethene | 10 | U | 10 | U | 10 | U | 290 | | 490 | |
| 2-Butanone | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Chloroform | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,1,1-Trichloroethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Cyclohexane | 10 | U | 10 | UJ | 10 | UJ | 10 | UJ | 37 | U |
| Carbon Tetrachloride | 10 | U | 10 | UJ | 10 | UJ | 10 | UJ | 37 | U |
| Benzene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,2-Dichloroethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Trichloroethene | 10 | U | 10 | U | 10 | U | 17 | | 15 | J |
| Methylcyclohexane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,2-Dichloropropane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Bromodichloromethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| cis-1,3-Dichloropropene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 4-Methyl-2-pentanone | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Toluene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| trans-1,3-Dichloropropene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,1,2-Trichloroethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Tetrachloroethene | 10 | U | 10 | U | 10 | U | 9 | J | 9 | J |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E01E4 | | E01E5 | | E01E6 | | E01E7 | | E01E7DL | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X61B | | X60B | | X61A | | X62A | | X62A | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/10/2002 | | 10/10/2002 | | 10/10/2002 | | 10/11/2002 | | 10/11/2002 | |
| Time Sampled : | 14:30 | | 12:10 | | 14:15 | | 09:35 | | 09:35 | |
| %Moisture : | 15 | | 16 | | 16 | | 16 | | 16 | |
| pH : | 7.0 | | 7.0 | | 7.0 | | 7.0 | | 7.0 | |
| 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 | U | 10 | U | 10 | U | 10 | U | 37 | UJ |
| Dibromochloromethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,2-Dibromoethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Chlorobenzene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Ethylbenzene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Xylenes (total) | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Styrene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Bromoform | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| Isopropylbenzene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,3-Dichlorobenzene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,4-Dichlorobenzene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,2-Dichlorobenzene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 1,2-Dibromo-3-chloropropane | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |
| 2,4-Trichlorobenzene | 10 | U | 10 | U | 10 | U | 10 | U | 37 | U |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
viewer :
ate :

| Sample Number : | E01E8 | | E01E8DL | | E01E8MS | | E01E8MSD | | E01E9 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X62B | | X62B | | X62B | | X62B | | X63A | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/11/2002 | | 10/11/2002 | | 10/11/2002 | | 10/11/2002 | | 10/11/2002 | |
| Time Sampled : | 09:40 | | 09:40 | | 09:40 | | 09:40 | | 11:10 | |
| %Moisture : | 11 | | 11 | | 11 | | 11 | | 15 | |
| pH : | 7.0 | | | | | | | | | |
| 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 | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Chloromethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Vinyl Chloride | 4 | J | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Bromomethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Chloroethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Trichlorofluoromethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1,1-Dichloroethene | 10 | UJ | 3800 | U | 19000 | | 20000 | | 1300 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1100 | J | 15000 | | 12000 | | 12000 | | 370 | J |
| Acetone | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1700 | |
| Carbon Disulfide | 10 | UJ | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Methyl Acetate | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Methylene Chloride | 10 | U | 3800 | U | 3800 | U | 3800 | U | 4700 | |
| trans-1,2-Dichloroethene | 17 | | 3800 | U | 3800 | U | 3800 | U | 130 | J |
| Methyl tert-Butyl Ether | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1-Dichloroethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| s-1,2-Dichloroethene | 1200 | J | 3900 | | 3200 | J | 3200 | J | 5800 | |
| 2-Butanone | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Chloroform | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1,1,1-Trichloroethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Cyclohexane | 10 | UJ | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Carbon Tetrachloride | 10 | UJ | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Benzene | 10 | U | 3800 | U | 18000 | | 19000 | | 1300 | U |
| 1,2-Dichloroethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Trichloroethene | 1500 | | 5700 | J | 25000 | J | 23000 | J | 13000 | J |
| Methylcyclohexane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1,2-Dichloropropane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Bromodichloromethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| cis-1,3-Dichloropropene | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 4-Methyl-2-pentanone | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Toluene | 10 | U | 3800 | U | 19000 | | 20000 | | 1300 | U |
| trans-1,3-Dichloropropene | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1,1,2-Trichloroethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Tetrachloroethene | 7000 | | 58000 | | 41000 | | 41000 | | 58000 | |

**Analytical Results** (Qualified Data)

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E01E8 | | E01E8DL | | E01E8MS | | E01E8MSD | | E01E9 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X62B | | X62B | | X62B | | X62B | | X63A | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/11/2002 | | 10/11/2002 | | 10/11/2002 | | 10/11/2002 | | 10/11/2002 | |
| Time Sampled : | 09:40 | | 09:40 | | 09:40 | | 09:40 | | 11:10 | |
| %Moisture : | 11 | | 11 | | 11 | | 11 | | 15 | |
| pH : | 7.0 | | | | | | | | | |
| 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 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Dibromochloromethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1,2-Dibromoethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Chlorobenzene | 0.9 | J | 3800 | U | 18000 | | 19000 | | 1300 | U |
| Ethylbenzene | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Xylenes (total) | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Styrene | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| Bromoform | 10 | U | 3800 | UJ | 3800 | UJ | 3800 | UJ | 1300 | UJ |
| Isopropylbenzene | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1,1,2,2-Tetrachloroethane | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1,3-Dichlorobenzene | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1,4-Dichlorobenzene | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1,2-Dichlorobenzene | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |
| 1,2-Dibromo-3-chloropropane | 10 | U | 3800 | R | 3800 | R | 3800 | R | 1300 | R |
| 1,2,4-Trichlorobenzene | 10 | U | 3800 | U | 3800 | U | 3800 | U | 1300 | U |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
viewer :
Date :

| Sample Number : | E01E9DL | | E01F0 | | VBLKBG | | VBLKFB | | VBLKFC | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X63A | | X63B | | | | | | | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/11/2002 | | 10/11/2002 | | | | | | | |
| Time Sampled : | 11:10 | | 11:15 | | | | | | | |
| %Moisture : | 15 | | 17 | | N/A | | N/A | | N/A | |
| pH : | | | 7.0 | | | | | | | |
| 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 | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Chloromethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Vinyl Chloride | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Bromomethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Chloroethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Trichlorofluoromethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,1-Dichloroethene | 4000 | U | 10 | UJ | 1300 | U | 10 | U | 10 | UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 390 | J | 10 | UJ | 1300 | U | 10 | U | 10 | UJ |
| Acetone | 4000 | U | 6 | J | 1300 | U | 2 | J | 10 | U |
| Carbon Disulfide | 4000 | U | 10 | UJ | 1300 | U | 10 | U | 10 | UJ |
| Methyl Acetate | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Methylene Chloride | 6300 | | 10 | U | 150 | J | 2 | J | 2 | J |
| trans-1,2-Dichloroethene | 4000 | U | 10 | UJ | 1300 | U | 10 | U | 10 | U |
| Methyl tert-Butyl Ether | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1-Dichloroethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| cis-1,2-Dichloroethene | 7100 | | 10 | U | 1300 | U | 10 | U | 10 | U |
| 2-Butanone | 4000 | U | 10 | UJ | 1300 | U | 10 | U | 10 | U |
| Chloroform | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,1,1-Trichloroethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Cyclohexane | 4000 | U | 10 | UJ | 1300 | U | 10 | U | 10 | UJ |
| Carbon Tetrachloride | 4000 | U | 10 | UJ | 1300 | U | 10 | U | 10 | UJ |
| Benzene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,2-Dichloroethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Trichloroethene | 15000 | J | 10 | U | 1300 | UJ | 10 | U | 10 | U |
| Methylcyclohexane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,2-Dichloropropane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Bromodichloromethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| cis-1,3-Dichloropropene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 4-Methyl-2-pentanone | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Toluene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| trans-1,3-Dichloropropene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,1,2-Trichloroethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Tetrachloroethene | 74000 | | 10 | U | 1300 | U | 10 | U | 10 | U |

**Analytical Results** (Qualified Data)

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | E01E9DL | | E01F0 | | VBLKBG | | VBLKFB | | VBLKFC | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | X63A | | X63B | | | | | | | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/11/2002 | | 10/11/2002 | | | | | | | |
| Time Sampled : | 11:10 | | 11:15 | | | | | | | |
| %Moisture : | 15 | | 17 | | N/A | | N/A | | N/A | |
| pH : | | | 7.0 | | | | | | | |
| 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 | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Dibromochloromethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,2-Dibromoethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Chlorobenzene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Ethylbenzene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Xylenes (total) | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Styrene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| Bromoform | 4000 | UJ | 10 | U | 1300 | UJ | 10 | U | 10 | U |
| Isopropylbenzene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,1,2,2-Tetrachloroethane | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,3-Dichlorobenzene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,4-Dichlorobenzene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,2-Dichlorobenzene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |
| 1,2-Dibromo-3-chloropropane | 4000 | R | 10 | U | 1300 | R | 10 | U | 10 | U |
| 1,2,4-Trichlorobenzene | 4000 | U | 10 | U | 1300 | U | 10 | U | 10 | U |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
viewer :
ate :

| Sample Number : | VBLKFE | | VBLKFF | | VBLKFG | | VBLKFH | | VHBLKFH | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | 0 | |
| pH : | | | | | | | | | 7.0 | |
| 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 | UJ | 10 | UJ | 10 | UJ |
| Chloromethane | 10 | U | 10 | U | 10 | UJ | 10 | U | 10 | U |
| Vinyl Chloride | 10 | U | 10 | U | 10 | UJ | 10 | U | 10 | U |
| Bromomethane | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Chloroethane | 10 | U | 10 | U | 10 | UJ | 10 | U | 10 | U |
| Trichlorofluoromethane | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,1-Dichloroethene | 10 | UJ | 10 | UJ | 10 | U | 10 | UJ | 10 | UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 10 | UJ | 10 | UJ | 10 | U | 10 | UJ | 10 | UJ |
| Acetone | 3 | J | 10 | UJ | 2 | J | 2 | J | 10 | U |
| Carbon Disulfide | 10 | UJ | 10 | UJ | 10 | U | 10 | UJ | 10 | UJ |
| Methyl Acetate | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Methylene Chloride | 4 | J | 2 | J | 3 | J | 2 | J | 10 | U |
| trans-1,2-Dichloroethene | 10 | U | 10 | UJ | 10 | U | 10 | U | 10 | U |
| Methyl tert-Butyl Ether | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 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 | U | 10 | UJ | 10 | U | 10 | U | 10 | U |
| 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 | UJ | 10 | U | 10 | UJ | 10 | UJ |
| Carbon Tetrachloride | 10 | UJ | 10 | UJ | 10 | U | 10 | UJ | 10 | UJ |
| Benzene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2-Dichloroethane | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Trichloroethene | 10 | U | 10 | U | 10 | U | 10 | U | 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 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Toluene | 10 | U | 10 | U | 10 | U | 10 | U | 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 | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |

**Analytical Results (Qualified Data)**

Case #: 31033 SDG : E01D2
Site : ELSWORTH INDUSTRIAL PARK
Lab. : ENVSYS
Reviewer :
Date :

| Sample Number : | VBLKFE | | VBLKFF | | VBLKFG | | VBLKFH | | VHBLKFH | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | 0 | |
| pH : | | | | | | | | | 7.0 | |
| 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 | U | 10 | UJ | 10 | U | 10 | U |
| 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 | 10 | U | 10 | U | 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 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 10-18-02

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ELSWORTH INDUSTRIAL PARK (IL)

CASE NUMBER: 31033 SDG NUMBER: E01D2

Number and Type of Samples: 19 (SOIL)

Sample Numbers: E01D2-9, E01E0-9, E01F0

Laboratory: ENVIROSYSTEMS Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

Contract Laboratory Program

# Sample Delivery Group (SDG)
# Traffic Report (TR) Cover Sheet

Laboratory Name Envirosystems, Inc. Laboratory Code ENVSYS

Contract No. 68-W-99-022 Case No. 31033

Analysis Price $449.98 per sample (FTCL) SDG Turnaround 7 Days

EPA Sample Numbers in SGD (Listed in Numerical Order)

| | | | |
|---|---|---|---|
| 1) E01D2 | 7) E01D8 | 13) E01E4 | 19) E01E0 |
| 2) E01D3 | 8) E01D9 | 14) E01E5 | 18) |
| 3) E01D4 | 9) E01E0 | 15) E01E6 | 19) |
| 4) E01D5 | 10) E01E1 | 16) E01E7 | 20) |
| 5) E01D6 | 11) E01E2 | 17) E01E8 | 21) |
| 6) E01D7 | 12) E01E3 | 18) E01E9 | 22) |

E01D2

SDG No./First Sample in SDG

E01E0

Last Sample in SDG

10 9 02

First Sample Receipt Date

10/12/02

Last Sample Receipt Date

*Note: There are a maximum of 20 field samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature Barbara Crook Date 10/9/02

# USEPA Contract Laboratory Program
# Organic Traffic Report

| | |
|---|---|
| Case No: | 31033 |
| DAS No: | |
| SDG No: | EC1D2 |

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| | | | |
|---|---|---|---|
| Date Shipped: 10/8/02 | Date Received/Received by: 10/9/02 Darlana Crook | Sampler (Signature): James M. Salch | |
| Carrier Name: UPS | Lab Contract No: 68W0990322 Unit Price: | Relinquished By: James M. Salch | Date / Time: 10/8/02 18:00 | Received By: |
| Airbill: 1Z6215892210021770 | Transfer To: | Relinquished By: | Date / Time: | Received By: |
| Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330 | Date Received/Received By: | Relinquished By: | Date / Time: 10/9/02 10:30 | Received By: Darlana Crook |
| | Lab Contract No: Price: | | | |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E01D2 | Soil/Sediment/ Jim Salch | L/G | VOA (21) | 5-066600 (Ice Only) (1) | X54 | 10/8/02 16:45 | | |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: E01D2 | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 3°C | Chain of Custody Seal Number: 22617 |
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? Y Shipment Iced? Y |

PR provides p inary results. Requests for preliminary resuls will increase analytical costs.
Send Copy to. tract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, 0191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-224206854-100802-0001

# USEPA Contract Laboratory Program
# Generic Chain of Custody

**Reference Case:** 31033
Client No:
**SDG No:** [illegible]

L

| | | | |
|---|---|---|---|
| Date Shipped: 10/8/02<br>Carrier Name: UPS<br>Airbill: 1Z62158922100217<br>Shipped to: Envirosystems, Inc.<br>9200 Rumsey Rd.<br>Suite B102<br>Columbia MD 21045<br>(410) 964-0330 | Date Received/Received by: 10/9/02 [illegible]<br>Lab Contract No: [illegible] Unit Price:<br>Transfer To:<br>Date Received/Received By:<br>Lab Contract No: Price: | Sampler (Signature): James M. Salch<br>Relinquished By: James M. Salch | Date / Time: 10/8/02 18:00 | Received By: |
| | | Relinquished By: | Date / Time: | Received By: |
| | | Relinquished By: | Date / Time: 10/9/02 10:30 | Received By: [illegible] |

| SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| X54 | Soil/Sediment/ Jim Salch | L/G | DW (21) | 5-66601 (Ice Only) (1) | X54 | 10/8/02 16:45 | | |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 3°C | Chain of Custody Seal Number: 22617 |
| Analysis Key: DW = Dry Weight | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact?_ Shipment Iced?_ |

PR provides p[illegible]inary results. Requests for preliminary results will increase analytical costs.
Send Copy to: [illegible]tract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, [illegible]0191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: [illegible]

# USEPA Contract Laboratory Program
# Organic Traffic Report

| | |
|---|---|
| Case No: | 31033 |
| DAS No: | |
| SDG No: | E01D2 |

L

| | | | |
|---|---|---|---|
| Date Shipped: 10/9/02 | Date Received/Received by: 10/10/02 Darlena Crook | Sampler (Signature): James M. Salch | |
| Carrier Name: UPS | Lab Contract No: 68W9902 Unit Price: | Relinquished By: James M. Salch | Date / Time: 10/9/02 17:00 | Received By: |
| Airbill: 1Z6215892210021789 | Transfer To: | Relinquished By: | Date / Time: | Received By: |
| Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330 | Date Received/Received By: | Relinquished By: | Date / Time: 10/10/02 11:00 | Received By: Darlena Crook |
| | Lab Contract No: Price: | | | |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E01D3 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66602, 5-66603 (2) | X55 | 10/9/02 9:45 | | |
| E01D4 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66604, 5-66605 (2) | X56A | 10/9/02 12:00 | | |
| E01D5 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66606, 5-66607 (2) | X56B | 10/9/02 12:15 | | |
| E01D6 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66608, 5-66609 (2) | X57 | 10/9/02 13:45 | | |
| E01D7 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66610, 5-66611 (2) | X58A | 10/9/02 16:15 | | |
| E01D8 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66612, 5-66613 (2) | X58B | 10/9/02 16:30 | | |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 3°C | Chain of Custody Seal Number: 22618 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? ✓ Shipment Iced? ✓ |
| Dry Wt. = Dry Weight., VOA = CLP TCL Volatiles | | | | |

PR provides p[illegible]inary results. Requests for preliminary resuls will increase analytical costs.
Send Copy to [illegible]tract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, [illegible]/0191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5 324306854 100902 0001

# USEPA Contract Laboratory Program
# Organic Traffic Report

Case No: 31033
DAS No:
SDG No: E01D2

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|---|---|---|
| Date Shipped: 10/10/02<br>Carrier Name: UPS<br>Airbill: 1z6215892210021798<br>Shipped to: Envirosystems, Inc.<br>9200 Rumsey Rd.<br>Suite B102<br>Columbia MD 21045<br>(410) 964-0330 | Date Received/Received by: 10/11/02 [illegible]<br>Lab Contract No: 68C99022 Unit Price:<br>Transfer To:<br>Date Received/Received By:<br>Lab Contract No: Price: | Sampler (Signature): [illegible]<br>Relinquished By: [illegible] Date / Time: 10/10/02 16:15 Received By:<br>Relinquished By: Date / Time: Received By:<br>Relinquished By: Date / Time: Received By: [illegible] |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E01D9 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66614, 5-66615 (2) | X160 | 10/10/02 11:55 | | |
| E01E0 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66616, 5-66617 (2) | X60A | 10/10/02 11:55 | | |
| E01E1 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66618, 5-66619 (2) | X59A | 10/10/02 9:45 | | |
| E01E2 | Soil/Sediment | /G | Dry Wt. (7), VOA (7) | 5-66620, 5-66621 (2) | X59B | 10/10/02 10:00 | | |
| E01E3 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66622, 5-66623 (2) | X61C | 10/10/02 14:45 | | |
| E01E4 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66624, 5-66625 (2) | X61B | 10/10/02 14:30 | | |
| E01E5 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66626, 5-66627 (2) | X60B | 10/10/02 12:10 | | |
| E01E6 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66628, 5-66629 (2) | X61A | 10/10/02 14:15 | | |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 4°C | Chain of Custody Seal Number: 22619 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? ✓ Shipment Iced? ✓ |
| Dry Wt. = Dry Weight., VOA = CLP TCL Volatiles | | | | |

PR provides p[illegible]inary results. Requests for preliminary results will increase analytical costs.
Send Copy to. [illegible]ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, [illegible]20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5 324306854 101002 0001

# USEPA Contract Laboratory Program
# Organic Traffic Report

Case No: 31033
DAS No:
SDG No: E01D2

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|---|---|---|---|
| Date Shipped: 10/11/02<br>Carrier Name: UPS<br>Airbill: 1z6215892210021805<br>Shipped to: Envirosystems, Inc. 9200 Rumsey Rd. Suite B102 Columbia MD 21045 (410) 964-0330 | Date Received/Received by: 10/12/02<br>Lab Contract No: 68W0022 Unit Price:<br>Transfer To:<br>Date Received/Received By:<br>Lab Contract No: Price: | Sampler (Signature): James M. Salch<br>Relinquished By: James M. Salch Date / Time: 10/12/02 15:00<br>Relinquished By: Date / Time:<br>Relinquished By: Date / Time: | Received By:<br>Received By:<br>Received By: |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E01E7 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66630, 5-66631 (2) | X62A | 10/11/02 9:35 | | |
| E01E8 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66632, 5-66633 (2) | X62B | 10/11/02 9:40 | | |
| E01E9 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66634, 5-66635 (2) | X63A | 10/11/02 11:10 | | |
| E01F0 | Soil/Sediment/ Jim Salch | L/G | Dry Wt. (7), VOA (7) | 5-66636, 5-66637 (2) | X63B | 10/11/02 11:15 | | |

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|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 6°C | Chain of Custody Seal Number: 22620 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? ✓ Shipment Iced? ✓ |
| Dry Wt. = Dry Weight., VOA = CLP TCL Volatiles | | | | |

PR provides r minary results. Requests for preliminary resuls will increase analytical costs.
Send Copy to ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5 32430695A 101402 0001

# SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

CASE #: 31033 SDG #: E01D2 REGION: V

CONTRACT: 68-W9-9022

DATES SAMPLES RECEIVED AT LABORATORY: 9 - 12 OCTOBER 2002

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

| EPA SAMPLE # | LAB ID # | ANALYSIS | MATRIX |
|---|---|---|---|
| E01D2 | 02102091 | VOA | SOIL |
| E01D2DL | 02102091 | VOA | SOIL |
| E01D3 | 02102101 | VOA | SOIL |
| E01D4 | 02102102 | VOA | SOIL |
| E01D5 | 02102103 | VOA | SOIL |
| E01D6 | 02102104 | VOA | SOIL |
| E01D7 | 02102105 | VOA | SOIL |
| E01D8 | 02102106 | VOA | SOIL |
| E01D9 | 02102113 | VOA | SOIL |
| E01E0 | 02102114 | VOA | SOIL |
| E01E1 | 02102115 | VOA | SOIL |
| E01E2 | 02102116 | VOA | SOIL |
| E01E3 | 02102117 | VOA | SOIL |
| E01E4 | 02102118 | VOA | SOIL |
| E01E5 | 02102119 | VOA | SOIL |
| E01E6 | 02102120 | VOA | SOIL |
| E01E7 | 02102137 | VOA | SOIL |
| E01E7DL | 02102137 | VOA | SOIL |
| E01E8 | 02102138 | VOA | SOIL |
| E01E8DL | 02102138 | VOA | SOIL |
| E01E9 | 02102139 | VOA | SOIL |
| E01E9DL | 02102139 | VOA | SOIL |
| E01F0 | 02102140 | VOA | SOIL |

Matrix spike/matrix spike duplicate (MS/MSD) analysis was performed on sample E01D2 for low soil and sample E01E8 for medium level soil.

Samples for this contract are analyzed by EPA SOW OLM04.2 for multi-media multi-concentration organics.

The cooler temperature blanks were measured to be within the acceptable range.

Samples E01E8 and E01E9 required medium level analyses due to high concentrations of target compounds.

The low soil volatile analysis was performed on a Hewlet Packard 5973 MSD using a Restek RTX-624 60 meter column with an inner diameter of 0.25mm and a 1.4 micron film thickness. The trap used with the autosampler is a 30 cm OI #10 analytical trap packed with Tenax/silica gel/cms.

The medium level soil volatile analysis was performed on a Finnigan 5100 GC\MS using a Restek RTX-502.2 column with an inner diameter of 0.53 mm and a 3 micron film thickness. The trap used with the autosampler is a 30 cm Supelco, Inc. K Trap (VOCARB 3000) packed with Carbopack B/Carboxen 1000 & 1001.

All QC criteria were met for all samples in this SDG.

Each of the ten MS/MSD recoveries and each of the five MS/MSD RPD values were within the EPA advisory QC limits for both low level and medium level soil.

Manual integrations wre performed in the following samples and/or standards due to poor peak shape, coelution and/or low response: VSTD010F5, VSTD050F5, VSTD200F5 and VSTD050FG.

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 IS/HER DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

DATE: 10/17/02

William Brewington
Organics Section Manager

17 October 2002

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Level:(low/med) LOW

| | EPA SAMPLE NO. | SMC1 (TOL) # | SMC2 (BFB) # | SMC3 (DCE) # | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | VBLKFB | 96 | 80 | 86 | | 0 |
| 02 | E01D2 | 93 | 80 | 85 | | 0 |
| 03 | E01D4 | 87 | 78 | 87 | | 0 |
| 04 | E01D6 | 91 | 74 | 84 | | 0 |
| 05 | E01D7 | 98 | 66 | 87 | | 0 |
| 06 | E01D9 | 91 | 73 | 89 | | 0 |
| 07 | E01E0 | 94 | 71 | 85 | | 0 |
| 08 | E01E1 | 91 | 79 | 87 | | 0 |
| 09 | E01E4 | 96 | 69 | 84 | | 0 |
| 10 | VBLKFC | 102 | 94 | 98 | | 0 |
| 11 | E01E5 | 127 | 77 | 94 | | 0 |
| 12 | E01E6 | 102 | 98 | 98 | | 0 |
| 13 | E01D3 | 115 | 71 | 98 | | 0 |
| 14 | E01D5 | 125 | 64 | 95 | | 0 |
| 15 | E01D8 | 121 | 67 | 95 | | 0 |
| 16 | E01E2 | 98 | 89 | 98 | | 0 |
| 17 | E01E3 | 127 | 65 | 92 | | 0 |
| 18 | E01E7 | 104 | 75 | 94 | | 0 |
| 19 | E01E8 | 113 | 63 | 89 | | 0 |
| 20 | VBLKFE | 104 | 94 | 94 | | 0 |
| 21 | E01D2MS | 104 | 79 | 104 | | 0 |
| 22 | E01D2MSD | 104 | 78 | 100 | | 0 |
| 23 | E01D2DL | 111 | 75 | 96 | | 0 |
| 24 | VBLKFF | 96 | 86 | 100 | | 0 |
| 25 | E01F0 | 116 | 65 | 94 | | 0 |
| 26 | VBLKFG | 104 | 94 | 112 | | 0 |
| 27 | E01E7DL | 121 | 74 | 116 | | 0 |
| 28 | VBLKFH | 88 | 86 | 86 | | 0 |
| 29 | VHBLKFH | 88 | 86 | 84 | | 0 |
| 30 | | | | | | |

| | | 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: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Level: (low/med) MED

| | EPA SAMPLE NO. | SMC1 (TOL)# | SMC2 (BFB)# | SMC3 (DCE)# | OTHER | TOT OUT |
|---|---|---|---|---|---|---|
| 01 | E01E8DL | 103 | 86 | 104 | 0 | 0 |
| 02 | E01E9 | 102 | 91 | 113 | 0 | 0 |
| 03 | E01E9DL | 104 | 89 | 103 | 0 | 0 |
| 04 | VIBLKB2 | 105 | 90 | 104 | 0 | 0 |
| 05 | E01E8MS | 102 | 88 | 106 | 0 | 0 |
| 06 | E01E8MSD | 102 | 88 | 104 | 0 | 0 |
| 07 | VBLKBG | 106 | 84 | 101 | 0 | 0 |

| | | 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

014



FORM II VOA-2

OLM04.2

3B

# SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix Spike - EPA Sample No.: E01D2 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 | 240 | 0.0 | 280 | 117 | 59-172 |
| Trichloroethene | 240 | 0.0 | 270 | 113 | 62-137 |
| Benzene | 240 | 0.0 | 270 | 113 | 66-142 |
| Toluene | 240 | 0.0 | 290 | 121 | 59-139 |
| Chlorobenzene | 240 | 0.0 | 290 | 121 | 60-133 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 270 | 290 | 107 | 9 | 22 | 59-172 |
| Trichloroethene | 270 | 280 | 104 | 8 | 24 | 62-137 |
| Benzene | 270 | 290 | 107 | 5 | 21 | 66-142 |
| Toluene | 270 | 330 | 122 | 1 | 21 | 59-139 |
| Chlorobenzene | 270 | 310 | 115 | 5 | 21 | 60-133 |

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

* Values outside of QC limits

RPD: 0 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: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix Spike - EPA Sample No.: E01E8DL 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 | 18400 | 0 | 18750 | 102 | 59-172 |
| Trichloroethene | 18400 | 5700 | 24640 | 103 | 62-137 |
| Benzene | 18400 | 0 | 18460 | 100 | 66-142 |
| Toluene | 18400 | 0 | 19260 | 105 | 59-139 |
| Chlorobenzene | 18400 | 0 | 17990 | 98 | 60-133 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 18400 | 19680 | 107 | 5 | 22 | 59-172 |
| Trichloroethene | 18400 | 22930 | 94 | 9 | 24 | 62-137 |
| Benzene | 18400 | 18730 | 102 | 2 | 21 | 66-142 |
| Toluene | 18400 | 20040 | 109 | 4 | 21 | 59-139 |
| Chlorobenzene | 18400 | 18560 | 101 | 3 | 21 | 60-133 |

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

* Values outside of QC limits

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

COMMENTS: 02102138 E01E8DL CASE 31033 SDG E01D2 10/12 25UL/5ML ML F5100B 35(5)/240/10 WB

4A

# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKBG

Lab Name: ENVIROSYSTEMS Contract: 68W99022

L Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Lab File ID: 1016VSBB1 Lab Sample ID: 1016VSBB1

Date Analyzed: 10/16/02 Time Analyzed: 1009

GC Column: RTX-502.2 ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: F5100B

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E01E8DL | 02102138 | 102138MD | 1156 |
| 02 | E01E9 | 02103139 | 102139M | 1231 |
| 03 | E01E9DL | 02103139 | 102139MD | 1339 |
| 04 | VIBLKB2 | 1016VIBLKB2 | 1016VIBLKB2 | 1305 |
| 05 | E01E8MS | 02103138 | 102138MS | 1415 |
| 06 | E01E8MSD | 02103138 | 102138MSD | 1449 |

C' 'MENTS: VBLKBG VOA MEDIUM LEVEL SOIL LAB BLANK 10/16/02
F5100B 35(5)/240/10 WB

0017

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Lab File ID: H73FJ612 Lab Sample ID: VBLK1011

Date Analyzed: 10/11/02 Time Analyzed: 1953

GC Column: HP-VOC ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E01D2 | 02102091 | H73FJ613 | 2034 |
| 02 | E01D4 | 02102102 | H73FJ617 | 2315 |
| 03 | E01D6 | 02102104 | H73FJ619 | 0036 |
| 04 | E01D7 | 02102105 | H73FJ620 | 0117 |
| 05 | E01D9 | 02102113 | H73FJ622 | 0239 |
| 06 | E01E0 | 02102114 | H73FJ623 | 0320 |
| 07 | E01E1 | 02102115 | H73FJ624 | 0400 |
| 08 | E01E4 | 02102118 | H73FJ627 | 0601 |
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COMMENTS:



FORM IV VOA

OLM04.2

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKFC

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Lab File ID: H73FJ632 Lab Sample ID: VBLK1012

Date Analyzed: 10/12/02 Time Analyzed: 1301

GC Column: HP-VOC ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E01E5 | 02102119 | H73FJ633 | 1340 |
| 02 | E01E6 | 02102120 | H73FJ634 | 1420 |
| 03 | E01D3 | 02102101 | H73FJ635 | 1459 |
| 04 | E01D5 | 02102103 | H73FJ636 | 1539 |
| 05 | E01D8 | 02102106 | H73FJ637 | 1618 |
| 06 | E01E2 | 02102116 | H73FJ638 | 1657 |
| 07 | E01E3 | 02102117 | H73FJ639 | 1737 |
| 08 | E01E7 | 02102137 | H73FJ640 | 1816 |
| 09 | E01E8 | 02102138 | H73FJ641 | 1856 |
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COMMENTS:



FORM IV VOA

OLM04.2

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKFE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Lab File ID: H73FJ652 Lab Sample ID: VBLK1014

Date Analyzed: 10/14/02 Time Analyzed: 1047

GC Column: HP-VOC ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E01D2MS | 02102091MS | H73FJ656 | 1343 |
| 02 | E01D2MSD | 02102091MSD | H73FJ657 | 1422 |
| 03 | E01D2DL | 02102091 | H73FJ659 | 1516 |
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COMMENTS:



FORM IV VOA

OLM04.2

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKFF

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Lab File ID: H73FJ672 Lab Sample ID: VBLK1015

Date Analyzed: 10/15/02 Time Analyzed: 1615

GC Column: HP-VOC ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E01F0 | 02102140 | H73FJ673 | 1657 |
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COMMENTS:



FORM IV VOA

OLM04.2

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKFG

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Lab File ID: H73FJ692 Lab Sample ID: VBLK1016

Date Analyzed: 10/16/02 Time Analyzed: 1210

GC Column: HP-VOC ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E01E7DL | 02102137 | H73FJ697 | 1529 |
| 02 | | | | |
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COMMENTS:



FORM IV VOA

OLM04.2

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKFH

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Lab File ID: H73FJ712 Lab Sample ID: VBLK1017

Date Analyzed: 10/17/02 Time Analyzed: 1106

GC Column: HP-VOC ID: 0.2 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP73F

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | VHBLKFH | VHBLK1009 | H73FJ713 | 1146 |
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COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D2

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102091

Sample wt/vol: 6.2(g/mL) G Lab File ID: H73FJ613

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 12 Date Analyzed: 10/11/02

GC Column: HP-VOC ID: 0.20 (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 | 210 | E |
| 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 ~~2~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 | 3 | J |
| 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D2

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102091

Sample wt/vol: 6.2(g/mL) G Lab File ID: H73FJ613

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 12 Date Analyzed: 10/11/02

GC Column: HP-VOC ID: 0.20 (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.

E01D2

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102091

Sample wt/vol: 6.2 (g/mL) G Lab File ID: H73FJ613

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 12 Date Analyzed: 10/11/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

E01D2DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102091

Sample wt/vol: 1.0(g/mL) G Lab File ID: H73FJ659

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 12 Date Analyzed: 10/14/02

GC Column: HP-VOC ID: 0.20 (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 | 57 | U |
| 74-87-3 | Chloromethane | 57 | U |
| 75-01-4 | Vinyl Chloride | 57 | U |
| 74-83-9 | Bromomethane | 57 | U |
| 75-00-3 | Chloroethane | 57 | U |
| 75-69-4 | Trichlorofluoromethane | 57 | U |
| 75-35-4 | 1,1-Dichloroethene | 57 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 710 | D |
| 67-64-1 | Acetone | 57 | U |
| 75-15-0 | Carbon Disulfide | 57 | U |
| 79-20-9 | Methyl Acetate | 57 | U |
| 75-09-2 | Methylene Chloride | 57 ~~20~~ | DJB |
| 156-60-5 | trans-1,2-Dichloroethene | 57 | U |
| 1634-04-4 | tert-Butyl Methyl Ether | 57 | U |
| 75-34-3 | 1,1-Dichloroethane | 57 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 57 | U |
| 78-93-3 | 2-Butanone | 57 | U |
| 67-66-3 | Chloroform | 57 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | DJ |
| 110-82-7 | Cyclohexane | 57 | U |
| 56-23-5 | Carbon Tetrachloride | 57 | U |
| 71-43-2 | Benzene | 57 | U |
| 107-06-2 | 1,2-Dichloroethane | 57 | U |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D2DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102091

Sample wt/vol: 1.0(g/mL) G Lab File ID: H73FJ659

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 12 Date Analyzed: 10/14/02

GC Column: HP-VOC ID: 0.20 (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 | 57 | U |
| 108-87-2 | Methylcyclohexane | 57 | U |
| 78-87-5 | 1,2-Dichloropropane | 57 | U |
| 75-27-4 | Bromodichloromethane | 57 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 57 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 57 | U |
| 108-88-3 | Toluene | 57 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 57 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 57 | U |
| 127-18-4 | Tetrachloroethene | 57 | U |
| 591-78-6 | 2-Hexanone | 57 | U |
| 124-48-1 | Dibromochloromethane | 57 | U |
| 106-93-4 | 1,2-Dibromoethane | 57 | U |
| 108-90-7 | Chlorobenzene | 57 | U |
| 100-41-4 | Ethylbenzene | 57 | U |
| 1330-20-7 | Xylene (Total) | 57 | U |
| 100-42-5 | Styrene | 57 | U |
| 75-25-2 | Bromoform | 57 | U |
| 98-82-8 | Isopropylbenzene | 57 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 57 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 57 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 57 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 57 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 57 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 57 | U |

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# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01D2DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102091

Sample wt/vol: 1.0 (g/mL) G Lab File ID: H73FJ659

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 12 Date Analyzed: 10/14/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

E01D2MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102091MS

Sample wt/vol: 1.2(g/mL) G Lab File ID: H73FJ656

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 12 Date Analyzed: 10/14/02

GC Column: HP-VOC ID: 0.20 (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 | 49 | U |
| 74-87-3 | Chloromethane | 49 | U |
| 75-01-4 | Vinyl Chloride | 49 | U |
| 74-83-9 | Bromomethane | 49 | U |
| 75-00-3 | Chloroethane | 49 | U |
| 75-69-4 | Trichlorofluoromethane | 49 | U |
| 75-35-4 | 1,1-Dichloroethene | 280 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 720 | |
| 67-64-1 | Acetone | 49 | U |
| 75-15-0 | Carbon Disulfide | 49 | U |
| 79-20-9 | Methyl Acetate | 49 | U |
| 75-09-2 | Methylene Chloride | 120 | B U |
| 156-60-5 | trans-1,2-Dichloroethene | 49 | U |
| 1634-04-4 | tert-Butyl Methyl Ether | 49 | U |
| 75-34-3 | 1,1-Dichloroethane | 49 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 49 | U |
| 78-93-3 | 2-Butanone | 49 | U |
| 67-66-3 | Chloroform | 49 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | J |
| 110-82-7 | Cyclohexane | 49 | U |
| 56-23-5 | Carbon Tetrachloride | 49 | U |
| 71-43-2 | Benzene | 270 | |
| 107-06-2 | 1,2-Dichloroethane | 49 | U |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D2MS

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102091MS

Sample wt/vol: 1.2(g/mL) G Lab File ID: H73FJ656

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 12 Date Analyzed: 10/14/02

GC Column: HP-VOC ID: 0.20 (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 | 270 | |
| 108-87-2 | Methylcyclohexane | 49 | U |
| 78-87-5 | 1,2-Dichloropropane | 49 | U |
| 75-27-4 | Bromodichloromethane | 49 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 49 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 49 | U |
| 108-88-3 | Toluene | 290 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 49 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 49 | U |
| 127-18-4 | Tetrachloroethene | 49 | U |
| 591-78-6 | 2-Hexanone | 49 | U |
| 124-48-1 | Dibromochloromethane | 49 | U |
| 106-93-4 | 1,2-Dibromoethane | 49 | U |
| 108-90-7 | Chlorobenzene | 290 | |
| 100-41-4 | Ethylbenzene | 49 | U |
| 1330-20-7 | Xylene (Total) | 49 | U |
| 100-42-5 | Styrene | 49 | U |
| 75-25-2 | Bromoform | 49 | U |
| 98-82-8 | Isopropylbenzene | 49 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 49 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 49 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 49 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 49 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 49 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 49 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D2MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102091MSD

Sample wt/vol: 1.0(g/mL) G Lab File ID: H73FJ657

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 12 Date Analyzed: 10/14/02

GC Column: HP-VOC ID: 0.20 (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 | 54 | U |
| 74-87-3 | Chloromethane | 54 | U |
| 75-01-4 | Vinyl Chloride | 54 | U |
| 74-83-9 | Bromomethane | 54 | U |
| 75-00-3 | Chloroethane | 54 | U |
| 75-69-4 | Trichlorofluoromethane | 54 | U |
| 75-35-4 | 1,1-Dichloroethene | 290 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1000 | |
| 67-64-1 | Acetone | 54 | U |
| 75-15-0 | Carbon Disulfide | 54 | U |
| 79-20-9 | Methyl Acetate | 54 | U |
| 75-09-2 | Methylene Chloride | 82 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 54 | U |
| 1634-04-4 | tert-Butyl Methyl Ether | 54 | U |
| 75-34-3 | 1,1-Dichloroethane | 54 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 54 | U |
| 78-93-3 | 2-Butanone | 54 | U |
| 67-66-3 | Chloroform | 54 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 14 | J |
| 110-82-7 | Cyclohexane | 54 | U |
| 56-23-5 | Carbon Tetrachloride | 54 | U |
| 71-43-2 | Benzene | 290 | |
| 107-06-2 | 1,2-Dichloroethane | 54 | U |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D2MSD

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102091MSD

Sample wt/vol: 1.0(g/mL) G Lab File ID: H73FJ657

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 12 Date Analyzed: 10/14/02

GC Column: HP-VOC ID: 0.20 (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 | 280 | |
| 108-87-2 | Methylcyclohexane | 54 | U |
| 78-87-5 | 1,2-Dichloropropane | 54 | U |
| 75-27-4 | Bromodichloromethane | 54 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 54 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 54 | U |
| 108-88-3 | Toluene | 330 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 54 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 54 | U |
| 127-18-4 | Tetrachloroethene | 54 | U |
| 591-78-6 | 2-Hexanone | 54 | U |
| 124-48-1 | Dibromochloromethane | 54 | U |
| 106-93-4 | 1,2-Dibromoethane | 54 | U |
| 108-90-7 | Chlorobenzene | 310 | |
| 100-41-4 | Ethylbenzene | 54 | U |
| 1330-20-7 | Xylene (Total) | 54 | U |
| 100-42-5 | Styrene | 54 | U |
| 75-25-2 | Bromoform | 54 | U |
| 98-82-8 | Isopropylbenzene | 54 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 54 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 54 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 54 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 54 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 54 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 54 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D3

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102101

Sample wt/vol: 6.8(g/mL) G Lab File ID: H73FJ635

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 11 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 4 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D3

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102101

Sample wt/vol: 6.8(g/mL) G Lab File ID: H73FJ635

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 11 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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.

E01D3

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102101

Sample wt/vol: 6.8 (g/mL) G Lab File ID: H73FJ635

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 11 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

E01D4

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102102

Sample wt/vol: 6.3(g/mL) G Lab File ID: H73FJ617

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 13 Date Analyzed: 10/11/02

GC Column: HP-VOC ID: 0.20 (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 ~~2~~ | JB |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D4

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102102

Sample wt/vol: 6.3(g/mL) G Lab File ID: H73FJ617

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 13 Date Analyzed: 10/11/02

GC Column: HP-VOC ID: 0.20 (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 | 3 | 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 |

1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01D4

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102102

Sample wt/vol: 6.3 (g/mL) G Lab File ID: H73FJ617

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 13 Date Analyzed: 10/11/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

E01D5

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102103

Sample wt/vol: 6.5(g/mL) G Lab File ID: H73FJ636

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 4 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |



1079A

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D5

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102103

Sample wt/vol: 6.5(g/mL) G Lab File ID: H73FJ636

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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.

E01D5

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102103

Sample wt/vol: 6.5 (g/mL) G Lab File ID: H73FJ636

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

E01D6

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102104

Sample wt/vol: 6.5(g/mL) G Lab File ID: H73FJ619

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 11 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 ~~2~~ | JB |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D6

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102104

Sample wt/vol: 6.5(g/mL) G Lab File ID: H73FJ619

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 11 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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.

E01D6

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102104

Sample wt/vol: 6.5 (g/mL) G Lab File ID: H73FJ619

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 11 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D7

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102105

Sample wt/vol: 6.0(g/mL) G Lab File ID: H73FJ620

Level: (low/med) LOW Date Received: 01/10/02

% Moisture: not dec. 12 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 ~~2~~ | JB |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D7

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102105

Sample wt/vol: 6.0(g/mL) G Lab File ID: H73FJ620

Level: (low/med) LOW Date Received: 01/10/02

% Moisture: not dec. 12 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 |

0093

1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01D7

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102105

Sample wt/vol: 6.0 (g/mL) G Lab File ID: H73FJ620

Level: (low/med) LOW Date Received: 01/10/02

% Moisture: not dec. 12 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

E01D8

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102106

Sample wt/vol: 6.8(g/mL) G Lab File ID: H73FJ637

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 14 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 3 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D8

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102106

Sample wt/vol: 6.8(g/mL) G Lab File ID: H73FJ637

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 14 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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.

E01D8

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102106

Sample wt/vol: 6.8 (g/mL) G Lab File ID: H73FJ637

Level: (low/med) LOW Date Received: 10/10/02

% Moisture: not dec. 14 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | | | | |
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DATE: Onovember 1, 2001

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Elsworth Industrial Park

| CASE NO. | LAB | NO. OF SAMPLES | SDG | MATRIX |
|---|---|---|---|---|
| 31033 | Envirosystems | 19 | E01D2 | 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

NOV 04 2002

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D9

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102113

Sample wt/vol: 6.5(g/mL) G Lab File ID: H73FJ622

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 ~~2~~ | JB |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01D9

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102113

Sample wt/vol: 6.5(g/mL) G Lab File ID: H73FJ622

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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.

E01D9

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102113

Sample wt/vol: 6.5 (g/mL) G Lab File ID: H73FJ622

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E0

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102114

Sample wt/vol: 6.0(g/mL) G Lab File ID: H73FJ623

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 ~~2~~ | JB |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E0

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102114

Sample wt/vol: 6.0(g/mL) G Lab File ID: H73FJ623

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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.

E01E0

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102114

Sample wt/vol: 6.0 (g/mL) G Lab File ID: H73FJ623

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

E01E1

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102115

Sample wt/vol: 6.3(g/mL) G Lab File ID: H73FJ624

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 ~~2~~ | JB U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E1

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102115

Sample wt/vol: 6.3(g/mL) G Lab File ID: H73FJ624

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 4 | 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 |

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01E1

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102115

Sample wt/vol: 6.3 (g/mL) G Lab File ID: H73FJ624

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E2

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102116

Sample wt/vol: 6.5(g/mL) G Lab File ID: H73FJ638

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 3 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E2

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102116

Sample wt/vol: 6.5(g/mL) G Lab File ID: H73FJ638

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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.

E01E2

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102116

Sample wt/vol: 6.5 (g/mL) G Lab File ID: H73FJ638

Level: (low/med) LOW Date Received: 10/09/02

% Moisture: not dec. 13 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

E01E3

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102117

Sample wt/vol: 6.1(g/mL) G Lab File ID: H73FJ639

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 4 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E3

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102117

Sample wt/vol: 6.1(g/mL) G Lab File ID: H73FJ639

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 |

0153

1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01E3

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102117

Sample wt/vol: 6.1 (g/mL) G Lab File ID: H73FJ639

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E4

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102118

Sample wt/vol: 6.0(g/mL) G Lab File ID: H73FJ627

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 15 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 ~~2~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E4

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102118

Sample wt/vol: 6.0(g/mL) G Lab File ID: H73FJ627

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 15 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 |

0162

1F
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01E4

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102118

Sample wt/vol: 6.0 (g/mL) G Lab File ID: H73FJ627

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 15 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/Kg

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

EPA SAMPLE NO.

E01E5

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102119

Sample wt/vol: 6.2(g/mL) G Lab File ID: H73FJ633

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 5 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E5

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102119

Sample wt/vol: 6.2(g/mL) G Lab File ID: H73FJ633

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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.

E01E5

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102119

Sample wt/vol: 6.2 (g/mL) G Lab File ID: H73FJ633

Level: (low/med) LOW Date Received: 10/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. | UNKNOWN | 23.27 | 92 | J |
| 2. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E6

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102120

Sample wt/vol: 6.4(g/mL) G Lab File ID: H73FJ634

Level: (low/med) LOW Date Received: 01/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 2 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~3~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E6

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102120

Sample wt/vol: 6.4(g/mL) G Lab File ID: H73FJ634

Level: (low/med) LOW Date Received: 01/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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.

E01E6

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102120

Sample wt/vol: 6.4 (g/mL) G Lab File ID: H73FJ634

Level: (low/med) LOW Date Received: 01/11/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 556-67-2 | CYCLOTETRASILOXANE, OCTAMETH | 23.27 | 61 | NJ |
| 2. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E7

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102137

Sample wt/vol: 6.2(g/mL) G Lab File ID: H73FJ640

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 2 | J |
| 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 | 120 | |
| 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 ~~2~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 21 | |
| 1634-04-4 | tert-Butyl Methyl Ether | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 290 | E |
| 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E7

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102137

Sample wt/vol: 6.2(g/mL) G Lab File ID: H73FJ640

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 17 | |
| 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 | 9 | 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 |

1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01E7

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102137

Sample wt/vol: 6.2 (g/mL) G Lab File ID: H73FJ640

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 16 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| 1. 354-23-4 | ETHANE, 1,2-DICHLORO-1,1,2-T | 7.54 | 19 | NJ |
| 2. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E7DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102137

Sample wt/vol: 1.6(g/mL) G Lab File ID: H73FJ697

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 16 Date Analyzed: 10/16/02

GC Column: HP-VOC ID: 0.20 (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 | 38 | U |
| 74-87-3 | Chloromethane | 38 | U |
| 75-01-4 | Vinyl Chloride | 38 | U |
| 74-83-9 | Bromomethane | 38 | U |
| 75-00-3 | Chloroethane | 38 | U |
| 75-69-4 | Trichlorofluoromethane | 38 | U |
| 75-35-4 | 1,1-Dichloroethene | 38 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 120 | D |
| 67-64-1 | Acetone | 38 ~~13~~ | DJB u |
| 75-15-0 | Carbon Disulfide | 38 | U |
| 79-20-9 | Methyl Acetate | 38 | U |
| 75-09-2 | Methylene Chloride | 39 ~~14~~ | DJB u |
| 156-60-5 | trans-1,2-Dichloroethene | 48 | D |
| 1634-04-4 | tert-Butyl Methyl Ether | 38 | U |
| 75-34-3 | 1,1-Dichloroethane | 38 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 490 | D |
| 78-93-3 | 2-Butanone | 38 | U |
| 67-66-3 | Chloroform | 38 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 38 | U |
| 110-82-7 | Cyclohexane | 38 | U |
| 56-23-5 | Carbon Tetrachloride | 38 | U |
| 71-43-2 | Benzene | 38 | U |
| 107-06-2 | 1,2-Dichloroethane | 38 | U |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E7DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102137

Sample wt/vol: 1.6(g/mL) G Lab File ID: H73FJ697

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 16 Date Analyzed: 10/16/02

GC Column: HP-VOC ID: 0.20 (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 | 15 | DJ |
| 108-87-2 | Methylcyclohexane | 38 | U |
| 78-87-5 | 1,2-Dichloropropane | 38 | U |
| 75-27-4 | Bromodichloromethane | 38 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 38 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 38 | U |
| 108-88-3 | Toluene | 38 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 38 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 38 | U |
| 127-18-4 | Tetrachloroethene | 9 | DJ |
| 591-78-6 | 2-Hexanone | 38 | U |
| 124-48-1 | Dibromochloromethane | 38 | U |
| 106-93-4 | 1,2-Dibromoethane | 38 | U |
| 108-90-7 | Chlorobenzene | 38 | U |
| 100-41-4 | Ethylbenzene | 38 | U |
| 1330-20-7 | Xylene (Total) | 38 | U |
| 100-42-5 | Styrene | 38 | U |
| 75-25-2 | Bromoform | 38 | U |
| 98-82-8 | Isopropylbenzene | 38 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 38 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 38 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 38 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 38 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 38 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 38 | U |

1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01E7DL

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102137

Sample wt/vol: 1.6 (g/mL) G Lab File ID: H73FJ697

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 16 Date Analyzed: 10/16/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

E01E8

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102138

Sample wt/vol: 6.1(g/mL) G Lab File ID: H73FJ641

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 11 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 4 | J |
| 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 | 1100 | E |
| 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 ~~2~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 17 | |
| 1634-04-4 | tert-Butyl Methyl Ether | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1200 | E |
| 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E8

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102138

Sample wt/vol: 6.1(g/mL) G Lab File ID: H73FJ641

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 11 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 1500 | E |
| 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 | 7000 | E |
| 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 | 0.9 | J |
| 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.

E01E8

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102138

Sample wt/vol: 6.1 (g/mL) G Lab File ID: H73FJ641

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 11 Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

E01E8DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102138

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102138MD

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 11 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 3800 | U |
| 74-87-3 | Chloromethane | 3800 | U |
| 75-01-4 | Vinyl Chloride | 3800 | U |
| 74-83-9 | Bromomethane | 3800 | U |
| 75-00-3 | Chloroethane | 3800 | U |
| 75-69-4 | Trichlorofluoromethane | 3800 | U |
| 75-35-4 | 1,1-Dichloroethene | 3800 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 15000 | D |
| 67-64-1 | Acetone | 3800 | U |
| 75-15-0 | Carbon Disulfide | 3800 | U |
| 79-20-9 | Methyl Acetate | 3800 | U |
| 75-09-2 | Methylene Chloride | 3800 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 3800 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 3800 | U |
| 75-34-3 | 1,1-Dichloroethane | 3800 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 3900 | D |
| 78-93-3 | 2-Butanone | 3800 | U |
| 67-66-3 | Chloroform | 3800 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 3800 | U |
| 110-82-7 | Cyclohexane | 3800 | U |
| 56-23-5 | Carbon Tetrachloride | 3800 | U |
| 71-43-2 | Benzene | 3800 | U |
| 107-06-2 | 1,2-Dichloroethane | 3800 | U |

0233

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E8DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102138

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102138MD

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 11 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5700 | D |
| 108-87-2 | Methylcyclohexane | 3800 | U |
| 78-87-5 | 1,2-Dichloropropane | 3800 | U |
| 75-27-4 | Bromodichloromethane | 3800 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 3800 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 3800 | U |
| 108-88-3 | Toluene | 3800 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 3800 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 3800 | U |
| 127-18-4 | Tetrachloroethene | 56000 | D |
| 591-78-6 | 2-Hexanone | 3800 | U |
| 124-48-1 | Dibromochloromethane | 3800 | U |
| 106-93-4 | 1,2-Dibromoethane | 3800 | U |
| 108-90-7 | Chlorobenzene | 3800 | U |
| 100-41-4 | Ethylbenzene | 3800 | U |
| 1330-20-7 | Xylene (total) | 3800 | U |
| 100-42-5 | Styrene | 3800 | U |
| 75-25-2 | Bromoform | 3800 | U |
| 98-82-8 | Isopropylbenzene | 3800 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3800 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 3800 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 3800 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 3800 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 3800 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3800 | U |

1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01E8DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

L.._ Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102138

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102138MD

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 11 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|
| | | | | |

0235

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E8MS

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02103138

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102138MS

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 11 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 3800 | U |
| 74-87-3 | Chloromethane | 3800 | U |
| 75-01-4 | Vinyl Chloride | 3800 | U |
| 74-83-9 | Bromomethane | 3800 | U |
| 75-00-3 | Chloroethane | 3800 | U |
| 75-69-4 | Trichlorofluoromethane | 3800 | U |
| 75-35-4 | 1,1-Dichloroethene | 19000 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12000 | |
| 67-64-1 | Acetone | 3800 | U |
| 75-15-0 | Carbon Disulfide | 3800 | U |
| 79-20-9 | Methyl Acetate | 3800 | U |
| 75-09-2 | Methylene Chloride | 3800 ~~450~~ | BJ U |
| 156-60-5 | trans-1,2-Dichloroethene | 3800 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 3800 | U |
| 75-34-3 | 1,1-Dichloroethane | 3800 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 3200 | J |
| 78-93-3 | 2-Butanone | 3800 | U |
| 67-66-3 | Chloroform | 3800 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 3800 | U |
| 110-82-7 | Cyclohexane | 3800 | U |
| 56-23-5 | Carbon Tetrachloride | 3800 | U |
| 71-43-2 | Benzene | 18000 | |
| 107-06-2 | 1,2-Dichloroethane | 3800 | U |

ACH 10-28-02

0535

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E8MS

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02103138

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102138MS

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 11 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | G |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 25000 | |
| 108-87-2 | Methylcyclohexane | 3800 | U |
| 78-87-5 | 1,2-Dichloropropane | 3800 | U |
| 75-27-4 | Bromodichloromethane | 3800 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 3800 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 3800 | U |
| 108-88-3 | Toluene | 19000 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 3800 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 3800 | U |
| 127-18-4 | Tetrachloroethene | 41000 | |
| 591-78-6 | 2-Hexanone | 3800 | U |
| 124-48-1 | Dibromochloromethane | 3800 | U |
| 106-93-4 | 1,2-Dibromoethane | 3800 | U |
| 108-90-7 | Chlorobenzene | 18000 | |
| 100-41-4 | Ethylbenzene | 3800 | U |
| 1330-20-7 | Xylene (total) | 3800 | U |
| 100-42-5 | Styrene | 3800 | U |
| 75-25-2 | Bromoform | 3800 | U |
| 98-82-8 | Isopropylbenzene | 3800 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3800 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 3800 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 3800 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 3800 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 3800 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3800 | U |

0536

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E8MSD

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02103138

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102138MSD

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 11 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 3800 | U |
| 74-87-3 | Chloromethane | 3800 | U |
| 75-01-4 | Vinyl Chloride | 3800 | U |
| 74-83-9 | Bromomethane | 3800 | U |
| 75-00-3 | Chloroethane | 3800 | U |
| 75-69-4 | Trichlorofluoromethane | 3800 | U |
| 75-35-4 | 1,1-Dichloroethene | 20000 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 12000 | |
| 67-64-1 | Acetone | 3800 | U |
| 75-15-0 | Carbon Disulfide | 3800 | U |
| 79-20-9 | Methyl Acetate | 3800 | U |
| 75-09-2 | Methylene Chloride | 3800 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 3800 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 3800 | U |
| 75-34-3 | 1,1-Dichloroethane | 3800 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 3200 | J |
| 78-93-3 | 2-Butanone | 3800 | U |
| 67-66-3 | Chloroform | 3800 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 3800 | U |
| 110-82-7 | Cyclohexane | 3800 | U |
| 56-23-5 | Carbon Tetrachloride | 3800 | U |
| 71-43-2 | Benzene | 19000 | |
| 107-06-2 | 1,2-Dichloroethane | 3800 | U |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E8MSD

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02103138

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102138MSD

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 11 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 0.2

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 23000 | |
| 108-87-2 | Methylcyclohexane | 3800 | U |
| 78-87-5 | 1,2-Dichloropropane | 3800 | U |
| 75-27-4 | Bromodichloromethane | 3800 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 3800 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 3800 | U |
| 108-88-3 | Toluene | 20000 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 3800 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 3800 | U |
| 127-18-4 | Tetrachloroethene | 41000 | |
| 591-78-6 | 2-Hexanone | 3800 | U |
| 124-48-1 | Dibromochloromethane | 3800 | U |
| 106-93-4 | 1,2-Dibromoethane | 3800 | U |
| 108-90-7 | Chlorobenzene | 19000 | |
| 100-41-4 | Ethylbenzene | 3800 | U |
| 1330-20-7 | Xylene (total) | 3800 | U |
| 100-42-5 | Styrene | 3800 | U |
| 75-25-2 | Bromoform | 3800 | U |
| 98-82-8 | Isopropylbenzene | 3800 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3800 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 3800 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 3800 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 3800 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 3800 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3800 | U |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E9

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02103139

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102139M

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 15 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (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 | 1500 | U |
| 74-87-3 | Chloromethane | 1500 | U |
| 75-01-4 | Vinyl Chloride | 1500 | U |
| 74-83-9 | Bromomethane | 1500 | U |
| 75-00-3 | Chloroethane | 1500 | U |
| 75-69-4 | Trichlorofluoromethane | 1500 | U |
| 75-35-4 | 1,1-Dichloroethene | 1500 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 370 | J |
| 67-64-1 | Acetone | 1700 | |
| 75-15-0 | Carbon Disulfide | 1500 | U |
| 79-20-9 | Methyl Acetate | 1500 | U |
| 75-09-2 | Methylene Chloride | 4700 | B |
| 156-60-5 | trans-1,2-Dichloroethene | 130 | J |
| 1634-04-4 | Methyl tert-Butyl Ether | 1500 | U |
| 75-34-3 | 1,1-Dichloroethane | 1500 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 5800 | |
| 78-93-3 | 2-Butanone | 1500 | U |
| 67-66-3 | Chloroform | 1500 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1500 | U |
| 110-82-7 | Cyclohexane | 1500 | U |
| 56-23-5 | Carbon Tetrachloride | 1500 | U |
| 71-43-2 | Benzene | 1500 | U |
| 107-06-2 | 1,2-Dichloroethane | 1500 | U |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E9

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02103139

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102139M

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 15 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (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 | 13000 | |
| 108-87-2 | Methylcyclohexane | 1500 | U |
| 78-87-5 | 1,2-Dichloropropane | 1500 | U |
| 75-27-4 | Bromodichloromethane | 1500 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1500 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1500 | U |
| 108-88-3 | Toluene | 1500 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1500 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1500 | U |
| 127-18-4 | Tetrachloroethene | 58000 | E |
| 591-78-6 | 2-Hexanone | 1500 | U |
| 124-48-1 | Dibromochloromethane | 1500 | U |
| 106-93-4 | 1,2-Dibromoethane | 1500 | U |
| 108-90-7 | Chlorobenzene | 1500 | U |
| 100-41-4 | Ethylbenzene | 1500 | U |
| 1330-20-7 | Xylene (total) | 1500 | U |
| 100-42-5 | Styrene | 1500 | U |
| 75-25-2 | Bromoform | 1500 | U |
| 98-82-8 | Isopropylbenzene | 1500 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1500 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 1500 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 1500 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 1500 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1500 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1500 | U |

1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01E9

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02103139

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102139M

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 15 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (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 |
|---|---|---|---|---|
| | | | | |

0256

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E9DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02103139

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102139MD

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 15 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 4000 | U |
| 74-87-3 | Chloromethane | 4000 | U |
| 75-01-4 | Vinyl Chloride | 4000 | U |
| 74-83-9 | Bromomethane | 4000 | U |
| 75-00-3 | Chloroethane | 4000 | U |
| 75-69-4 | Trichlorofluoromethane | 4000 | U |
| 75-35-4 | 1,1-Dichloroethene | 4000 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 390 | DJ |
| 67-64-1 | Acetone | 4000 | U |
| 75-15-0 | Carbon Disulfide | 4000 | U |
| 79-20-9 | Methyl Acetate | 4000 | U |
| 75-09-2 | Methylene Chloride | 6300 | BD |
| 156-60-5 | trans-1,2-Dichloroethene | 4000 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 4000 | U |
| 75-34-3 | 1,1-Dichloroethane | 4000 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 7100 | D |
| 78-93-3 | 2-Butanone | 4000 | U |
| 67-66-3 | Chloroform | 4000 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 4000 | U |
| 110-82-7 | Cyclohexane | 4000 | U |
| 56-23-5 | Carbon Tetrachloride | 4000 | U |
| 71-43-2 | Benzene | 4000 | U |
| 107-06-2 | 1,2-Dichloroethane | 4000 | U |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01E9DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02103139

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102139MD

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 15 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 15000 | D |
| 108-87-2 | Methylcyclohexane | 4000 | U |
| 78-87-5 | 1,2-Dichloropropane | 4000 | U |
| 75-27-4 | Bromodichloromethane | 4000 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 4000 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 4000 | U |
| 108-88-3 | Toluene | 4000 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 4000 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4000 | U |
| 127-18-4 | Tetrachloroethene | 74000 | D |
| 591-78-6 | 2-Hexanone | 4000 | U |
| 124-48-1 | Dibromochloromethane | 4000 | U |
| 106-93-4 | 1,2-Dibromoethane | 4000 | U |
| 108-90-7 | Chlorobenzene | 4000 | U |
| 100-41-4 | Ethylbenzene | 4000 | U |
| 1330-20-7 | Xylene (total) | 4000 | U |
| 100-42-5 | Styrene | 4000 | U |
| 75-25-2 | Bromoform | 4000 | U |
| 98-82-8 | Isopropylbenzene | 4000 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4000 | U |
| 541-73-1 | 1,3 Dichlorobenzene | 4000 | U |
| 106-46-7 | 1,4 Dichlorobenzene | 4000 | U |
| 95-50-1 | 1,2 Dichlorobenzene | 4000 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 4000 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4000 | U |

0280

1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01E9DL

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02103139

Sample wt/vol: 6.1 (g/mL) G Lab File ID: 102139MD

Level: (low/med) MED Date Received: 10/12/02

% Moisture: not dec. 15 Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: 10000 (uL) Soil Aliquot Volume: 25.0(uL)

Number TICs found: 0

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

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|

0286

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01F0

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102140

Sample wt/vol: 6.1(g/mL) G Lab File ID: H73FJ673

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 17 Date Analyzed: 10/15/02

GC Column: HP-VOC ID: 0.20 (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 | 6 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01F0

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102140

Sample wt/vol: 6.1(g/mL) G Lab File ID: H73FJ673

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 17 Date Analyzed: 10/15/02

GC Column: HP-VOC ID: 0.20 (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.

E01F0

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 02102140

Sample wt/vol: 6.1 (g/mL) G Lab File ID: H73FJ673

Level: (low/med) LOW Date Received: 10/12/02

% Moisture: not dec. 17 Date Analyzed: 10/15/02

GC Column: HP-VOC ID: 0.20 (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. | | | | |
| 4. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBG

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 1016VSBB1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 1016VSBB1

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (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 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1300 | U |
| 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 | 150 | J |
| 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKBG

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 1016VSBB1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 1016VSBB1

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (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 |

1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKBG

Lab Name: ENVIROSYSTEMS Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: 1016VSBB1

Sample wt/vol: 4.0 (g/mL) G Lab File ID: 1016VSBB1

Level: (low/med) MED Date Received:

% Moisture: not dec. Date Analyzed: 10/16/02

GC Column: RTX-502.2 ID: 0.530 (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 |
|---|---|---|---|---|

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1011

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ612

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

% Moisture: not dec. _____ Date Analyzed: 10/11/02

GC Column: HP-VOC ID: 0.20 (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 | 2 | J |
| 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 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1011

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ612

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

% Moisture: not dec. _____ Date Analyzed: 10/11/02

GC Column: HP-VOC ID: 0.20 (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.

VBLKFB

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1011

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FJ612

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

% Moisture: not dec. _____ Date Analyzed: 10/11/02

GC Column: HP-VOC ID: 0.20 (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. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFC

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1012

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ632

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

% Moisture: not dec. _____ Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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 | 2 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFC

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1012

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ632

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

% Moisture: not dec. _____ Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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.

VBLKFC

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1012

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FJ632

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

% Moisture: not dec. _____ Date Analyzed: 10/12/02

GC Column: HP-VOC ID: 0.20 (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. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1014

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ652

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

% Moisture: not dec. _____ Date Analyzed: 10/14/02

GC Column: HP-VOC ID: 0.20 (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 | 3 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 4 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1014

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ652

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

% Moisture: not dec. _____ Date Analyzed: 10/14/02

GC Column: HP-VOC ID: 0.20 (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.

VBLKFE

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1014

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FJ652

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

% Moisture: not dec. _____ Date Analyzed: 10/14/02

GC Column: HP-VOC ID: 0.20 (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. | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFF

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1015

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ672

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

% Moisture: not dec. _____ Date Analyzed: 10/15/02

GC Column: HP-VOC ID: 0.20 (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 | 2 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFF

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1015

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ672

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

% Moisture: not dec. _____ Date Analyzed: 10/15/02

GC Column: HP-VOC ID: 0.20 (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.

VBLKFF

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1015

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FJ672

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

% Moisture: not dec. _____ Date Analyzed: 10/15/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

VBLKFG

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1016

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ692

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

% Moisture: not dec. _____ Date Analyzed: 10/16/02

GC Column: HP-VOC ID: 0.20 (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 | 2 | J |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 3 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFG

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1016

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ692

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

% Moisture: not dec. _____ Date Analyzed: 10/16/02

GC Column: HP-VOC ID: 0.20 (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.

VBLKFG

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1016

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FJ692

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

% Moisture: not dec. _____ Date Analyzed: 10/16/02

GC Column: HP-VOC ID: 0.20 (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. | | | | | |
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFH

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1017

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ712

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

% Moisture: not dec. _____ Date Analyzed: 10/17/02

GC Column: HP-VOC ID: 0.20 (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 | 2 | J |
| 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 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKFH

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1017

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ712

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

% Moisture: not dec. _____ Date Analyzed: 10/17/02

GC Column: HP-VOC ID: 0.20 (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.

VBLKFH

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VBLK1017

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FJ712

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

% Moisture: not dec. _____ Date Analyzed: 10/17/02

GC Column: HP-VOC ID: 0.20 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

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

EPA SAMPLE NO.

VHBLKFH

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK1009

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ713

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

% Moisture: not dec. _____ Date Analyzed: 10/17/02

GC Column: HP-VOC ID: 0.20 (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 ~~3~~ | JB |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 79-20-9 | Methyl Acetate | 10 | U |
| 75-09-2 | Methylene Chloride | 10 ~~2~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 10 | U |
| 1634-04-4 | tert-Butyl Methyl 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 |

1B
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKFH

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK1009

Sample wt/vol: 5.0(g/mL) G Lab File ID: H73FJ713

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

% Moisture: not dec. _____ Date Analyzed: 10/17/02

GC Column: HP-VOC ID: 0.20 (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.

VHBLKFH

Lab Name: ENVIROSYSTEMS, INC. Contract: 68W99022

Lab Code: ENVSYS Case No.: 31033 SAS No.: SDG No.: E01D2

Matrix: (soil/water) SOIL Lab Sample ID: VHBLK1009

Sample wt/vol: 5.0 (g/mL) G Lab File ID: H73FJ713

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

% Moisture: not dec. _____ Date Analyzed: 10/17/02

GC Column: HP-VOC ID: 0.20 (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. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| 9. | | | | |
| 10. | | | | |
| 11. | | | | |
| 12. | | | | |
| 13. | | | | |
| 14. | | | | |
| 15. | | | | |
| 16. | | | | |
| 17. | | | | |
| 18. | | | | |
| 19. | | | | |
| 20. | | | | |
| 21. | | | | |
| 22. | | | | |
| 23. | | | | |
| 24. | | | | |
| 25. | | | | |
| 26. | | | | |
| 27. | | | | |
| 28. | | | | |
| 29. | | | | |
| 30. | | | | |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E01B2 CERCLIS No: ILN000508246

Case No: 31033 Site Name/Location: ELSWORTH INDUS. PARK

Contractor or EPA Lab: ENVIROSYSTEMS Data User: IEPA

No. of Samples: 19 Date Sampled or Date Received: 10-18-02

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: 19 No. of samples received: 19

Received by: Ena M. Dixon / ESAT Date: 10-18-02

Received by LSSS: Ena M. Dixon / ESAT Date: 10-18-02

Review started: 10-28-02 Reviewer Signature: Allison C Haley

Total time spent on review: 14 hrs Date review completed: 10-29-02

Copied by: ____ Date: ____

Mailed to user by: ____ Date: ____

**DATA USER:**
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

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. Date: ____

G-28
G-201
G-202

DATE: May 29, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Elsworth Industrial Park

| CASE NO. | LAB | NO. OF SAMPLES | SDG | MATRIX |
|---|---|---|---|---|
| 30450 | Compuchem | 3 | E00X7 | 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:_____

RECEIVED
JUN 03 2002
IEPA-BOL-FSRS

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**REGION V**

DATE: May 24, 2002

SUBJECT: Review of Data
Received for Review on May 21, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Ellsworth Industrial Park (IL)

CASE NUMBER: 30450 SDG NUMBER: E00X7

Number and Type of Samples: 3 (water)

Sample Numbers: E00X7, E00Y5-6

Laboratory: CompuChem Hrs. for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

RECEIVED
JUN 0 3 2002
IEPA-BOL-FORS

**Case Number :** 30450 **SDG Number:** E00X7
**Site Name:** Ellsworth Industrial Park (IL) **Laboratory:** CompuChem

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

Three (3) Water samples, numbered E00X7, E00Y5 and E00Y6, were collected on May 1 and 3, 2002. The lab received the samples on May 3, 2002 in good condition. All samples were analyzed only for the volatile organic analytes. All were analyzed according to CLP SOW OLC03.2 6/01.

Reviewed By: Richard Baltrus/IITRI-ESAT
Date: May 24, 2002

**Case Number :** 30450 **SDG Number:** E00X7
**Site Name:** Ellsworth Industrial Park (IL) **Laboratory:** CompuChem

## 1. HOLDING TIME

No defects found.

## 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found.

## 3. CALIBRATION

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".

**Methyl Acetate**
VBLKHU, VHBLKEI

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

**Dichlorodifluoromethane, 1,1,1-Trichloroethane**
E00X7, E00X7DL, E00X7MS, E00X7MSD, E00Y5, E00Y6, VBLKEI

The following volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. Hits are flagged "J" and non-detects are flagged "UJ".

**1,1-Dichloroethane, Bromochloromethane, Chloroform**
E00X7, E00X7DL, E00X7MS, E00X7MSD, E00Y5, E00Y6, VBLKEI

## 4. BLANKS

The following volatile samples were analyzed after a highly contaminated sample and have no preceding instrument blank. Since the sample E00X7 exceeded the instruments calibration range and was analyzed just prior to E00X7MS and E00X7MSD there is a possibility of a carryover.

**cis-1,2-Dichloroethene**
E00X7MS, E00X7MSD

The following volatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is less than the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U and non-detects are not flagged.

Reviewed By: Richard Baltrus/IITRI-ESAT
Date: May 24, 2002

Case Number : 30450 SDG Number: E00X7
Site Name: Ellsworth Industrial Park (IL) Laboratory: CompuChem

**Acetone**
E00X7DL, E00X7MS

**Methylene Chloride**
E00X7MSD, E00Y5, E00Y6, VHBLKEI

**cis-1,3-Dichloropropene**
E00X7, E00X7DL, E00X7MSD, E00Y5, E00Y6

The following volatile samples have analyte concentrations reported at or above the CRQL. The associated method blank concentration is less than the concentration criteria. Hits are qualified "J" and non-detects are not flagged.

**Acetone**
E00Y5

The following volatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is more than or equal to the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U and non-detects are not flagged.

**Bromoform**
E00X7, E00X7DL, E00X7MS, E00X7MSD

The following volatile samples have analyte concentrations reported at or above the CRQL and more than or equal to the method blank concentration. The associated method blank concentration is more than or equal to the concentration criteria. Hits are qualified "J" and non-detects are not flagged.

**Bromoform**
E00Y5, E00Y6

## 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

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

**Dibromochloromethane, 1,2-Dibromoethane, Bromoform**
E00X7MSD

The following volatile samples have one or more DMC recovery values below the lower limit of the criteria window. Hits are biased low and qualified "J" and non-detects are qualified "UJ".

Reviewed By: Richard Baltrus/IITRI-ESAT
Date: May 24, 2002

Case Number : 30450 SDG Number: E00X7
Site Name: Ellsworth Industrial Park (IL) Laboratory: CompuChem

**Trans-1,2-Dichloroethene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Bromochloromethane, Chloroform**
E00X7

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects found.

## 7. FIELD BLANK AND FIELD DUPLICATE

There are no field blanks or field duplicates in this package. Results are not qualified based upon the results of the field blank or field duplicates.

## 8. INTERNAL STANDARDS

No defects found.

## 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

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

**E00X7**
Bromomethane, Chloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,1-Dichloroethane, Chloroform, 1,1,1-Trichloroethane, Benzene, Toluene

**E00X7DL**
1,1-Dichloroethane, 1,1,1-Trichloroethane, Trichloroethene, Toluene

**E00X7MS**
1,1-Dichloroethane, Chloroform, 1,1,1-Trichloroethane

**E00X7MSD**
1,1-Dichloroethane, Chloroform, 1,1,1-Trichloroethane, Xylenes (total)

**E00Y5**
Benzene, Trichloroethene, Toluene

Reviewed By: Richard Baltrus/IITRI-ESAT
Date: May 24, 2002

**Case Number :** 30450 **SDG Number:** E00X7
**Site Name:** Ellsworth Industrial Park (IL) **Laboratory:** CompuChem

**VBLKEI**
Acetone, Methylene Chloride, cis-1,3-Dichloropropene, 1,2,3-Trichlorobenzene

**VBLKHU**
Methylene Chloride, cis-1,3-Dichloropropene

## 11. SYSTEM PERFORMANCE

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

## 12. ADDITIONAL INFORMATION

The samples received by the laboratory had a temperature of 9.7 degrees C. The samples were acid preserved and have a pH of less than 2.0.

The following volatile sample has an analyte that exceed the instrument's calibration range. For any analyte that exceeded the calibration range the result from the diluted sample should be considered the final concentration.

**cis-1,2-Dichloroethene**
E00X7

Reviewed By: Richard Baltrus/IITRI-ESAT
Date: May 24, 2002

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 anlayte 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) |

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E00X7

Sample Type: Spike Original
Lab ID: LIBRTY
Case No.: 30450
SDG No.: E00X7

Location: G28
Matrix/Level: Water/
File Name: E00X7

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| 354234 | ETHANE, 1,2-DICHLORO-1,1,2-TRIFLUORO- | 5.11 | 1.2 | NJ |

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

Sample No.: E00X7DL

Sample Type: Routine Sample
Lab ID: LIBRTY
Case No.: 30450
SDG No.: E00X7

Location: G28
Matrix/Level: Water/
File Name: E00X7

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| 354234 | ETHANE, 1,2-DICHLORO-1,1,2-TRIFLUORO- | 5.10 | 1.5 | NJD |

**Analytical Results (Qualified Data)**

Case #: 30450 SDG : E00X7
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 3

| Sample Number : | E00X7 | | E00X7DL | | E00X7MS | | E00X7MSD | | E00Y5 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G28 | | G28 | | G28 | | G28 | | G201 | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/01/2002 | | 05/01/2002 | | 05/01/2002 | | 05/01/2002 | | 05/01/2002 | |
| Time Sampled : | 15:30 | | 15:30 | | 15:30 | | 15:30 | | 07:00 | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 2.1 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 0.5 | UJ | 1 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Chloromethane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Vinyl Chloride | 2 | | 2 | | 1 | | 2 | | 0.5 | U |
| Bromomethane | 0.1 | J | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroethane | 0.2 | J | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichlorofluoromethane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1-Dichloroethene | 0.5 | U | 1 | U | 4 | | 5 | | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.4 | J | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Acetone | 5 | U | 10 | U | 5 | U | 5 | U | 22 | J |
| Carbon Disulfide | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl Acetate | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methylene Chloride | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,2-Dichloroethene | 2 | J | 2 | | 1 | | 2 | | 0.5 | U |
| tert-Butyl Methyl Ether | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1-Dichloroethane | 0.3 | J | 0.3 | J | 0.3 | J | 0.3 | J | 0.5 | UJ |
| cis-1,2-Dichloroethene | 28 | J | 27 | | 23 | | 27 | | 0.5 | U |
| 2-Butanone | 5 | U | 10 | U | 5 | U | 5 | U | 5 | U |
| Bromochloromethane | 0.5 | UJ | 1 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Chloroform | 0.1 | J | 1 | UJ | 0.1 | J | 0.1 | J | 0.5 | UJ |
| 1,1,1-Trichloroethane | 0.3 | J | 0.3 | J | 0.2 | J | 0.3 | J | 0.5 | UJ |
| Cyclohexane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Carbon Tetrachloride | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Benzene | 0.1 | J | 1 | U | 5 | | 5 | | 0.2 | J |
| 1,2-Dichloroethane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichloroethene | 0.6 | | 0.4 | J | 5 | | 5 | | 0.2 | J |
| Methylcyclohexane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloropropane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromodichloromethane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,3-Dichloropropene | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 4-Methyl-2-pentanone | 5 | U | 10 | U | 5 | U | 5 | U | 5 | U |
| Toluene | 0.1 | J | 0.2 | J | 5 | | 5 | | 0.4 | J |
| trans-1,3-Dichloropropene | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloroethane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30450 SDG : E00X7
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : LIBRTY
Reviewer :
Date :

| Sample Number : | E00X7 | | E00X7DL | | E00X7MS | | E00X7MSD | | E00Y5 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G28 | | G28 | | G28 | | G28 | | G201 | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/01/2002 | | 05/01/2002 | | 05/01/2002 | | 05/01/2002 | | 05/01/2002 | |
| Time Sampled : | 15:30 | | 15:30 | | 15:30 | | 15:30 | | 07:00 | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 2.1 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Tetrachloroethene | 1 | | 1 | | 1 | | 1 | | 0.5 | U |
| 2-Hexanone | 5 | U | 10 | U | 5 | U | 5 | U | 5 | U |
| Dibromochloromethane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromoethane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chlorobenzene | 0.5 | U | 1 | U | 5 | | 5 | | 0.5 | U |
| Ethylbenzene | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Xylenes (total) | 0.5 | U | 1 | U | 0.5 | U | 0.1 | J | 0.5 | U |
| Styrene | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromoform | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 1 | J |
| Isopropylbenzene | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2,2-Tetrachloroethane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,3-Dichlorobenzene | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromo-3-chloropropane | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,4-Trichlorobenzene | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,3-Trichlorobenzene | 0.5 | U | 1 | U | 0.5 | U | 0.5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30450 SDG : E00X7
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : LIBRTY
Reviewer :
Date :

| Sample Number : | E00Y6 | | VBLKEI | | VBLKHU | | VHBLKEI | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G202 | | | | | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | | |
| Date Sampled : | 05/03/2002 | | | | | | | | | |
| Time Sampled : | 12:00 | | | | | | | | | |
| %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 | 0.5 | UJ | 0.5 | UJ | 0.5 | U | 0.5 | U | | |
| Chloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Vinyl Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Bromomethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Chloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Trichlorofluoromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,1-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Acetone | 5 | U | 2 | J | 5 | U | 5 | U | | |
| Carbon Disulfide | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Methyl Acetate | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ | | |
| Methylene Chloride | 0.5 | U | 0.22 | J | 0.2 | J | 0.5 | U | | |
| trans-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| tert-Butyl Methyl Ether | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,1-Dichloroethane | 0.5 | UJ | 0.5 | UJ | 0.5 | U | 0.5 | U | | |
| cis-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 2-Butanone | 5 | U | 5 | U | 5 | U | 5 | U | | |
| Bromochloromethane | 0.5 | UJ | 0.5 | UJ | 0.5 | U | 0.5 | U | | |
| Chloroform | 0.5 | UJ | 0.5 | UJ | 0.5 | U | 0.5 | U | | |
| 1,1,1-Trichloroethane | 0.5 | UJ | 0.5 | UJ | 0.5 | U | 0.5 | U | | |
| Cyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Carbon Tetrachloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Benzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Trichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Methylcyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2-Dichloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Bromodichloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| cis-1,3-Dichloropropene | 0.5 | U | 0.14 | J | 0.2 | J | 0.5 | U | | |
| 4-Methyl-2-pentanone | 5 | U | 5 | U | 5 | U | 5 | U | | |
| Toluene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| trans-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,1,2-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |

**Analytical Results (Qualified Data)**

Case #: 30450 SDG : E00X7
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : LIBRTY
Reviewer :
ate :

| Sample Number : | E00Y6 | | VBLKEI | | VBLKHU | | VHBLKEI | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G202 | | | | | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | | |
| Date Sampled : | 05/03/2002 | | | | | | | | | |
| Time Sampled : | 12:00 | | | | | | | | | |
| %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 |
| Tetrachloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 2-Hexanone | 5 | U | 5 | U | 5 | U | 5 | U | | |
| Dibromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2-Dibromoethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Chlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Ethylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Xylenes (total) | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Styrene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Bromoform | 0.9 | J | 0.9 | U | 0.7 | | 0.5 | U | | |
| Isopropylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,1,2,2-Tetrachloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,3-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,4-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2-Dibromo-3-chloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| ,2,4-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2,3-Trichlorobenzene | 0.5 | U | 0.2 | J | 0.5 | U | 0.5 | U | | |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5-21-02

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ELSWORTH INDUSTRIAL PARK (IL)

CASE NUMBER: 30450 SDG NUMBER: E00X7

Number and Type of Samples: 3 (WATER)

Sample Numbers: E00X7, E00Y5-6

Laboratory: Compuchem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

ORIGINAL

CompuChem
a division of Liberty Analytical Corp.

**Sample Delivery Group (SDG)**
**Cover Sheet**

SDG Number E00X7

| | | | |
|---|---|---|---|
| Laboratory Name | CompuChem | Laboratory Code | LIBRTY |
| Contract No. | 68W01043 | Case No. | 30450 |
| Analysis Price | $450.00 | SDG Turnaround | 21 |

EPA Sample Numbers in SDG (Listed in Numerical Order)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1) | E00X7 | 7) | | 13) | | 19) | |
| 2) | E00Y5 | 8) | | 14) | | 20) | |
| 3) | E00Y6 | 9) | | 15) | | 21) | |
| 4) | | 10) | | 16) | | 22) | |
| 5) | | 11) | | 17) | | 23) | |
| 6) | | 12) | | 18) | | 24) | |

| | |
|---|---|
| E00X7 | E00Y6 |
| First Sample in SDG | Last Sample in SDG |
| 05/06/02 | 05/06/02 |
| First Sample Receipt Date | Last Sample Receipt Date |

**Note**: There are a maximum of 20 **field** samples (excluding PE samples in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Alice Evans Date 05/06/02 14

# EPA Contract Laboratory Program
# Organic Traffic Report

| | |
|---|---|
| Case No: | 30450 |
| DAS No: | |
| SDG No: | E00X7 |

L

| | | | |
|---|---|---|---|
| Date Shipped: 5/3/02 | Date Received/Received by: 5/6/02 Alyce Evans | Sampler (Signature): James M. Salch | |
| Carrier Name: UPS | Lab Contract No: 68W01043 Unit Price: $ 450.00 | Relinquished By: [signature] | Date / Time: 5-3-02/1400 |
| Airbill: J1329630869 | Transfer To: | Relinquished By: | Date / Time: 5/6/02 900 |
| Shipped to: Liberty Analytical 501 Madison Avenue Cary NC 27513 (919) 379-4080 | Date Received/Received By: | Relinquished By: | Date / Time: |
| | Lab Contract No: Price: | | |

| Received By: |
|---|
| [signature] |
| Received By: [signature] |
| Received By: |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E00X7 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66009, 5-66010, 5-66011, 5-66012, 5-66013 (5) | G28 | 5/1/02 15:30 | | GOOD |
| E00Y5 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66024 (HCL), 5-66025 (HCL), 5-66026 (HCL), 5-66027 (HCL), 5-66028 (HCL) (5) | G201 | 5/1/02 7:00 | | |
| E00Y6 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66029 (HCL), 5-66030 (HCL) (2) | G202 | 5/3/02 12:00 | | SDG-FINAL SAMPLE |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? Y | Sample(s) to be used for laboratory QC: [redacted] G28 | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 9.7°C | Chain of Custody Seal Number: 87203 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? Y / Shipment Iced? Y |
| VOA = CLP TCL Volatiles | | | | |

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324206954-050302-0002

# CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050


MAY 21 2002

## SDG NARRATIVE
## CASE #30450
## SDG #E00X7
## CONTRACT # 68W01043

**SAMPLE IDENTIFICATIONS: E00X7(DL) E00Y5 E00Y6**

The three water samples listed above were received intact, at 9.7 degrees C, with proper documentation, in sealed shipping containers on May 06, 2002. All samples were submitted for volatile only analysis, and were prepared and analyzed following Contract Laboratory Program(CLP) Statement of Work(SOW), document OLC03.2. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 30450 SDG # E00X7 are included in the sample data sections. All pH values were measured at less than 2.0, and a copy of the pH results are included in the narrative section. Analysis Holding Time(AHT) requirements were met for all samples.

The example calculation with all relavent formulae are found in a sheet immediately following this narrative.

Target Compound List(TCL) analytes were only present at significant levels above the Contract Required Quantitation Limit(CRQL) in E00X7. The initial analysis of sample E00X7 exceeded calibration limits for cis-1,2-dichloroethene, and the sample was reanalyzed at an appropriate dilution, and we have reported and billed for both neat and diluted analyses.

No instrument blank separated concurrently analyzed samples E00X7, E00X7MS, and E00X7MSD all with cis-1,2-dichloroethene at levels which exceeded calibration limits, or at levels that may indicate carryover. Due to the fact that we are also providing a diluted reanalysis of E00X7 with all target analytes within calibration limits, and due to the fact that the matrix spikes met all QC precision and accuracy criteria, we are reporting the data with reference to this qualifier. Again no instrument blank separated samples E00X7MSD(with exceeding levels of cis-1,2-dichloroethene), and sample E00Y5. Due to the fact that no reportable levels of cis-1,2-dichloroethene were present in E00Y5, we are reporting the data with reference to this qualifier.

One reportable Tentatively Identified Compound(TIC) was present in E00X7, and E00X7DL.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for the initial, and continuing calibration standard(s) associated to this SDG
In a response to a Statement of Work(SOW) interpretation, Terry Smith, Program Manager for the Organic Contract Laboratory Program, stated that if the mass spectral interpretation specialist determines the TICs to be laboratory artifacts present in blanks, and their associated samples, there is no need to report them, and all other TICs not reported due to mass spectral interpretation specialist's assessment should be noted in the SDG narrative.
There are five general laboratory artifacts not reported on the Form 1 LCFs. There approximate retention times and origin are as follows:

| | | |
|---|---|---|
| 3.915 to 3.917 | minutes | methanol-d4, the solvent in which the DMCs are received from the supplier |
| 9.317 to 9.322 | minutes | cis-1,3-dichloropropene-d4: extra compound in the DMC solution |
| 11.186 to 11.187 | minutes | siloxane artifact |
| 12.309 to 12.310 | minutes | siloxane artifact |
| 13.627 to 13.632 | minutes | siloxane artifact |

These are present in the majority of standards, blanks, and samples.

The deuterated monitoring compounds (DMCs) met recovery criteria in the analyses of these samples with allowable minimal failures, and all of the internal standards met retention time and response criteria in the analyses of these samples.

The associated method blanks, and storage blank met all quality control criteria, and did not contain any target analytes above the CRQL with the exception of bromoform. These levels of bromoform are not believed to be sample constituents, and as noted below may be due to methanol back exchange, and as a contaminant in the DMC solution. Purging increasing amounts of the DMC solution yielded increasing amounts of bromoform.

Duplicate matrix spikes were generated from E00X7 as designated by the region, all QC precision and accuracy criteria were met.

Manual quantitations were performed on some of the process files in the associated initial and continuing calibrations, and in all samples except E00Y5. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

Low level hits of bromoform, and/or cis -1,3-dichloropropene are reported in the majority of samples and blanks. It is the laboratory's opinion that these hits are the result of reaction of the associated DMC solution with methanol(back exchange), and may not be actual sample constituents.

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/her designee, as verified by the following signature.

Roy Sutton
Case Reviewer
May 20, 2002

## SDG #E00X7

**Example Calculation for the Volatile Fraction**

**Calculation of RRF**

**RRF=(Ax*Cis)/Ais *Cx)**

**Where:** **Ax=Area of the characteristic ion(EICP) for the compound to be measured**
**Ais= Area of the chracteristic ion(EICP) for the specific internal standard**
**Cis= Concentration of the internal standard**
**Cx=Concentration of the compound to be measured**

**Example: Acetone RRF from CS020508B71(16:44)**

**Ax=20916**
**Ais=166781**
**Cis=125**
**Cx=625**

**RRF=(20916*125)/(166781*625)**
**= 0.02508**

Calculation of Concentration:
Concentration(ug/L)= (Ax*Is*Df)/(Ais*RRF*Vo)
Where: Ax= Area of the characteristic ion(EICP) for the compound to be measured
Ais=Area of the characteristic ion(EICP) for the internal standard
Is=Amount of the internal standard added in nanograms
RRF= The relative response factor from the continuing calibration standard
Vo=Total volume of water purged, in milliliters
Df=Dilution factor

Example: Concentration of acetone in E00Y5

Ax= 16468
Ais= 145924
Is= 125
RRF= 0.02508
Vo= 25
Df= 1.0

Concentration = (16468*125*1.0)/(145924*0.02508 *25)
= 22.498
= 22

**CompuChem**
a Division of Liberty Analytical Corp.

GC/MS VOA Batch Sheet - Water

IP 250/460/462/475/480B/483

Method: olc3

Batch #. _____

| SAMPLENUM | CLIENTID | LOGINNUM | pH | Time | Date | INST # | Operator | H/T | Volume | Bottle # | Report | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E00X7-1 | E00X7 | E00X7 | 1 | 1851 | 5-8-2 | 71 | 2323 | | 2TmL | 1 | DI | Cis-1,2 @ 28 |
| E00X7-2 | E00Y5 | E00X7 | 1 | 2001 | \| | \| | \| | | \| | 1 | ✓ | |
| E00X7-3 | E00Y6 | E00X7 | 1 | 2028 | \| | \| | \| | | \| | 1 | ✓ | |
| WG17270-1 | VBLKEI | | | | | | | | | | | |
| WG17270-2 | VBLKEJ | | | | | | | | | | | |
| WG17270-3 | VBLKEK | | | | | | | | | | | |
| WG17270-4 | E00X7MS | | 1 | 1915 | 5-8-2 | 71 | 2323 | | 2TmL | 1/2 | ✓ | |
| WG17270-5 | E00X7MSD | | 1 | 1939 | \| | \| | \| | | \| | 2 | ✓ | |
| WG17270-6 | ~~WAIT~~ | VHBLKEI | | 1842 | 5-14- | 71 | 2423 | | 25ml | | ✓ | |
| E00X7-10 | | | | 210 | 5-9-2 | 71 | 2323 | | 12mL | 3 | ✓ | |

NM 5/18 2

HT 5/16/02

Due 5/26/02

# COMPUCHEM

## Work Group Report (wk02)

*06-MAY-02 02:22 PM*

**Work Group:** WG17270

**Department:** 435 MS/VOA ANALYSIS

**Created:** 06-MAY-02

| Sample | Client ID | Product | Matrix | RecvDate | Bottle# | Lab Information |
|---|---|---|---|---|---|---|
| E00X7-1 | E00X7 | VOA-OLC03.2 | Water | 06-MAY-02 | | |
| E00X7-2 | E00Y5 | VOA-OLC03.2 | Water | 06-MAY-02 | | |
| E00X7-3 | E00Y6 | VOA-OLC03.2 | Water | 06-MAY-02 | | |
| WG17270-1 | VBLKEI | VOA-OLC03.2 | Water | 06-MAY-02 | | |
| WG17270-2 | VBLKEJ | VOA-OLC03.2 | Water | 06-MAY-02 | | |
| WG17270-3 | VBLKEK | VOA-OLC03.2 | Water | 06-MAY-02 | | |
| WG17270-4 | E00X7MS | VOA-OLC03.2 | Water | 06-MAY-02 | | |
| WG17270-5 | E00X7MSD | VOA-OLC03.2 | Water | 06-MAY-02 | | |
| WG17270-6 | WAIT | VOA-OLC03.2 | Water | 06-MAY-02 | | |

**Comments:**

| | |
|---|---|
| E00X7-1 | OLC03.2 USE FOR QC |
| E00X7-2 | OLC03.2 |
| E00X7-3 | OLC03.2 |

**Internal Chain of Custody**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Relinquished By | Cooler #23 | Date 5-5-2 | Received By | Ron Harris | Date 5-5-2 | Reason | Analysis |
| Relinquished By | Ron H | Date 5-5-2 | Received By | Cooler #23 | Date 5-5-2 | Reason | Temp Stay |
| Relinquished By | cooler 23 | Date 5-14 | Received By | MZ | Date 5-14 | Reason | Analysis |
| Relinquished By | MZ | Date 5-14 | Received By | Refrig | Date 5-14 | Reason | Storage |
| Relinquished By | | Date | Received By | | Date | Reason | |
| Relinquished By | | Date | Received By | | Date | Reason | |
| Relinquished By | | Date | Received By | | Date | Reason | |
| Relinquished By | | Date | Received By | | Date | Reason | 5/15/02 |

2LCA

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

| | EPA SAMPLE NO. | VDMC1 (VCL) # | VDMC2 (CLA) # | VDMC3 (DCE) # | VDMC4 (BUT) # | VDMC5 (CLF) # | VDMC6 (DCA) # | VDMC7 (BEN) # |
|---|---|---|---|---|---|---|---|---|
| 01 | VBLKEI | 106 | 100 | 70 | 104 | 86 | 102 | 100 |
| 02 | E00X7 | 94 | 88 | 64* | 106 | 76* | 96 | 92 |
| 03 | E00X7MS | 100 | 96 | 90 | 110 | 80 | 102 | 94 |
| 04 | E00X7MSD | 114 | 106 | 102 | 118 | 90 | 116 | 108 |
| 05 | E00Y5 | 106 | 102 | 70 | 100 | 98 | 112 | 98 |
| 06 | E00Y6 | 110 | 102 | 74 | 100 | 84 | 112 | 102 |
| 07 | E00X7DL | 100 | 98 | 73 | 110 | 98 | 110 | 100 |
| 08 | VBLKHU | 92 | 94 | 74 | 76 | 92 | 92 | 104 |
| 09 | VHBLKEI | 102 | 96 | 76 | 88 | 96 | 102 | 90 |
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| | | | QC LIMITS |
|---|---|---|---|
| VDMC1 | (VCL) | = Vinyl Chloride-d3 | (49-138) |
| VDMC2 | (CLA) | = Chloroethane-d5 | (60-126) |
| VDMC3 | (DCE) | = 1,1-Dichloroethene-d2 | (65-130) |
| VDMC4 | (BUT) | = 2-Butanone-d5 | (42-171) |
| VDMC5 | (CLF) | = Chloroform-d | (80-123) |
| VDMC6 | (DCA) | = 1,2-dichloroethane-d4 | (78-129) |
| VDMC7 | (BEN) | = Benzene-d6 | (78-121) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

2LCB

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

| | EPA SAMPLE NO. | VDMC8 (DPA) # | VDMC9 (TOL) # | VDMC10 (TDP) # | VDMC11 (HEX) # | VDMC12 (BRF) # | VDMC13 (TCA) # | VDMC14 (DCZ) # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|
| 01 | VBLKEI | 102 | 98 | 98 | 88 | 92 | 94 | 98 | 0 |
| 02 | E00X7 | 92 | 88 | 90 | 82 | 108 | 92 | 90 | 2 |
| 03 | E00X7MS | 94 | 94 | 88 | 72 | 106 | 100 | 96 | 0 |
| 04 | E00X7MSD | 114 | 102 | 102 | 100 | 150* | 104 | 110 | 1 |
| 05 | E00Y5 | 100 | 96 | 94 | 84 | 102 | 94 | 106 | 0 |
| 06 | E00Y6 | 102 | 94 | 98 | 92 | 100 | 102 | 104 | 0 |
| 07 | E00X7DL | 100 | 98 | 99 | 79 | 130 | 110 | 100 | 0 |
| 08 | VBLKHU | 100 | 102 | 92 | 84 | 98 | 82 | 104 | 0 |
| 09 | VHBLKEI | 98 | 92 | 92 | 92 | 96 | 92 | 102 | 0 |
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| | | | QC LIMITS |
|---|---|---|---|
| VDMC8 | (DPA) | = 1,2-Dichloropropane-d6 | (84-123) |
| VDMC9 | (TOL) | = Toluene-d8 | (77-120) |
| VDMC10 | (TDP) | = trans-1,3-Dichloropropene-d4 | (80-128) |
| VDMC11 | (HEX) | = 2-Hexanone-d5 | (37-169) |
| VDMC12 | (BRF) | = Bromoform-d | (76-135) |
| VDMC13 | (TCA) | = 1,1,2,2-Tetrachloroethane-d2 | (75-131) |
| VDMC14 | (DCZ) | = 1,2-Dichlorobenzene-d4 | (50-150) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

3LCA
LOW CONCENTRATION WATER VOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Matrix Spike - EPA Sample No.: E00X7

| COMPOUND | SPIKE ADDED (UG/L) | SAMPLE CONCENTRATION (UG/L) | MS CONCENTRATION (UG/L) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 0.0 | 4.4 | 88 | 61-145 |
| Benzene | 5.0 | 0.14 | 4.6 | 89 | 76-127 |
| Trichloroethene | 5.0 | 0.59 | 4.8 | 84 | 71-120 |
| Toluene | 5.0 | 0.14 | 4.6 | 89 | 76-125 |
| Chlorobenzene | 5.0 | 0.0 | 4.5 | 90 | 75-130 |

| COMPOUND | SPIKE ADDED (UG/L) | MSD CONCENTRATION (UG/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 4.8 | 96 | 9 | 14 | 61-145 |
| Benzene | 5.0 | 5.1 | 99 | 11 | 11 | 76-127 |
| Trichloroethene | 5.0 | 5.0 | 88 | 5 | 14 | 71-120 |
| Toluene | 5.0 | 4.9 | 95 | 7 | 13 | 76-125 |
| Chlorobenzene | 5.0 | 4.7 | 94 | 4 | 13 | 75-130 |

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

* Values outside of QC limits

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

COMMENTS:

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKEI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-1 Date Analyzed: 05/08/2002

Lab File ID: WG17270-1B71 Time Analyzed: 1709

Instrument ID: 5972HP71

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E00X7 | E00X7-1 | E00X7-1B71 | 1851 |
| 02 | E00X7MS | WG17270-4 | WG17270-4B71 | 1915 |
| 03 | E00X7MSD | WG17270-5 | WG17270-5B71 | 1939 |
| 04 | E00Y5 | E00X7-2 | E00X7-2B71 | 2004 |
| 05 | E00Y6 | E00X7-3 | E00X7-3B71 | 2028 |
| 06 | E00X7DL | E00X7-1 | E00X7-1DB71 | 0210 |
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COMMENTS:



FORM IV LCV OLC03.2

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BlANK SUMMARY

EPA SAMPLE NO.

VBLKHU

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17433-1 Date Analyzed: 05/14/2002

Lab File ID: WG17433-1A71 Time Analyzed: 0908

Instrument ID: 5972HP71

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | VHBLKEI | WG17270-6 | WG17270-6A71 | 1842 |
| 02 | | | | |
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COMMENTS:



FORM IV LCV OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00X7

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-1 Date Received: 05/06/2002

Lab File ID: E00X7-1B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 2.3 | |
| 74-83-9 | Bromomethane | 0.13 | J |
| 75-00-3 | Chloroethane | 0.15 | J |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.41 | J |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1.9 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.30 | J |
| 156-59-2 | cis-1,2-Dichloroethene | 28 | E |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.13 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 0.31 | J |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.14 | J |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00X7

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-1 Date Received: 05/06/2002

Lab File ID: E00X7-1B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.59 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | .50 ~~0.10~~ | JB u |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.14 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 1.4 | |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | .50 ~~0.33~~ | JB u |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00X7

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-1 Date Received: 05/06/2002

Lab File ID: E00X7-1B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 1

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | 354-23-4 | ETHANE, 1,2-DICHLORO-1,1,2-T | 5.11 | 1.2 | NJ |
| 02 | | | | | |
| 03 | | | | | |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00X7DL

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-1 Date Received: 05/06/2002

Lab File ID: E00X7-1DB71 Date Analyzed: 05/09/2002

Purge Volume: 25.0(ML) Dilution Factor: 2.1

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U |
| 74-87-3 | Chloromethane | 1.0 | U |
| 75-01-4 | Vinyl Chloride | 2.3 | D |
| 74-83-9 | Bromomethane | 1.0 | U |
| 75-00-3 | Chloroethane | 1.0 | U |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U |
| 67-64-1 | Acetone | 10 ~~7.6~~ | DJB |
| 75-15-0 | Carbon Disulfide | 1.0 | U |
| 79-20-9 | Methyl Acetate | 1.0 | U |
| 75-09-2 | Methylene Chloride | 1.0 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1.5 | D |
| 1634-04-4 | Methyl tert-Butyl Ether | 1.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.33 | DJ |
| 156-59-2 | cis-1,2-Dichloroethene | 27 | D |
| 78-93-3 | 2-Butanone | 10 | U |
| 74-97-5 | Bromochloromethane | 1.0 | U |
| 67-66-3 | Chloroform | 1.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.32 | DJ |
| 110-82-7 | Cyclohexane | 1.0 | U |
| 56-23-5 | Carbon Tetrachloride | 1.0 | U |
| 71-43-2 | Benzene | 1.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00X7DL

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-1 Date Received: 05/06/2002

Lab File ID: E00X7-1DB71 Date Analyzed: 05/09/2002

Purge Volume: 25.0(ML) Dilution Factor: 2.1

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.42 | DJ |
| 108-87-2 | Methylcyclohexane | 1.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U |
| 75-27-4 | Bromodichloromethane | 1.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 ~~0.28~~ | DJB |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 108-88-3 | Toluene | 0.24 | DJ |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U |
| 127-18-4 | Tetrachloroethene | 1.4 | D |
| 591-78-6 | 2-Hexanone | 10 | U |
| 124-48-1 | Dibromochloromethane | 1.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U |
| 108-90-7 | Chlorobenzene | 1.0 | U |
| 100-41-4 | Ethylbenzene | 1.0 | U |
| 1330-20-7 | Xylene (Total) | 1.0 | U |
| 100-42-5 | Styrene | 1.0 | U |
| 75-25-2 | Bromoform | 1.0 ~~0.88~~ | DJB |
| 98-82-8 | Isopropylbenzene | 1.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.0 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00X7DL

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-1 Date Received: 05/06/2002

Lab File ID: E00X7-1DB71 Date Analyzed: 05/09/2002

Purge Volume: 25.0(ML) Dilution Factor: 2.1

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 1

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | 354-23-4 | ETHANE, 1,2-DICHLORO-1,1,2-T | 5.10 | 1.5 | NJD |
| 02 | | | | | |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00X7MS

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-4 Date Received: 05/06/2002

Lab File ID: WG17270-4B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 1.4 | |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.4 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 ~~3.7~~ | JB u |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1.4 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.25 | J |
| 156-59-2 | cis-1,2-Dichloroethene | 23 | |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.14 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | J |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 4.6 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

RB 5

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00X7MS

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-4 Date Received: 05/06/2002

Lab File ID: WG17270-4B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 4.8 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 4.6 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.99 | |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 4.5 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 ~~0.33~~ | JB |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00X7MSD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-5 Date Received: 05/06/2002

Lab File ID: WG17270-5B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 1.7 | |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.8 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 ~~0.15~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 1.6 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.27 | J |
| 156-59-2 | cis-1,2-Dichloroethene | 27 | E |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.13 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 0.28 | J |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 5.1 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00X7MSD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-5 Date Received: 05/06/2002

Lab File ID: WG17270-5B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.0 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 ~~0.11~~ | JB u |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 4.9 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 1.4 | |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 4.7 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.11 | J |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 ~~0.42~~ | JB u |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Y5

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-2 Date Received: 05/06/2002

Lab File ID: E00X7-2B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 22 | B |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 ~~0.27~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.16 | J |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Y5

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-2 Date Received: 05/06/2002

Lab File ID: E00X7-2B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.23 | J |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.5 ~~0.10~~ | JB u |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.37 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.99 | B |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00Y5

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-2 Date Received: 05/06/2002

Lab File ID: E00X7-2B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Y6

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-3 Date Received: 05/06/2002

Lab File ID: E00X7-3B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | .5c ~~0.18~~ | JB 4 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Y6

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-3 Date Received: 05/06/2002

Lab File ID: E00X7-3B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | .50 ~~0.11~~ | JB U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.92 | B |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00Y6

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: E00X7-3 Date Received: 05/06/2002

Lab File ID: E00X7-3B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKEI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-1 Date Received: _____

Lab File ID: WG17270-1B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 1.7 | J |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.22 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKEI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-1 Date Received: _____

Lab File ID: WG17270-1B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.14 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.85 | |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.16 | J |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKEI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-1 Date Received: _____

Lab File ID: WG17270-1B71 Date Analyzed: 05/08/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKHU

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17433-1 Date Received: _____

Lab File ID: WG17433-1A71 Date Analyzed: 05/14/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.21 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKHU

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17433-1 Date Received: _____

Lab File ID: WG17433-1A71 Date Analyzed: 05/14/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.15 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.66 | |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKHU

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17433-1 Date Received: _____

Lab File ID: WG17433-1A71 Date Analyzed: 05/14/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLKEI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-6 Date Received: _____

Lab File ID: WG17270-6A71 Date Analyzed: 05/14/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | .50 ~~0.25~~ | JB 4 |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLKEI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-6 Date Received: _____

Lab File ID: WG17270-6A71 Date Analyzed: 05/14/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | .50 ~~0.13~~ | JB u |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.54 | B u |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKEI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30450 Client No.: SDG No.: E00X7

Lab Sample ID: WG17270-6 Date Received: _____

Lab File ID: WG17270-6A71 Date Analyzed: 05/14/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 02 | | | | | |
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FORM I LCV-TIC OLC03.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ECOX7 CERCLIS No: ILN000508246

Case No: 30450 Site Name Location: ELSWORTH INDUS. PARK

Contractor or EPA Lab: Compuchem Data User: IEPA

No. of Samples: 3 Date Sampled or Date Received: 5-21-02

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: Eva M. Dixon/ESAT Date: 5-21-02

Received by LSSS: Eva M. Dixon/ESAT Date: 5-21-02

Review started: 5/23/02 Reviewer Signature: [signature]

Total time spent on review: 5 Hours Date review completed: 5/24/02

Copied by: Eva M. Dixon/ESAT Date: 5-29-02

Mailed to user by: Eva M. Dixon/ESAT Date: 5-29-02

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

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. Date: ____

G-20
G-21 + 21D
G-203
G-204

DATE: June 19, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Ellsworth Industrial Park

| CASE NO. | LAB | NO. OF SAMPLES | SDG | MATRIX |
|---|---|---|---|---|
| 30472 | A4 Scientific | 5 | E0100 | 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: Eva M. Dixon, Sr. Data Specialist
ESAT

JUN 1 9 2002

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:_____

SUBJECT: Review of Data
Received for Review on June 3, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

Site name: Ellsworth Industrial Park (IL)

Case number: 30472 SDG Number: E0100

Number and Type of Samples: 5 water samples

Sample Numbers: E0100, E0101, E00Z4, E00Z8, E00Z9

Laboratory: A4 Scientific Hrs. for Review: _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

**Case Number : 30472**
**Site Name: Ellsworth Industrial Park (IL)**

**SDG Number: E0100**
**Laboratory: A4 Scientific**

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

Five water samples, numbered E0100, E0101, E00Z4, E00Z8 and E00Z9 were collected on 05/09-10/2002. The laboratory received the samples on 05/13/2002 in good condition. The samples were analyzed for only the list of volatile organic analytes. All samples were analyzed according to CLP SOW OLC03.2 and reviewed according to USEPA CLP National Guidelines for Low Concentration Organic Data Review (June 2001).

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: June 18, 2002

**Case Number : 30472**
**Site Name: Ellsworth Industrial Park (IL)**

**SDG Number: E0100**
**Laboratory: A4 Scientific**

## 1. 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 in which a SMC/DMC exceeded percent relative standard deviation (%RSD) criteria. Hits and non-detects are not flagged.

Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene
E00Z4, E00Z4MS, E00Z4MSD, E00Z8, E00Z9, E0100, E0101, VBLK02, VBLK03, VBLK11, VHBLK01

The following volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. Hits and non-detects are not flagged.

4-Methyl-2-pentanone, 2-Hexanone, Dibromochloromethane, 1,2-Dibromoethane, Bromoform
E00Z9, VBLK03, VBLK11, VHBLK01

The following volatile 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 "R".

Methyl Acetate
E00Z4, E00Z4MS, E00Z4MSD, E00Z8, E00Z9, E0100, E0101, VBLK02, VBLK03, VBLK11, VHBLK01

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".

Styrene, Isopropylbenzene, 1,2,3-Trichlorobenzene
E00Z4, E00Z4MS, E00Z4MSD, E0100, E0101, VBLK02, VBLK03, VBLK11, VHBLK01

The following volatile samples are associated with a continuing calibration relative response factor (RRF5) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

Methyl Acetate
E00Z4, E00Z4MS, E00Z4MSD, E00Z8, E0100, E0101, VBLK02

**Case Number : 30472**
**Site Name: Ellsworth Industrial Park (IL)**

**SDG Number: E0100**
**Laboratory: A4 Scientific**

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

Trichlorofluoromethane, Methyl tert-Butyl Ether, Carbon Tetrachloride, cis-1,3-Dichloropropene
E00Z9, VBLK03

Xylenes (total)
VBLK11, VHBLK01

1,2,3-Trichlorobenzene
E00Z4, E00Z4MS, E00Z4MSD, E0100, E0101, VBLK02

## 4. METHOD BLANKS

No problems were found for this qualification.

## 5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

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

E00Z4MS
Cyclohexane, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, Dibromochloromethane, 1,2-Dibromoethane, Bromoform

E0100
Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide, 1,1-Dichloroethane, Bromochloromethane, Chloroform, Dibromochloromethane, 1,2-Dibromoethane, Bromoform

E0101
Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide, 1,1-Dichloroethane, Bromochloromethane, Chloroform

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

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

E00Z4MS
Trichloroethene

## 7 FIELD BLANK AND FIELD DUPLICATE

**Case Number : 30472** **SDG Number: E0100**
**Site Name: Ellsworth Industrial Park (IL)** **Laboratory: A4 Scientific**

Samples E00Z8 and E00Z9 were identified as field duplicates. The results for all the duplicate samples are presented in the following table:

| Analytes dilution factor = | E00Z8 | E00Z9 |
|---|---|---|
| | 1.0 | 1.0 |
| Units | µg/L | µg/L |
| Carbon Disulfide | 0.30 J | 0.25 J |
| trans-1,2-Dichloroethene | 0.55 | 0.42 J |
| cis-1,2-Dichloroethene | 24 | 18 |
| Trichloroethene | 0.48 J | 0.52 |

Results are not qualified based upon the results of the field duplicates.

## 8. INTERNAL STANDARDS

No qualification were found for this qualification.

## 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

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

E00Z4
Toluene

E00Z4MS, E00Z4MSD
Carbon Disulfide

E00Z8
Carbon Disulfide, Trichloroethene

E00Z9
Carbon Disulfide, trans-1,2-Dichloroethene

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: June 18, 2002

**Case Number : 30472**
**Site Name: Ellsworth Industrial Park (IL)**

**SDG Number: E0100**
**Laboratory: A4 Scientific**

E0101
Methylene Chloride, Toluene

## 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

## 12. ADDITIONAL INFORMATION

The COCs list all samples as acid-preserved but samples tags for the samples were not marked as preserved. The pH for E00Z8 and E00Z9 were reported at 7 units. The reviewer took a conservative approach and qualified samples E00Z8 and E00Z9 as unpreserved.

The following volatile water samples were not properly preserved (pH=7). Hits for aromatics and ketones analytes are qualified "J" and non-detects are qualified "R".

E00Z8 and E00Z9
Acetone, 2-Butanone, Benzene, 4-Methyl-2-pentanone, Toluene, 2-Hexanone, Chlorobenzene, Ethylbenzene, Xylenes (total), Styrene, Isopropylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

The remaining compounds for E00Z8 and E00Z9 are qualified "J" and non-detects are qualified "UJ". However, if a analyte was qualified as "R" from other qualification, then "R" will be the final flag.

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: June 18, 2002

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. |

Low Concentration Volatile Sample Analysis

Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| | | Sample No.: | E00Z4MS |
| Sample Type: | Matrix Spike | | |
| b ID: | A4 | Location: | G20 |
| ase No.: | 30472 | Matrix/Level: | Water/ |
| SDG No.: | E0100 | File Name: | E0100 |

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| | UNKNOWN | 14.06 | 0.78 | J |

*Q: Laboratory Qualifier

Low Concentration Volatile Sample Analysis

Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| | | Sample No.: | E00Z4MSD |
| Sample Type: | Matrix Spike Duplicate | | |
| Lab ID: | A4 | Location: | G20 |
| Case No.: | 30472 | Matrix/Level: | Water/ |
| SDG No.: | E0100 | File Name: | E0100 |

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| | UNKNOWN | 14.06 | 0.78 | J |

*Q: Laboratory Qualifier

**Analytical Results (Qualified Data)**

Case #: 30472 SDG : E0100
Site ELLSWORTH INDUSTRIAL PARK
Lab : A4 Scientific
eviewer S. Tobin
Date 06-14-2002

Number of Soil Samples 0
Number of Water Samples : 5

| Sample Number : | E00Z4 | | E00Z4MS | | E00Z4MSD | | E00Z8 | | E00Z9 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G20 | | G20 | | G20 | | G21 | | G21D | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/09/2002 | | 05/09/2002 | | 05/09/2002 | | 05/10/2002 | | 05/10/2002 | |
| Time Sampled : | 11:30 | | 11:30 | | 11:30 | | 09:45 | | 09:45 | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | 2 | | 2 | | 2 | | 7 | | 7 | |
| 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 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Chloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Vinyl Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Bromomethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Chloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Trichlorofluoromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 1,1-Dichloroethene | 0.5 | U | 6 | | 6 | | 0.5 | UJ | 0.5 | UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Acetone | 5 | U | 5 | U | 5 | U | 5 | R | 0.5 | R |
| Carbon Disulfide | 0.6 | | 0.4 | J | 0.3 | J | 0.3 | J | 0.3 | J |
| Methyl Acetate | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Methylene Chloride | 0.5 | U | 3 | | 3 | | 0.5 | UJ | 0.5 | UJ |
| trans-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.6 | J | 0.4 | J |
| tert-Butyl Methyl Ether | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 1-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| cis-1,2-Dichloroethene | 2 | | 2 | | 1 | | 24 | J | 18 | J |
| 2-Butanone | 5 | U | 5 | U | 5 | U | 5 | R | 5 | R |
| Bromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Chloroform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 1,1,1-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Cyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Carbon Tetrachloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Benzene | 0.5 | U | 6 | | 6 | | 0.5 | R | 0.5 | R |
| 1,2-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Trichloroethene | 0.5 | U | 6 | | 6 | | 0.5 | J | 0.5 | J |
| Methylcyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 1,2-Dichloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Bromodichloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| cis-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 4-Methyl-2-pentanone | 5 | U | 5 | U | 5 | U | 5 | R | 5 | R |
| Toluene | 0.2 | J | 6 | | 6 | | 0.5 | R | 0.5 | R |
| trans-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 1,1,2-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |

**Analytical Results** (Qualified Data)

Case #: 30472 SDG : E0100

Site : ELLSWORTH INDUSTRIAL PARK

Lab. : A4 Scientific

Reviewer : S. Tobin

Date : 06-14-2002

Number of Soil Samples : 0

Number of Water Samples 5

| Sample Number : | E00Z4 | | E00Z4MS | | E00Z4MSD | | E00Z8 | | E00Z9 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G20 | | G20 | | G20 | | G21 | | G21D | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/09/2002 | | 05/09/2002 | | 05/09/2002 | | 05/10/2002 | | 05/10/2002 | |
| Time Sampled : | 11:30 | | 11:30 | | 11:30 | | 09:45 | | 09:45 | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | 2 | | 2 | | 2 | | 7 | | 7 | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Tetrachloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 2-Hexanone | 5 | U | 5 | U | 5 | U | 5 | R | 5 | R |
| Dibromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 1,2-Dibromoethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Chlorobenzene | 0.5 | U | 6 | | 5 | | 0.5 | R | 0.5 | R |
| Ethylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | R | 0.5 | R |
| Xylenes (total) | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | R | 0.5 | R |
| Styrene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | R | 0.5 | R |
| Bromoform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| Isopropylbenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | R | 0.5 | R |
| 1,1,2,2-Tetrachloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 1,3-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | R | 0.5 | R |
| 1,4-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | R | 0.5 | R |
| 1,2-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | R | 0.5 | R |
| 1,2-Dibromo-3-chloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 1,2,4-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | R | 0.5 | R |
| 1,2,3-Trichlorobenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | R | 0.5 | R |

**Analytical Results (Qualified Data)**

Case # 30472 SDG : E0100
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4 Scientific
eviewer : S. Tobin
Date : 06-14-2002

Number of Soil Samples : 0
Number of Water Samples : 5

| Sample Number : | E0100 | | E0101 | | VBLK02 | | VBLK03 | | VBLK11 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G203 | | G204 | | | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/10/2002 | | 05/10/2002 | | | | | | | |
| Time Sampled : | 10:30 | | 10:45 | | | | | | | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | 2 | | 2 | | | | | | | |
| 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 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Vinyl Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromomethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichlorofluoromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U |
| 1,1-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Acetone | 5 | U | 13 | | 5 | U | 5 | U | 5 | U |
| Carbon Disulfide | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl Acetate | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Methylene Chloride | 0.5 | U | 0.3 | J | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| tert-Butyl Methyl Ether | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U |
| 1-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Butanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Bromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,1-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Cyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Carbon Tetrachloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U |
| Benzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methylcyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromodichloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U |
| 4-Methyl-2-pentanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Toluene | 0.5 | U | 0.3 | J | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30472 SDG : E0100

Site : ELLSWORTH INDUSTRIAL PARK

Lab. : A4 Scientific

Reviewer S. Tobin

Date : 06-14-2002

Number of Soil Samples : 0

Number of Water Samples : 5

| Sample Number : | E0100 | | E0101 | | VBLK02 | | VBLK03 | | VBLK11 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G203 | | G204 | | | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/10/2002 | | 05/10/2002 | | | | | | | |
| Time Sampled : | 10:30 | | 10:45 | | | | | | | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | 2 | | 2 | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Tetrachloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Hexanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Dibromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromoethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Ethylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Xylenes (total) | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Styrene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Bromoform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Isopropylbenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,1,2,2-Tetrachloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,3-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Dibromo-3-chloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,4-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,3-Trichlorobenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |

**Analytical Results** (Qualified Data)

Case #: 30472 SDG : E0100
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4 Scientific
Reviewer : S. Tobin
Date : 06-14-2002

Number of Soil Samples : 0
Number of Water Samples : 5

| Sample Number : | VHBLK01 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Water | | | | | | | | | |
| Units : | ug/L | | | | | | | | | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | N/A | | | | | | | | | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | | | | | | | | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 0.5 | U | | | | | | | | |
| Chloromethane | 0.5 | U | | | | | | | | |
| Vinyl Chloride | 0.5 | U | | | | | | | | |
| Bromomethane | 0.5 | U | | | | | | | | |
| Chloroethane | 0.5 | U | | | | | | | | |
| Trichlorofluoromethane | 0.5 | U | | | | | | | | |
| 1,1-Dichloroethene | 0.5 | U | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | | | | | | | | |
| Acetone | 5 | U | | | | | | | | |
| Carbon Disulfide | 0.5 | U | | | | | | | | |
| Methyl Acetate | 0.5 | R | | | | | | | | |
| Methylene Chloride | 0.5 | U | | | | | | | | |
| trans-1,2-Dichloroethene | 0.5 | U | | | | | | | | |
| tert-Butyl Methyl Ether | 0.5 | U | | | | | | | | |
| 1-Dichloroethane | 0.5 | U | | | | | | | | |
| cis-1,2-Dichloroethene | 0.5 | U | | | | | | | | |
| 2-Butanone | 5 | U | | | | | | | | |
| Bromochloromethane | 0.5 | U | | | | | | | | |
| Chloroform | 0.5 | U | | | | | | | | |
| 1,1,1-Trichloroethane | 0.5 | U | | | | | | | | |
| Cyclohexane | 0.5 | U | | | | | | | | |
| Carbon Tetrachloride | 0.5 | U | | | | | | | | |
| Benzene | 0.5 | U | | | | | | | | |
| 1,2-Dichloroethane | 0.5 | U | | | | | | | | |
| Trichloroethene | 0.5 | U | | | | | | | | |
| Methylcyclohexane | 0.5 | U | | | | | | | | |
| 1,2-Dichloropropane | 0.5 | U | | | | | | | | |
| Bromodichloromethane | 0.5 | U | | | | | | | | |
| cis-1,3-Dichloropropene | 0.5 | U | | | | | | | | |
| 4-Methyl-2-pentanone | 5 | U | | | | | | | | |
| Toluene | 0.5 | U | | | | | | | | |
| trans-1,3-Dichloropropene | 0.5 | U | | | | | | | | |
| 1,1,2-Trichloroethane | 0.5 | U | | | | | | | | |

**Analytical Results** (Qualified Data)

Case #: 30472 SDG : E0100

Site : ELLSWORTH INDUSTRIAL PARK

Lab. : A4 Scientific

eviewer : S. Tobin

Date : 06-14-2002

Number of Soil Samples : 0

Number of Water Samples : 5

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Number : | VHBLK01 | | | | | | | | | |
| Sampling Location : | | | | | | | | | | |
| Matrix : | Water | | | | | | | | | |
| Units : | ug/L | | | | | | | | | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | N/A | | | | | | | | | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | | | | | | | | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Tetrachloroethene | 0.5 | U | | | | | | | | |
| 2-Hexanone | 5 | U | | | | | | | | |
| Dibromochloromethane | 0.5 | U | | | | | | | | |
| 1,2-Dibromoethane | 0.5 | U | | | | | | | | |
| Chlorobenzene | 0.5 | U | | | | | | | | |
| Ethylbenzene | 0.5 | U | | | | | | | | |
| Xylenes (total) | 0.5 | UJ | | | | | | | | |
| Styrene | 0.5 | UJ | | | | | | | | |
| Bromoform | 0.5 | U | | | | | | | | |
| Isopropylbenzene | 0.5 | UJ | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.5 | U | | | | | | | | |
| 1,3-Dichlorobenzene | 0.5 | U | | | | | | | | |
| 1,4-Dichlorobenzene | 0.5 | U | | | | | | | | |
| 1,2-Dichlorobenzene | 0.5 | U | | | | | | | | |
| 2-Dibromo-3-chloropropane | 0.5 | U | | | | | | | | |
| 1,2,4-Trichlorobenzene | 0.5 | U | | | | | | | | |
| 1,2,3-Trichlorobenzene | 0.5 | UJ | | | | | | | | |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 6-3-02

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Elsworth Industrial Park (IL)

CASE NUMBER: 30472 SDG NUMBER: ~~E0100~~ ~~E0024~~ EMD E0100 5

Number and Type of Samples: 5 (Water)

Sample Numbers: E0100-01, E0024, E0028-9

Laboratory: All Scientific Hrs for Review: _____

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

# Sample Delivery Group (SDG)
# Cover Sheet

SDG Number: **E0100**

Laboratory Name: **A4 Scientific, Inc.**

Laboratory Code: **A4**

Contract No.: **68W01038**

Case No.: **30472**

Analysis Price: **$ 390.00**

SDG Turnaround: **21 days**

EPA Sample Numbers in SDG (Listed in Numerical Order)

| | | | |
|---|---|---|---|
| 1) E0100 | 7) | 13) | 19) |
| 2) E0101 | 8) | 14) | 20) |
| 3) E00Z4 | 9) | 15) | 21) |
| 4) E00Z8 | 10) | 16) | 22) |
| 5) E00Z9 | 11) | 17) | 23) |
| 6) | 12) | 18) | 24) |

| | |
|---|---|
| E0100 | E00Z9 |
| First Sample in SDG | Last Sample in SDG |
| 05/13/02 | 05/13/02 |
| First Sample Receipt Date | Last Sample Receipt Date |

***Note:*** *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature [signature] Date 5/21/02

# U[illegible]PA Contract Laboratory Program
# Organic Traffic Report

**Case No:** 30472
DAS No:
SDG No: E0100

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| | | |
|---|---|---|
| Date Shipped: 5/10/02<br>Carrier Name: UPS<br>Airbill: 1Z 621 589 22 1002 049 5<br>Shipped to: A4 Scientific<br>1544 Sawdust Road<br>The Woodlands TX 77380<br>(218) 292-5277 | Date Received/Received by: 5-13-02 Carlos Pim<br>Lab Contract No: 681001038 Unit Price: 390.00<br>Transfer To:<br>Date Received/Received By:<br>Lab Contract No: Price: | Sampler (Signature): James M. Salch<br>Relinquished By: James M. Salch — Date / Time: 5/10/02 1450 — Received By:<br>Relinquished By: — Date / Time: 5-13-02 9:25 — Received By: Carlos Pim<br>Relinquished By: — Date / Time: — Received By: |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E00Z4 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66039 (HCL), 5-66040 (HCL), 5-66041 (HCL), 5-66042 (HCL), 5-66043 (HCL), 5-66044 (HCL), 5-66045 (HCL), 5-66046 (HCL), 5-66047 (HCL), 5-66048 (HCL), 5-66049 (HCL), 5-66050 (HCL), 5-66051 (HCL), 5-66052 (HCL), 5-66053 (HCL) (15) | G20 | 5/9/02 11:30 | | |
| E00Z8 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66058 (HCL), 5-66059 (HCL), 5-66060 (HCL), 5-66061 (HCL), 5-66062 (HCL) (5) | G21 | 5/10/02 9:45 | | |
| E00Z9 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66063 (HCL), 5-66064 (HCL), 5-66065 (HCL), 5-66066 (HCL), 5-66067 (HCL) (5) | G21 D | 5/10/02 9:45 | | |
| E0100 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66068 (HCL), 5-66069 (HCL) (2) | G203 | 5/10/02 10:30 | | |
| E0101 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66070 (HCL), 5-66071 (HCL), 5-66072 (HCL), 5-66073 (HCL), 5-66074 (HCL) (5) | G204 | 5/10/02 10:45 | | |

0003

| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: E00Z4 | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 4°C, 5°C | Chain of Custody Seal Number: 87206, 87207 |
|---|---|---|---|---|
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? Y — Shipment Iced? Y |

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

**TR Number: 5-324306854-051002-0001**

# U.S. EPA Contract Laboratory Program
# Organic Traffic Report

| | |
|---|---|
| Case No: | 30472 |
| DAS No: | |
| SDG No: | E0100 |

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| | | | |
|---|---|---|---|
| Date Shipped: 5/10/02 | Date Received/Received by: 5/13/02 Carlos Pirir | Sampler (Signature): James M. Salch | |
| Carrier Name: UPS | Lab Contract No: 68W01038 Unit Price: 390.00 | Relinquished By: James M. Salch | Date/ Time: 1450 5/10/02 | Received By: |
| Airbill: 1Z 621 589 22 1002 049 5 | Transfer To: | Relinquished By: | Date / Time: 5-13-02 9:25 | Received By: Carlos Pirir |
| Shipped to: A4 Scientific, 1544 Sawdust Road, The Woodlands TX 77380, (218) 292-5277 | Date Received/Received By: 5/13 Lab Contract No: Price: | Relinquished By: | Date / Time: | Received By: |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E00Z4 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66039 (HCL), 5-66040 (HCL), 5-66041 (HCL), 5-66042 (HCL), 5-66043 (HCL), 5-66044 (HCL), 5-66045 (HCL), 5-66046 (HCL), 5-66047 (HCL), 5-66048 (HCL), 5-66049 (HCL), 5-66050 (HCL), 5-66051 (HCL), 5-66052 (HCL), 5-66053 (HCL) (15) | G20 | 5/9/02 11:30 | | |
| E00Z8 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66058 (HCL), 5-66059 (HCL), 5-66060 (HCL), 5-66061 (HCL), 5-66062 (HCL) (5) | G21 | 5/10/02 9:45 | | |
| E00Z9 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66063 (HCL), 5-66064 (HCL), 5-66065 (HCL), 5-66066 (HCL), 5-66067 (HCL) (5) | G21 D | 5/10/02 9:45 | | |
| E0100 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66068 (HCL), 5-66069 (HCL) (2) | G203 | 5/10/02 10:30 | | |
| E0101 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66070 (HCL), 5-66071 (HCL), 5-66072 (HCL), 5-66073 (HCL), 5-66074 (HCL) (5) | G204 | 5/10/02 10:45 | | |

0004

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: E00Z4 | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 4°C, 5°C | Chain of Custody Seal Number: 87206, 87207 |
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? Y Shipment Iced? Y |

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

**TR Number: 5-324306854-051002-0001**

# A4 SCIENTIFIC, INC.

1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277

JUN 03 2002

| Contract #: 68W01038 | Case #: 30472 | SDG #: E0100 |
|---|---|---|

## SDG NARRATIVE

### SAMPLE RECEIPT & LOGIN:

The following samples were received on the dates listed against them.

| EPA SAMPLE # | LAB SAMPLE # | DATE /TIME RECEIVED | AIRBILL NO. | VOA | BNA | PEST | REMARKS |
|---|---|---|---|---|---|---|---|
| E00Z4 | 1598.002 | 05/13/02 09:25 | 1Z6215892210020495 & J1360181401 | x | | | MS/MSD |
| E00Z8 | 1598.003 | 05/13/02 09:25 | 1Z6215892210020495 & J1360181401 | x | | | |
| E00Z9 | 1598.004 | 05/13/02 09:25 | 1Z6215892210020495 & J1360181401 | x | | | |
| E0100 | 1598.005 | 05/13/02 09:25 | 1Z6215892210020495 & J1360181401 | x | | | |
| E0101 | 1598.006 | 05/13/02 09:25 | 1Z6215892210020495 & J1360181401 | x | | | |

The coolers temperature was 4.0°C and 5.0°C. Per scheduling notification form NO MS/MSD required for this Case, while the TR/COC for the samples received on 5/13/02 marked the sample E00Z4 for MS/MSD. Lab contacted SMO and resolved that the lab can proceed with MS/MSD as noted on TR/COC. No other discrepancies or issues were noted during sample receipt and login.

### VOLATILES:

All samples were analyzed on a HP5973 GC-MS using a 60-meter RTX-624 column having a 0.32mm ID and 1.8µm film thickness. An ENCON Purge and Trap with an Archon autosampler was used. The trap used was an OV-1/Tenax/Silica Gel/Charcoal (equivalent to Tekmar #5). A 25mL purge volume was used for all samples, blanks, and standards.

The COC/TR marked HCL as preservative for all the samples, while the pH for the samples E0100 and E0101 was < 2 units, for the samples E00Z8 and E00Z9 the pH was 7 units, and for the sample E00Z4 some of the vials have a pH of 2 units and some have a pH of 7 units.

MS/MSD was performed for the sample E00Z4.

*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/her designee, as verified by the following signature:*

Signature and Title

5/31/02

Date of Signature

## Sumitra

**From:** "Brown, Jessica" <Jessica.Brown@dyncorp.com>
**To:** "'Sumitra'" <sumitra@a4scientific.com>
**Sent:** Friday, May 17, 2002 4:20 PM
**Subject:** RE: Region 05 | Case 30472 | Lab A4 | Issue TR/COC discrepancy - laboratory QC | FINAL

This is Heather Bauer. Holly and Jessica are out office the office this afternoon.

The lab should proceed with MS/MSD as directed on the TR/COC.

-----Original Message-----
**From:** Sumitra [mailto:sumitra@a4scientific.com]
**Sent:** Friday, May 17, 2002 5:22 PM
**To:** Brown, Jessica
**Subject:** Re: Region 05 | Case 30472 | Lab A4 | Issue TR/COC discrepancy - laboratory QC | FINAL

Heather,

Per my understanding from the e-mail below, the lab should perform MS/MSD on the samples designated. Please confirm.

Thanks,
Sumitra.

----- Original Message -----
**From:** Brown, Jessica
**To:** Sumitra Sheeri (E-mail)
**Cc:** Howard Pham (E-mail) ; Bob Casper (E-mail) ; Mark Wagner (E-mail 2)
**Sent:** Friday, May 17, 2002 4:02 PM
**Subject:** Region 05 | Case 30472 | Lab A4 | Issue TR/COC discrepancy - laboratory QC | FINAL

Sumitra,
This is Heather Bauer. Both Holly and Jessica are out of the office this afternoon.

Following is the resolution from Region 5. Per the Region, the lab should analyze the samples designated for laboratory QC. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

-----Original Message-----
**From:** HOWARD PHAM [mailto:H161259@msn.com]
**Sent:** Friday, May 17, 2002 4:57 PM
**To:** Brown, Jessica
**Subject:** Re: Region 05 | Case 30472 | Lab A4 | Issue TR/COC discrepancy - laboratory QC

Hi Jessica,

Please ask the lab analyses the samples designated as lab QC.

Thanks,

Howard Pham

----- Original Message -----
**From:** Brown, Jessica
**Sent:** Friday, May 17, 2002 2:14 PM
**To:** Bob Casper (E-mail); Mark Wagner (E-mail 2)
**Cc:** Howard Pham (E-mail); Howard Pham (Home) (E-mail); Steve Peterson (E-mail)
**Subject:** Region 05 | Case 30472 | Lab A4 | Issue TR/COC discrepancy - laboratory QC

This is Holly Rogers. Jessica is out for the day.

Following is an email from A4 regarding lab QC issues for Case 30472. Please see below and advise the lab how to proceed.

Thanks,
Holly

-----Original Message-----
**From:** Sumitra [mailto:sumitra@a4scientific.com]
**Sent:** Friday, May 17, 2002 3:02 PM
**To:** Brown, Jessica
**Cc:** Rogers, Holly
**Subject:** TR/COC Discrepancy for Case 30472.

Hi Holly/Jessica,

The lab received 5 VOA sample on 0513/02. The TR/COC marked the sample E00Z4 for lab QC.
As per Scheduling Notification Form, NO MS/MSD required for this Case.

Also the lab received 4 VOA sample on 0516/02. The TR/COC marked the sample E00Z2 for lab QC.
As per Scheduling Notification Form, NO MS/MSD required for this Case.

Please advise.

Thanks,
Sumitra

2LCA

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

| | EPA SAMPLE NO. | VDMC1 (VCL) # | VDMC2 (CLA) # | VDMC3 (DCE) # | VDMC4 (BUT) # | VDMC5 (CLF) # | VDMC6 (DCA) # | VDMC7 (BEN) # |
|---|---|---|---|---|---|---|---|---|
| 01 | VBLK02 | 118 | 116 | 84 | 72 | 116 | 116 | 98 |
| 02 | E00Z4 | 112 | 118 | 84 | 98 | 116 | 112 | 106 |
| 03 | E00Z8 | 96 | 106 | 74 | 106 | 114 | 114 | 106 |
| 04 | E0100 | 124 | 132 * | 86 | 116 | 124 * | 120 | 102 |
| 05 | E0101 | 130 | 132 * | 88 | 112 | 128 * | 122 | 104 |
| 06 | E00Z4MS | 104 | 118 | 114 | 106 | 120 | 122 | 110 |
| 07 | E00Z4MSD | 98 | 118 | 108 | 106 | 118 | 120 | 102 |
| 08 | VBLK03 | 94 | 92 | 72 | 120 | 92 | 92 | 96 |
| 09 | E00Z9 | 92 | 94 | 72 | 122 | 96 | 98 | 102 |
| 10 | VBLK11 | 106 | 112 | 78 | 112 | 112 | 106 | 82 |
| 11 | VHBLK01 | 106 | 114 | 78 | 144 | 114 | 112 | 82 |
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| | | | QC LIMITS |
|---|---|---|---|
| VDMC1 | (VCL) | = Vinyl Chloride-d3 | (49-138) |
| VDMC2 | (CLA) | = Chloroethane-d5 | (60-126) |
| VDMC3 | (DCE) | = 1,1-Dichloroethene-d2 | (65-130) |
| VDMC4 | (BUT) | = 2-Butanone-d5 | (42-171) |
| VDMC5 | (CLF) | = Chloroform-d | (80-123) |
| VDMC6 | (DCA) | = 1,2-Dichloroethane-d4 | (78-129) |
| VDMC7 | (BNE) | = Benzene-d6 | (78-121) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCB

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

| | EPA SAMPLE NO. | VDMC8 (DPA) # | VDMC9 (TOL) # | VDMC10 (TDP) # | VDMC11 (HEX) # | VDMC12 (BRF) # | VDMC13 (TCA) # | VDMC14 (DCZ) # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|
| 01 | VBLK02 | 106 | 98 | 100 | 60 | 118 | 92 | 104 | 0 |
| 02 | E00Z4 | 114 | 102 | 102 | 78 | 122 | 106 | 122 | 0 |
| 03 | E00Z8 | 110 | 102 | 102 | 88 | 116 | 112 | 112 | 0 |
| 04 | E0100 | 116 | 102 | 100 | 64 | 136 * | 106 | 112 | 3 |
| 05 | E0101 | 112 | 104 | 102 | 92 | 116 | 110 | 116 | 2 |
| 06 | E00Z4MS | 126 * | 106 | 122 | 78 | 150 * | 122 | 118 | 2 |
| 07 | E00Z4MSD | 120 | 98 | 118 | 108 | 132 | 108 | 114 | 0 |
| 08 | VBLK03 | 94 | 96 | 94 | 86 | 90 | 94 | 94 | 0 |
| 09 | E00Z9 | 100 | 102 | 96 | 92 | 82 | 100 | 100 | 0 |
| 10 | VBLK11 | 96 | 78 | 88 | 54 | 84 | 84 | 94 | 0 |
| 11 | VHBLK01 | 98 | 82 | 82 | 100 | 92 | 98 | 102 | 0 |
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| | | | QC LIMITS |
|---|---|---|---|
| VDMC8 | (DPA) | = 1,2-Dichloropropane-d6 | (84-123) |
| VDMC9 | (TOL) | = Toluene-d8 | (77-120) |
| VDMC10 | (TDP) | = trans-1,3-Dichloropropene-d4 | (80-128) |
| VDMC11 | (HEX) | = 2-Hexanone-d5 | (37-169) |
| VDMC12 | (BRF) | = Bromoform-d | (76-135) |
| VDMC13 | (TCA) | = 1,1,2,2-Tetrachloroethane-d2 | (75-131) |
| VDMC14 | (DCZ) | = 1,2-Dichlorobenzene-d4 | (50-150) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits



FORM II LCV-2 OLC03.2

3LCA
LOW CONCENTRATION WATER VOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Marix Spike - EPA Sample No.: E00Z4

| COMPOUND | SPIKE ADDED (UG/L) | SAMPLE CONCENTRATION (UG/L) | MS CONCENTRATION (UG/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 0 | 6.4 | 128 | 61-145 |
| Benzene | 5.0 | 0 | 6.3 | 126 | 76-127 |
| Trichloroethene | 5.0 | 0 | 6.1 | 122 * | 71-120 |
| Toluene | 5.0 | 0.20 | 6.3 | 122 | 76-125 |
| Chlorobenzene | 5.0 | 0 | 5.6 | 112 | 75-130 |

| COMPOUND | SPIKE ADDED (UG/L) | MSD CONCENTRATION (UG/L) | MSD % REC # | RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 6.0 | 120 | 6 | 14 | 61-145 |
| Benzene | 5.0 | 5.8 | 116 | 8 | 11 | 76-127 |
| Trichloroethene | 5.0 | 5.7 | 114 | 7 | 14 | 71-120 |
| Toluene | 5.0 | 5.8 | 112 | 9 | 13 | 76-125 |
| Chlorobenzene | 5.0 | 5.2 | 104 | 7 | 13 | 75-130 |

# Column to be used to flag recovery and RPD Values with an asterisk

* Values outside of QC limits.

RPD: 0 out of 5 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS: _____

4LCA

LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK02 Date Analyzed: 05/22/2002

Lab File ID: C5416 Time Analyzed: 1516

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E00Z4 | 1598.002 | C5417 | 1549 |
| 02 | E00Z8 | 1598.003 | C5418 | 1622 |
| 03 | E0100 | 1598.005 | C5420 | 1729 |
| 04 | E0101 | 1598.006 | C5421 | 1801 |
| 05 | E00Z4MS | 1598.002MS | C5422 | 1834 |
| 06 | E00Z4MSD | 1598.002MSD | C5423 | 1907 |
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COMMENTS _____

4LCA

LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK03

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK03 Date Analyzed: 05/23/2002

Lab File ID: C5443 Time Analyzed: 1747

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E00Z9 | 1598.004 | C5444 | 1820 |
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COMMENTS _____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK11

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK11 Date Analyzed: 05/31/2002

Lab File ID: C5587 Time Analyzed: 1207

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | VHBLK01 | 1598.001 | C5588 | 1240 |
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COMMENTS _____



FORM IV LCV

OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0100

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.005 Date Received: 05/13/2002

Lab File ID: C5420 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0100

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.005 Date Received: 05/13/2002

Lab File ID: C5420 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0100

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.005 Date Received: 05/13/2002

Lab File ID: C5420 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 1

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | UNKNOWN | 14.06 | 1.5 | J |
| 02 | | | | | |
| 03 | | | | | |
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1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E0101

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.006 Date Received: 05/13/2002

Lab File ID: C5421 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 13 | |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.29 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0101

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.006 Date Received: 05/13/2002

Lab File ID: C5421 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.29 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0101

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.006 Date Received: 05/13/2002

Lab File ID: C5421 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 1

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | UNKNOWN | 14.06 | 0.78 | J |
| 02 | | | | | |
| 03 | | | | | |
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1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E00Z4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.002 Date Received: 05/13/2002

Lab File ID: C5417 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.55 | |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1.6 | |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E00Z4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.002 Date Received: 05/13/2002

Lab File ID: C5417 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.20 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00Z4

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.002 Date Received: 05/13/2002

Lab File ID: C5417 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 02 | | | | | |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z4MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.002MS Date Received: 05/13/2002

Lab File ID: C5422 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 6.4 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.36 | J |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 2.7 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1.9 | |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 6.3 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z4MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.002MS Date Received: 05/13/2002

Lab File ID: C5422 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 6.1 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 6.3 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 5.6 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E00Z4MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.002MSD Date Received: 05/13/2002

Lab File ID: C5423 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 6.0 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.26 | J |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 2.7 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1.4 | |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 5.8 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z4MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.002MSD Date Received: 05/13/2002

Lab File ID: C5423 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.7 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 5.8 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 5.2 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E00Z8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.003 Date Received: 05/13/2002

Lab File ID: C5418 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.30 | J |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.55 | |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 24 | |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E00Z8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.003 Date Received: 05/13/2002

Lab File ID: C5418 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.48 | J |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00Z8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.003 Date Received: 05/13/2002

Lab File ID: C5418 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E00Z9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.004 Date Received: 05/13/2002

Lab File ID: C5444 Date Analyzed: 05/23/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.25 | J |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.42 | J |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 18 | |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.004 Date Received: 05/13/2002

Lab File ID: C5444 Date Analyzed: 05/23/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.52 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00Z9

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.004 Date Received: 05/13/2002

Lab File ID: C5444 Date Analyzed: 05/23/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK02 Date Received: _____

Lab File ID: C5416 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK02 Date Received: _____

Lab File ID: C5416 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK02 Date Received: _____

Lab File ID: C5416 Date Analyzed: 05/22/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK03 Date Received: _____

Lab File ID: C5443 Date Analyzed: 05/23/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK03 Date Received: _____

Lab File ID: C5443 Date Analyzed: 05/23/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK03 Date Received: _____

Lab File ID: C5443 Date Analyzed: 05/23/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

VBLK11

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK11 Date Received: _____

Lab File ID: C5587 Date Analyzed: 05/31/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK11

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK11 Date Received: _____

Lab File ID: C5587 Date Analyzed: 05/31/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK11

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: CVBLK11 Date Received: _____

Lab File ID: C5587 Date Analyzed: 05/31/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 02 | | | | | |
| 03 | | | | | |
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1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.001 Date Received: _____

Lab File ID: C5588 Date Analyzed: 05/31/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.001 Date Received: _____

Lab File ID: C5588 Date Analyzed: 05/31/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E0100

Lab Sample ID: 1598.001 Date Received: _____

Lab File ID: C5588 Date Analyzed: 05/31/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ~~E6621~~ E00106 EMD CERCLIS No: ILNCCC508246

Case No: 30472 Site Name/Location: ELSWORTH INDUS. PARK

Contractor or EPA Lab: A4 SCIENTIFIC Data User: EPA

No. of Samples: 5 Date Sampled or Date Received: 6-3-02

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: Ena M. Dixon/ESAI Date: 6-3-02

Received by LSSS: Ena M. Dixon/ESAI Date: 6-3-02

Review started: 06-12-02 Reviewer Signature: Stephanie Tobin

Total time spent on review: ____ Date review completed: ____

Copied by: Ena M. Dixon/ESAI Date: 6-19-02

Mailed to user by: Ena M. Dixon/ESAI Date: 6-19-02

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

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. Date: ____

G-15
G-36
G-16
G-205
G-18
G-24 + 24D
G-206
G-207

DATE: June 24, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Ellsworth Industrial Park

| CASE NO. | LAB | NO. OF SAMPLES | SDG | MATRIX |
|---|---|---|---|---|
| 30472 | A4 Scientific | 9 | E00Z1 | 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: Eva M. Dixon, Sr. Data Specialist
ESAT

RECEIVED
JUL 2 7
IEPA-BCL-FSRS

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**REGION V**

DATE: _____

SUBJECT: Review of Data
Received for Review on June 5, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

Ve have reviewed the data for the following case:

ITE NAME: Ellsworth Industrial Park (IL)

ASE NUMBER: 30472 SDG NUMBER: E00Z1

umber and Type of Samples: 9 Water

ample Numbers: E0100, E0104 - E0107, E00Z1, E00Z2, E00Z7, E00Z8

aboratory: A4 Scientific Hrs. for Review: _____

ollowing are our findings:

C: Cecilia Moore
Region 5 TPO
I Code: SM-5J

Case Number : 30472 SDG Number: E00Z1
S: Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: A4 SCIENTIFIC

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

*Nine (9) water* samples, numbered *E0100, E0104* through *E0107, E00Z1, E00Z2, E00Z7* and *E00Z8*, were collected *May 13 - 17, 2002*. The lab received the samples *May 15 - 17, 2002* in good condition. Five (5) samples; E0100 and E0104 through E0107 were preserved with HCL and the remaining four samples were unpreserved. All samples were analyzed for only the volatile list of organic analytes. All were analyzed according to CLP SOW *OLC03.2* 12/00.

Reviewed By: Allison Harvey/IITRI-ESAT
Date: June 24, 2002

Case Number : 30472 SDG Number: E00Z1
S Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: A4 SCIENTIFIC

## 1. HOLDING TIME

No defects found.

## 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found.

## 3. CALIBRATION

The following volatile 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 "R".

**Methyl Acetate**
E00Z1, E00Z2, E00Z2MS, E00Z2MSD, E00Z7, E00Z8, E0100, E0104, E0104DL, E0105, E0105DL, E0106, E0107, VBLK03, VBLK04, VBLK05, VBLK08, VBLK10, VBLK13, VHBLK01

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" unless otherwise qualified in a following section.

**Styrene, Isopropylbenzene, 1,2,3-Trichlorobenzene**
E00Z1, E00Z2, E00Z2MS, E00Z2MSD, E00Z7, E00Z8, E0100, E0104, E0104DL, E0105, E0105DL, E0106, E0107, VBLK03, VBLK04, VBLK05, VBLK08, VBLK10, VBLK13, VHBLK01

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

**Trichlorofluoromethane, Carbon Tetrachloride**
E00Z1, E00Z2, E00Z7, E00Z8, VBLK03, VBLK05

**Methyl tert-Butyl Ether, cis-1,3-Dichloropropene**
E00Z2, E00Z2MS, E00Z2MSD, E00Z7, E00Z8, VBLK03, VBLK04

**Cyclohexane, Methylcyclohexane, Isopropylbenzene**
E00Z2MS, E00Z2MSD, VBLK04

**Benzene**
E0100, VBLK08, VBLK13, VHBLK01

Reviewed By: Allison Harvey/IITRI-ESAT
Date: June 24, 2002

Case Number : 30472 SDG Number: E00Z1
S : Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: A4 SCIENTIFIC

**2-Hexanone**
E0104, E0104DL, E0105, E0105DL, E0106, E0107, VBLK10

**1,2,3-Trichlorobenzene**
VBLK13, VHBLK01

The following volatile samples are associated with an initial calibration in which a SMC/DMC exceeded percent relative standard deviation (%RSD) criteria. Hits and non-detects are not flagged.

Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene
**E00Z1, E00Z2, E00Z2MS, E00Z2MSD, E00Z7, E00Z8, E0100, E0104, E0104DL, E0105, E0105DL, E0106, E0107, VBLK03, VBLK04, VBLK05, VBLK08, VBLK10, VBLK13, VHBLK01**

The following volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. Hits and non-detects are not flagged.

1,1-Dichloroethane, Bromochloromethane, Chloroform, 4-Methyl-2-pentanone, 2-Hexanone
**E00Z2, E00Z7, E00Z8, VBLK03**

Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl Acetate, Methylene Chloride, Methyl-tert-Butyl Ether, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dichloroethane, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane
**E0100, VBLK08**

Vinyl Chloride
**E0100, E0104, E0104DL, E0105, E0105DL, E0106, E0107, VBLK08, VBLK10, VBLK13, VHBLK01**

Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide, Benzene
**VBLK13, VHBLK01**

## BLANKS

No defects found.

## DEUTERATED MONITORING COMPOUND RECOVERY

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

Reviewed By: Allison Harvey/IITRI-ESAT
Date: June 24, 2002

Case Number : 30472 SDG Number: E00Z1
S: Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: A4 SCIENTIFIC

Dibromochloromethane, 1,2-Dibromoethane, Bromoform
**E0100**

Cyclohexane, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane
**E0104**

Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide, Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2,-Trichloro-1,2,2-trifluoroethane, Methyl Acetate, Methylene Chloride, Methyl tert-Butyl Ether, 1,1,1-Trichloroethane, Cyclohexane, Carbon Tetrachloride, 1,2-Dichloroethane, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane
**E0104DL**

Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2,-Trichloro-1,2,2-trifluoroethane, Methyl Acetate, Methylene Chloride, Methyl tert-Butyl Ether, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dichloroethane
**E0105DL**

The following volatile samples have one or more DMC recovery values below the lower limit of the criteria window. Hits are biased low and qualified "J" and non-detects are qualified "UJ".

Trans-1,2-Dichloroethene, cis-1,2-Dichloroethene
**E0100**

## MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

No defects found.

## FIELD BLANK AND FIELD DUPLICATE

Sample *E0106* is a field blank. Field blank E0106 contained Methylene Chloride at 0.3 µg/L.

Sample *E0105* is a field duplicate of Sample *E0104*. Both samples were re-analyzed at a ten-fold dilution to bring all concentrations within the instrument's calibration range. Results are summarized in the following table:

Reviewed By: Allison Harvey/IITRI-ESAT
Date: June 24, 2002

Case Number : 30472 SDG Number: E00Z1
S: Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: A4 SCIENTIFIC

| Analytes | E0104 | E0104DL | E0105 | E0105DL |
|---|---|---|---|---|
| | µg/L | µg/L | µg/L | µg/L |
| Methylene Chloride | | 3 J | | 3 J |
| 1,1-Dichloroethane | 0.5 | | 0.6 | |
| Chloroform | | | 0.4 J | |
| 1,1,1-Trichloroethane | 9 | 8 J | 10 | 7 J |
| Trichloroethene | 130 | 86 | 140 | 80 |
| No. of TICs | 2 | | 2 | |

Results are not qualified based upon the results of the field blank or field duplicates.

## 9. INTERNAL STANDARDS

No defects found.

## . COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA compounds were properly identified.

## 0. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

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

**E00Z1, E00Z7**
Toluene

**E0100**
Carbon Disulfide

**E0104DL, E0105DL, E0106, E0107, VBLK08**
Methylene Chloride

**E0105**
Chloroform

Reviewed By: Allison Harvey/IITRI-ESAT
Date: June 24, 2002

Case Number : 30472 SDG Number: E00Z1
S : Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: A4 SCIENTIFIC

**VBLK05**
Chloroethane

## 11. SYSTEM PERFORMANCE

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

## 12. ADDITIONAL INFORMATION

The cooler containing samples; E0100, E0104, E0105, E0106 and E0107, reported a temperature of 10 °C upon arrival at the laboratory.

The following samples were analyzed within the technical holding time of 14 days from sample collection but were not preserved (according to the Chain-of-Custody and sample tags); therefore all positive results for non-halogenated compounds (including ketones and aromatics) are qualified "J" and non-detects are qualified "R".

E00Z1, E00Z2, E00Z7, E00Z8
Acetone, Carbon Disulfide, Methyl Acetate, tert-Butyl Methyl Ether, 2-Butanone, Cyclohexane, Benzene, Methylcyclohexane, 4-Methyl-2-pentanone, Toluene, 2-Hexanone, Ethylbenzene, Ethylbenzene, Xylenes (total), Styrene, Isopropylbenzene

The following samples were analyzed within the technical holding time of 14 days from sample collection but were not preserved (according to the Chain-of-Custody and sample tags); therefore all positive results for halogenated compounds are qualified "J" and non-detects are flagged "UJ".

E00Z1, E00Z2, E00Z7, E00Z8
All analytes not listed above.

At the laboratory all samples, except sample E0100, reported pH values < 2. Sample E0100 reported a pH value of 7.

Reviewed By: Allison Harvey/IITRI-ESAT
Date: June 24, 2002

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 anlayte 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) |

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| | | Sample No.: | E00Z1 |
| Sample Type: | Routine Sample | | |
| Lab ID: | A4 | Location: | G15 |
| Case No.: | 30472 | Matrix/Level: | Water/ |
| SDG No.: | E00Z1 | File Name: | E00Z1 |

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| | UNKNOWN | 2.73 | 4.1 | J |
| 000078784 | BUTANE, 2-METHYL- | 3.12 | 2.9 | JN |
| 000109671 | 1-PENTENE | 3.36 | 1.8 | JN |
| | UNKNOWN | 3.43 | 2.4 | J |
| | UNKNOWN | 3.71 | 0.60 | J |
| | UNKNOWN | 4.77 | 0.62 | J |

*Q: Laboratory Qualifier

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| | | Sample No.: | E00Z2 |
| Sample Type: | Spike Original | | |
| Lab ID: | A4 | Location: | G36 |
| Case No.: | 30472 | Matrix/Level: | Water/ |
| SDG No.: | E00Z1 | File Name: | E00Z1 |

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| 000109660 | PENTANE | 3.45 | 1.2 | JN |
| | UNKNOWN | 4.49 | 0.55 | J |

*Q: Laboratory Qualifier

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| | | Sample No.: | E00Z7 |
| Sample Type: | Routine Sample | | |
| Lab ID: | A4 | Location: | G16 |
| Case No.: | 30472 | Matrix/Level: | Water/ |
| SDG No.: | E00Z1 | File Name: | E00Z1 |

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| | UNKNOWN | 3.15 | 2.2 | J |
| 00109660 | PENTANE | 3.45 | 1.6 | JN |
| | UNKNOWN | 4.51 | 0.84 | J |
| 00110543 | HEXANE | 5.09 | 0.93 | JN |
| 00108872 | CYCLOHEXANE, METHYL- | 8.08 | 0.61 | JN |
| | UNKNOWN | 9.74 | 0.59 | J |
| | UNKNOWN | 10.16 | 0.51 | J |
| | UNKNOWN | 14.06 | 0.99 | J |

Q: Laboratory Qualifier

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| | | Sample No.: | E00Z8 |
| Sample Type: | Routine Sample | | |
| Lab ID: | A4 | Location: | G205 |
| Case No.: | 30472 | Matrix/Level: | Water/ |
| SDG No.: | E00Z1 | File Name: | E00Z1 |

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| | UNKNOWN | 3.66 | 1.1 | J |
| | UNKNOWN | 4.48 | 0.63 | J |
| | UNKNOWN | 14.07 | 0.56 | J |

*Q: Laboratory Qualifier

Low Concentration Volatile Sample Analysis
Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| | | Sample No.: | E0100 |
| Sample Type: | Routine Sample | | |
| Lab ID: | A4 | Location: | G18 |
| Case No.: | 30472 | Matrix/Level: | Water/ |
| SDG No.: | E00Z1 | File Name: | E00Z1 |

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| | UNKNOWN | 2.72 | 5.8 | J |
| 000078784 | BUTANE, 2-METHYL- | 3.11 | 2.3 | JN |

*Q: Laboratory Qualifier

**Analytical Results (Qualified Data)**

Case #: 30472 SDG : E00Z1

Site : ELLSWORTH INDUSTRIAL PARK

Lab. : A4

Reviewer :

Date :

Number of Soil Samples : 0

Number of Water Samples : 9

| Sample Number : | E00Z1 | | E00Z2 | | E00Z2MS | | E00Z2MSD | | E00Z7 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G15 | | G36 | | G36 | | G36 | | G16 | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/13/2002 | | 05/14/2002 | | 05/14/2002 | | 05/14/2002 | | 05/15/2002 | |
| Time Sampled : | 19:15 | | 15:00 | | 15:00 | | 15:00 | | 13:00 | |
| %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 | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Chloromethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Vinyl Chloride | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Bromomethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Chloroethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Trichlorofluoromethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,1-Dichloroethene | 0.5 | UJ | 0.5 | UJ | 5 | J | 5 | J | 0.5 | UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Acetone | 15 | J | 5 | R | 5 | R | 5 | R | 5 | R |
| Carbon Disulfide | 2 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Methyl Acetate | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Methylene Chloride | 0.5 | UJ | 0.5 | UJ | 2 | J | 2 | J | 0.5 | UJ |
| trans-1,2-Dichloroethene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| tert-Butyl Methyl Ether | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| 1-Dichloroethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| cis-1,2-Dichloroethene | 1 | J | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 2-Butanone | 5 | R | 5 | R | 5 | R | 5 | R | 5 | R |
| Bromochloromethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Chloroform | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,1,1-Trichloroethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Cyclohexane | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Carbon Tetrachloride | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Benzene | 0.5 | R | 0.5 | R | 5 | J | 5 | J | 0.5 | R |
| 1,2-Dichloroethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Trichloroethene | 0.5 | UJ | 0.5 | UJ | 5 | J | 5 | J | 0.5 | UJ |
| Methylcyclohexane | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| 1,2-Dichloropropane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Bromodichloromethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| cis-1,3-Dichloropropene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 4-Methyl-2-pentanone | 5 | R | 5 | R | 5 | R | 5 | R | 5 | R |
| Toluene | 0.4 | J | 0.5 | R | 5 | J | 5 | J | 0.2 | J |
| trans-1,3-Dichloropropene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,1,2-Trichloroethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |

**Analytical Results (Qualified Data)**

Case #: 30472 SDG : E00Z1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

| Sample Number : | E00Z1 | | E00Z2 | | E00Z2MS | | E00Z2MSD | | E00Z7 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G15 | | G36 | | G36 | | G36 | | G16 | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/13/2002 | | 05/14/2002 | | 05/14/2002 | | 05/14/2002 | | 05/15/2002 | |
| Time Sampled : | 19:15 | | 15:00 | | 15:00 | | 15:00 | | 13:00 | |
| %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 |
| Tetrachloroethene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 2-Hexanone | 5 | R | 5 | R | 5 | R | 5 | R | 5 | R |
| Dibromochloromethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,2-Dibromoethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Chlorobenzene | 0.5 | UJ | 0.5 | UJ | 5 | J | 5 | J | 0.5 | UJ |
| Ethylbenzene | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Xylenes (total) | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Styrene | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Bromoform | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Isopropylbenzene | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| 1,1,2,2-Tetrachloroethane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,3-Dichlorobenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,4-Dichlorobenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,2-Dichlorobenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,2-Dibromo-3-chloropropane | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,2,4-Trichlorobenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,2,3-Trichlorobenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |

**Analytical Results (Qualified Data)**

Case #: 30472 SDG : E00Z1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

| Sample Number : | E00Z8 | | E0100 | | E0104 | | E0104DL | | E0105 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G205 | | G18 | | G24 | | G24 | | G24D | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/15/2002 | | 05/16/2002 | | 05/17/2002 | | 05/17/2002 | | 05/17/2002 | |
| Time Sampled : | 17:30 | | 13:30 | | 10:30 | | 10:30 | | 10:30 | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 10.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Chloromethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Vinyl Chloride | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Bromomethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Chloroethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Trichlorofluoromethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,1-Dichloroethene | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Acetone | 5 | R | 12 | | 5 | U | 50 | U | 5 | U |
| Carbon Disulfide | 0.5 | R | 0.3 | J | 0.5 | U | 5 | U | 0.5 | U |
| Methyl Acetate | 0.5 | R | 0.5 | R | 0.5 | R | 5 | R | 0.5 | R |
| Methylene Chloride | 0.5 | UJ | 0.5 | U | 0.5 | U | 3 | J | 0.5 | U |
| trans-1,2-Dichloroethene | 0.5 | UJ | 0.5 | UJ | 0.5 | U | 5 | U | 0.5 | U |
| tert-Butyl Methyl Ether | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1-Dichloroethane | 0.5 | UJ | 0.5 | U | 0.5 | | 5 | U | 0.6 | |
| -1,2-Dichloroethene | 0.5 | UJ | 0.5 | UJ | 0.5 | U | 5 | U | 0.5 | U |
| 2-Butanone | 5 | R | 5 | U | 5 | U | 50 | U | 5 | U |
| Bromochloromethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Chloroform | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.4 | J |
| 1,1,1-Trichloroethane | 0.5 | UJ | 0.5 | U | 9 | | 8 | J | 10 | |
| Cyclohexane | 0.5 | R | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Carbon Tetrachloride | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Benzene | 0.5 | R | 0.5 | UJ | 0.5 | U | 5 | U | 0.5 | U |
| 1,2-Dichloroethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Trichloroethene | 0.5 | UJ | 0.5 | U | 130 | | 86 | | 140 | |
| Methylcyclohexane | 0.5 | R | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,2-Dichloropropane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Bromodichloromethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| cis-1,3-Dichloropropene | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 4-Methyl-2-pentanone | 5 | R | 5 | U | 5 | U | 50 | U | 5 | U |
| Toluene | 0.5 | R | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| trans-1,3-Dichloropropene | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,1,2-Trichloroethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30472 SDG : E00Z1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

| Sample Number : | E00Z8 | | E0100 | | E0104 | | E0104DL | | E0105 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G205 | | G18 | | G24 | | G24 | | G24D | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/15/2002 | | 05/16/2002 | | 05/17/2002 | | 05/17/2002 | | 05/17/2002 | |
| Time Sampled : | 17:30 | | 13:30 | | 10:30 | | 10:30 | | 10:30 | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 10.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Tetrachloroethene | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 2-Hexanone | 5 | R | 5 | U | 5 | UJ | 50 | UJ | 5 | UJ |
| Dibromochloromethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,2-Dibromoethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Chlorobenzene | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Ethylbenzene | 0.5 | R | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Xylenes (total) | 0.5 | R | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Styrene | 0.5 | R | 0.5 | UJ | 0.5 | UJ | 5 | UJ | 0.5 | UJ |
| Bromoform | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| Isopropylbenzene | 0.5 | R | 0.5 | UJ | 0.5 | UJ | 5 | UJ | 0.5 | UJ |
| 1,1,2,2-Tetrachloroethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,3-Dichlorobenzene | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,2-Dibromo-3-chloropropane | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,2,4-Trichlorobenzene | 0.5 | UJ | 0.5 | U | 0.5 | U | 5 | U | 0.5 | U |
| 1,2,3-Trichlorobenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 5 | UJ | 0.5 | UJ |

**Analytical Results (Qualified Data)**

Case #: 30472 SDG : E00Z1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

| Sample Number : | E0105DL | | E0106 | | E0107 | | VBLK03 | | VBLK04 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G24D | | G206 | | G207 | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/17/2002 | | 05/17/2002 | | 05/17/2002 | | | | | |
| Time Sampled : | 10:30 | | 10:45 | | 10:50 | | | | | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 10.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloromethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Vinyl Chloride | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromomethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichlorofluoromethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U |
| 1,1-Dichloroethene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Acetone | 50 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Carbon Disulfide | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl Acetate | 5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Methylene Chloride | 3 | J | 0.3 | J | 0.3 | J | 0.5 | U | 0.5 | U |
| trans-1,2-Dichloroethene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| tert-Butyl Methyl Ether | 5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 1-Dichloroethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| -1,2-Dichloroethene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Butanone | 50 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Bromochloromethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroform | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,1-Trichloroethane | 7 | J | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Cyclohexane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Carbon Tetrachloride | 5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | U |
| Benzene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloroethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichloroethene | 80 | | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methylcyclohexane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 1,2-Dichloropropane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromodichloromethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,3-Dichloropropene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 4-Methyl-2-pentanone | 50 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Toluene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,3-Dichloropropene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloroethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30472 SDG : E00Z1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

| Sample Number : | E0105DL | | E0106 | | E0107 | | VBLK03 | | VBLK04 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G24D | | G206 | | G207 | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/17/2002 | | 05/17/2002 | | 05/17/2002 | | | | | |
| Time Sampled : | 10:30 | | 10:45 | | 10:50 | | | | | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 10.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Tetrachloroethene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Hexanone | 50 | UJ | 5 | UJ | 5 | UJ | 5 | U | 5 | U |
| Dibromochloromethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromoethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chlorobenzene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Ethylbenzene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Xylenes (total) | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Styrene | 5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Bromoform | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Isopropylbenzene | 5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,1,2,2-Tetrachloroethane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,3-Dichlorobenzene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Dibromo-3-chloropropane | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,4-Trichlorobenzene | 5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,3-Trichlorobenzene | 5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |

**Analytical Results (Qualified Data)**

Case #: 30472 SDG : E00Z1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
Date :

| Sample Number : | VBLK05 | | VBLK08 | | VBLK10 | | VBLK13 | | VHBLK01 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %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 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Vinyl Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromomethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroethane | 0.3 | J | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichlorofluoromethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Acetone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Carbon Disulfide | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl Acetate | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Methylene Chloride | 1 | | 0.2 | J | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| tert-Butyl Methyl Ether | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Butanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Bromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,1-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Cyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Carbon Tetrachloride | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Benzene | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | UJ | 0.5 | UJ |
| 1,2-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methylcyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromodichloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 4-Methyl-2-pentanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Toluene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30472 SDG : E00Z1
Site : ELLSWORTH INDUSTRIAL PARK
Lab. : A4
Reviewer :
te :

| Sample Number : | VBLK05 | | VBLK08 | | VBLK10 | | VBLK13 | | VHBLK01 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %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 |
| Tetrachloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Hexanone | 5 | U | 5 | U | 5 | UJ | 5 | U | 5 | U |
| Dibromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromoethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Ethylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Xylenes (total) | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Styrene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Bromoform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Isopropylbenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| 1,1,2,2-Tetrachloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,3-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Dibromo-3-chloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| ,4-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,3-Trichlorobenzene | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 6-5-02

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ELSWORTH INDUSTRIAL PARK (IL)

CASE NUMBER: 32472 SDG NUMBER: E0021

Number and Type of Samples: 9 (WATER)

Sample Numbers: E0100, E0104-7, E0021-2, E0027-8

Laboratory: A4 SCIENTIFIC Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

# Sample Delivery Group (SDG)
# Cover Sheet

SDG Number: **E00Z1**

Laboratory Name: **A4 Scientific, Inc.**

Laboratory Code: **A4**

Contract No.: **68W01038**

Case No.: **30472**

Analysis Price: **$ 390.00**

SDG Turnaround: **21 days**

EPA Sample Numbers in SDG (Listed in Numerical Order)

| | | | |
|---|---|---|---|
| 1) E0100 | 7) E00Z2 | 13) | 19) |
| 2) E0104 | 8) E00Z7 | 14) | 20) |
| 3) E0105 | 9) E00Z8 | 15) | 21) |
| 4) E0106 | 10) | 16) | 22) |
| 5) E0107 | 11) | 17) | 23) |
| 6) E00Z1 | 12) | 18) | 24) |

| | |
|---|---|
| E00Z1 | E0107 |
| First Sample in SDG | Last Sample in SDG |
| 05/16/02 | 05/20/02 |
| First Sample Receipt Date | Last Sample Receipt Date |

***Note:*** *There are a maximum of 20* ***field samples*** *(excluding PE samples) in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).*

Signature Sumitra Sheri Date 05/20/02

# USEPA Contract Laboratory Program
# Organic Traffic Report

**Case No:** 30472
DAS No: 5/17/02
SDG No: ~~E0100~~ E00Z1

L

| | | | |
|---|---|---|---|
| Date Shipped: 5/15/02<br>Carrier Name: UPS<br>Airbill: 1Z6215892210020860<br>Shipped to: A4 Scientific, 1544 Sawdust Rd. Suite 505, The Woodlands TX 77380, (281) 292-5277 | Date Received/Received by: 5 16 02 Carlos Pun<br>Lab Contract No: GEL01038 Unit Price: 390.00<br>Transfer To:<br>Date Received/Received By: 5/17/02<br>Lab Contract No: Price: | Sampler (Signature): James M. Salch<br>Relinquished By: James M. Salch | Date / Time: 5/15/02 18:30 |
| | | Relinquished By: | Date / Time: |
| | | Relinquished By: | Date / Time: |

Received By:
Received By:
Received By:

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E00Z1 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66075 (Ice Only), 5-66076 (Ice Only), 5-66077 (Ice Only), 5-66078 (Ice Only), 5-66079 (Ice Only) (5) | G15 | 5/13/02 19:15 | | |
| E00Z2 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66080 (Ice Only), 5-66081 (Ice Only), 5-66082 (Ice Only), 5-66083 (Ice Only), 5-66084 (Ice Only), 5-66085 (Ice Only), 5-66086 (Ice Only), 5-66087 (Ice Only), 5-66088 (Ice Only), 5-66089 (Ice Only), 5-66090 (Ice Only), 5-66091 (Ice Only), 5-66092 (Ice Only), 5-66093 (Ice Only), 5-66094 (Ice Only) (15) | G36 | 5/14/02 15:00 | | |
| E00Z7 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66103 (Ice Only), 5-66104 (Ice Only), 5-66105 (Ice Only), 5-66106 (Ice Only), 5-66107 (Ice Only) (5) | G16 | 5/15/02 13:00 | | |
| E00Z8 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66108 (Ice Only), 5-66109 (Ice Only) (2) | G205 | 5/15/02 17:30 | | |

0003

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: E00Z2 | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 3C | Chain of Custody Seal Number: 97301 |
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? Y / Shipment Iced? Y |

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

**TR Number: 5-055166947-051502-0001**

# U.S.EPA Contract Laboratory Program
# Organic Traffic Report

Case No: 30472
DAS No:
SDG No: E0071

L

| | | | |
|---|---|---|---|
| Date Shipped: 5/17/02<br>Carrier Name: UPS<br>Airbill: 1Z6215892210020897<br>Shipped to: A4 Scientific<br>1544 Sawdust Rd. Suite 505<br>The Woodlands TX 77380<br>(281) 292-5277 | Date Received/Received by: 5-20-02 Carlos Ruiz<br>Lab Contract No: 68WD1038 Unit Price: 390.00<br>Transfer To:<br>Date Received/Received By:<br>Lab Contract No: Price: | Sampler (Signature): James M. Salch<br>Relinquished By: James M. Salch Date / Time: 5/17/02 16:00 Received By:<br>Relinquished By: Date / Time: Received By:<br>Relinquished By: Date / Time: Received By: | |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E0100 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66112 (HCL), 5-66113 (HCL), 5-66114 (HCL), 5-66115 (HCL), 5-66116 (HCL) (5) | G18 | 5/16/02 13:30 | | |
| E0104 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66123 (HCL), 5-66124 (HCL), 5-66125 (HCL), 5-66126 (HCL), 5-66127 (HCL) (5) | G24 | 5/17/02 10:30 | | |
| E0105 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66128 (HCL), 5-66129 (HCL), 5-66130 (HCL), 5-66131 (HCL), 5-66132 (HCL) (5) | G24D | 5/17/02 10:30 | | |
| E0106 | Field QC/ Jim Salch | L/G | VOA (21) | 5-66133 (HCL), 5-66134 (HCL), 5-66135 (HCL), 5-66136 (HCL), 5-66137 (HCL) (5) | G206 | 5/17/02 10:45 | | |
| E0107 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-66138 (HCL), 5-66139 (HCL) (2) | G207 | 5/17/02 10:50 | | |

0004

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? Y | Sample(s) to be used for laboratory QC: E0022 | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 10°C | Chain of Custody Seal Number: 81440 |
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? Y | Shipment Iced? N |

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

**TR Number: 5-055166947-051702-0001**

A4 SCIENTIFIC, INC.
1544 Sawdust Road, Suite 505 • The Woodlands, TX 77380 • Phone (281) 292-5277 JUN 05 2002

| Contract #: 68W01038 | Case #: 30472 | SDG #: E00Z1 |
|---|---|---|

# SDG NARRATIVE

## SAMPLE RECEIPT & LOGIN:

The following samples were received on the dates listed against them.

| EPA SAMPLE # | LAB SAMPLE # | DATE /TIME RECEIVED | AIRBILL NO. | VOA | BNA | PEST | REMARKS |
|---|---|---|---|---|---|---|---|
| E00Z1 | 1606.001 | 05/16/02 10:22 | 1Z6215892210020860 | x | | | |
| E00Z2 | 1606.002 | 05/16/02 10:22 | 1Z6215892210020860 | x | | | MS/MSD |
| E00Z7 | 1606.003 | 05/16/02 10:22 | 1Z6215892210020860 | x | | | |
| E00Z8 | 1606.004 | 05/16/02 10:22 | 1Z6215892210020860 | x | | | |
| E0100 | 1621.001 | 05/20/02 09:30 | 1Z6215892210020897 | x | | | |
| E0104 | 1621.002 | 05/20/02 09:30 | 1Z6215892210020897 | x | | | |
| E0105 | 1621.003 | 05/20/02 09:30 | 1Z6215892210020897 | x | | | |
| E0106 | 1621.004 | 05/20/02 09:30 | 1Z6215892210020897 | x | | | |
| E0107 | 1621.005 | 05/20/02 09:30 | 1Z6215892210020897 | x | | | |

The cooler temperatures were 3°C and 10°C. The cooler temperature for the samples received under the airbill number 1Z6215892210020897 was 10 degrees C. The lab contacted SMO, per SMO the lab proceeded with the analysis of the samples. As per scheduling notification form NO MS/MSD required for this Case, while the COC/TR marked the sample E00Z2 for lab QC. Lab contacted SMO and resolved that the lab should proceed with MS/MSD as directed on the TR/COC. Other discrepancies or issues were noted during sample receipt and login.

## VOLATILES:

All samples were analyzed on a HP5973 GC-MS using a 60-meter RTX-624 column having a 0.32mm ID and 1.8µm film thickness. A Tekmar Purge and Trap with an Archon autosampler was used. The trap used was an OV-1/Tenax/Silica Gel/Charcoal. A 25mL purge volume was used for all samples, blanks, and standards.

The pH of all samples was < 2 standard units for all the samples except for the sample E0100 pH was 7 standard units.

MS/MSD was performed for the sample E00Z2.

The samples E0104 and E0105 were analyzed at a dilution.

*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/her designee, as verified by the following signature:*

Sunita Lucie / GC coordinator
Signature and Title

6/4/02
Date of Signature

## Sumitra

**From:** "Brown, Jessica" <Jessica.Brown@dyncorp.com>
**To:** "'Sumitra'" <sumitra@a4scientific.com>
**Sent:** Friday, May 17, 2002 4:20 PM
**Subject:** RE: Region 05 | Case 30472 | Lab A4 | Issue TR/COC discrepancy - laboratory QC | FINAL

This is Heather Bauer. Holly and Jessica are out office the office this afternoon.

The lab should proceed with MS/MSD as directed on the TR/COC.

-----Original Message-----
**From:** Sumitra [mailto:sumitra@a4scientific.com]
**Sent:** Friday, May 17, 2002 5:22 PM
**To:** Brown, Jessica
**Subject:** Re: Region 05 | Case 30472 | Lab A4 | Issue TR/COC discrepancy - laboratory QC | FINAL

Heather,

Per my understanding from the e-mail below, the lab should perform MS/MSD on the samples designated. Please confirm.

Thanks,
Sumitra.

----- Original Message -----
**From:** Brown, Jessica
**To:** Sumitra Sheeri (E-mail)
**Cc:** Howard Pham (E-mail) ; Bob Casper (E-mail) ; Mark Wagner (E-mail 2)
**Sent:** Friday, May 17, 2002 4:02 PM
**Subject:** Region 05 | Case 30472 | Lab A4 | Issue TR/COC discrepancy - laboratory QC | FINAL

Sumitra,
This is Heather Bauer. Both Holly and Jessica are out of the office this afternoon.

Following is the resolution from Region 5. Per the Region, the lab should analyze the samples designated for laboratory QC. Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

-----Original Message-----
**From:** HOWARD PHAM [mailto:H161259@msn.com]
**Sent:** Friday, May 17, 2002 4:57 PM
**To:** Brown, Jessica
**Subject:** Re: Region 05 | Case 30472 | Lab A4 | Issue TR/COC discrepancy - laboratory QC

Hi Jessica,

Please ask the lab analyses the samples designated as lab QC.

Thanks,

Howard Pham

----- Original Message -----
**From:** Brown, Jessica
**Sent:** Friday, May 17, 2002 2:14 PM
**To:** Bob Casper (E-mail); Mark Wagner (E-mail 2)
**Cc:** Howard Pham (E-mail); Howard Pham (Home) (E-mail); Steve Peterson (E-mail)
**Subject:** Region 05 | Case 30472 | Lab A4 | Issue TR/COC discrepancy - laboratory QC

This is Holly Rogers. Jessica is out for the day.

Following is an email from A4 regarding lab QC issues for Case 30472. Please see below and advise the lab how to proceed.

Thanks,
Holly

-----Original Message-----
**From:** Sumitra [mailto:sumitra@a4scientific.com]
**Sent:** Friday, May 17, 2002 3:02 PM
**To:** Brown, Jessica
**Cc:** Rogers, Holly
**Subject:** TR/COC Discrepancy for Case 30472.

Hi Holly/Jessica,

The lab received 5 VOA sample on 0513/02. The TR/COC marked the sample E00Z4 for lab QC.
As per Scheduling Notification Form, NO MS/MSD required for this Case.

Also the lab received 4 VOA sample on 0516/02. The TR/COC marked the sample E00Z2 for lab QC.
As per Scheduling Notification Form, NO MS/MSD required for this Case.

Please advise.

Thanks,
Sumitra

## Sumitra

**From:** "Brown, Jessica" <Jessica.Brown@dyncorp.com>
**To:** "Sumitra Sheeri (E-mail)" <sumitra@a4scientific.com>
**Cc:** "Howard Pham (E-mail)" <pham.howard@epa.gov>; "Cecilia More (E-mail)" <moore.cecilia@epa.gov>; "Bob Casper (E-mail)" <epa4407@epa.state.il.us>
**Sent:** Tuesday, May 21, 2002 12:00 PM
**Subject:** Region 05 | Case 30472 | Lab A4 | Issue Preservative | FINAL

Hi Sumitra,

Per Region 5, please proceed with the analysis of the samples received at 10 degrees C on 5/20/02 under Case 30472 and note the temperature issue in the SDG Narrative.

Thank you,
Jessica

12:41PM 5/21/02
Jessica Brown, SMO, received a call from Howard Pham, USEPA Region 5 RSCC, concerning Case 30472. The lab may proceed with the analysis of the samples received under Case 30472.

11:48AM 5/21/02
Jessica Brown, SMO, left a voice-mail message for Cecilia Moore, USEPA Region 5 alternate RSCC, concerning Case 30472.

-----Original Message-----
**From:** Brown, Jessica
**Sent:** Tuesday, May 21, 2002 9:59 AM
**To:** Cecilia More (E-mail)
**Subject:** Region 05 | Case 30472 | Lab A4 | Issue Preservative
**Importance:** High

Good Morning Cecilia,

A4 is still waiting for a resolution to the cooler temperature issue below. Please advise on how the lab should proceed as quickly as possible.

Thank you.

Jessica

-----Original Message-----
**From:** Brown, Jessica
**Sent:** Monday, May 20, 2002 3:09 PM
**To:** Cecilia More (E-mail)
**Subject:** Region 05 | Case 30472 | Lab A4 | Issue Preservative

Hi Cecilia,

The following is the resolution from Tony Wasilewski, IL-EPA, for the issue concerning cooler temperature under Case 30472.

Please advise.

Thanks,
Jessica

2:14PM 5/20/02
Jessica Brown, SMO, spoke with Tony Wasilewski, IL-EPA, concerning Case 30472. The lab may proceed with analyzing the samples that were received at 10 degrees C.

-----Original Message-----
**From:** Brown, Jessica
**Sent:** Monday, May 20, 2002 11:43 AM
**To:** Mark Wagner (E-mail 2); Bob Casper (E-mail)
**Subject:** Region 05 | Case 30472 | Lab A4 | Issue Preservative

The following is an e-mail from A4 concerning Case 30472. Please advise on how the lab should proceed as soon as possible.

Thanks,
Jessica

-----Original Message-----
**From:** Sumitra [mailto:sumitra@a4scientific.com]
**Sent:** Monday, May 20, 2002 11:17 AM
**To:** Brown, Jessica
**Subject:** Cooler Temperature for Case 30472.

Hi Jessica,

The lab received 5 VOA samples for Case 30472 today (05/20/02), the cooler temperature is 10 degrees C, and the custody seals are intact.
Please advise.

Please

2LCA

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

| | EPA SAMPLE NO. | VDMC1 (VCL) # | VDMC2 (CLA) # | VDMC3 (DCE) # | VDMC4 (BUT) # | VDMC5 (CLF) # | VDMC6 (DCA) # | VDMC7 (BEN) # |
|---|---|---|---|---|---|---|---|---|
| 01 | VBLK03 | 94 | 92 | 72 | 120 | 92 | 92 | 96 |
| 02 | E00Z2 | 94 | 94 | 70 | 106 | 100 | 96 | 102 |
| 03 | E00Z7 | 92 | 94 | 70 | 114 | 100 | 98 | 104 |
| 04 | E00Z8 | 94 | 94 | 70 | 128 | 100 | 98 | 102 |
| 05 | VBLK04 | 92 | 96 | 68 | 128 | 96 | 98 | 94 |
| 06 | E00Z2MS | 84 | 94 | 92 | 160 | 94 | 98 | 94 |
| 07 | E00Z2MSD | 84 | 92 | 92 | 160 | 98 | 96 | 96 |
| 08 | VBLK05 | 106 | 108 | 78 | 100 | 112 | 104 | 96 |
| 09 | E00Z1 | 92 | 100 | 72 | 102 | 106 | 100 | 92 |
| 10 | VBLK08 | 104 | 112 | 72 | 114 | 114 | 116 | 86 |
| 11 | E0100 | 82 | 98 | 62 * | 118 | 108 | 112 | 94 |
| 12 | VBLK10 | 112 | 118 | 84 | 112 | 112 | 114 | 92 |
| 13 | E0104 | 112 | 118 | 82 | 116 | 110 | 124 | 106 |
| 14 | VIBLK08 | 120 | 124 | 84 | 128 | 114 | 116 | 94 |
| 15 | E0104DL | 120 | *128 D | 88 | 122 | 120 | *132 D | 102 |
| 16 | E0106 | 120 | 126 | 86 | 122 | 118 | 120 | 94 |
| 17 | E0105 | 112 | 116 | 80 | 120 | 112 | 126 | 102 |
| 18 | VIBLK09 | 120 | 122 | 82 | 106 | 112 | 118 | 92 |
| 19 | E0105DL | 112 | 118 | 80 | 116 | 110 | *130 D | 88 |
| 20 | E0107 | 118 | 118 | 82 | 106 | 112 | 110 | 88 |
| 21 | VBLK13 | 112 | 112 | 86 | 122 | 112 | 114 | 94 |
| 22 | VHBLK01 | 108 | 108 | 80 | 118 | 116 | 118 | 92 |
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| | | | QC LIMITS |
|---|---|---|---|
| VDMC1 | (VCL) | = Vinyl Chloride-d3 | (49-138) |
| VDMC2 | (CLA) | = Chloroethane-d5 | (60-126) |
| VDMC3 | (DCE) | = 1,1-Dichloroethene-d2 | (65-130) |
| VDMC4 | (BUT) | = 2-Butanone-d5 | (42-171) |
| VDMC5 | (CLF) | = Chloroform-d | (80-123) |
| VDMC6 | (DCA) | = 1,2-Dichloroethane-d4 | (78-129) |
| VDMC7 | (BNE) | = Benzene-d6 | (78-121) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCB

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

| | EPA SAMPLE NO. | VDMC8 (DPA) # | VDMC9 (TOL) # | VDMC10 (TDP) # | VDMC11 (HEX) # | VDMC12 (BRF) # | VDMC13 (TCA) # | VDMC14 (DCZ) # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|
| 01 | VBLK03 | 94 | 96 | 94 | 86 | 90 | 94 | 94 | 0 |
| 02 | E00Z2 | 98 | 96 | 88 | 72 | 84 | 102 | 106 | 0 |
| 03 | E00Z7 | 102 | 102 | 92 | 72 | 80 | 106 | 106 | 0 |
| 04 | E00Z8 | 102 | 96 | 86 | 88 | 88 | 102 | 102 | 0 |
| 05 | VBLK04 | 92 | 92 | 86 | 110 | 92 | 96 | 98 | 0 |
| 06 | E00Z2MS | 94 | 92 | 94 | 140 | 86 | 108 | 94 | 0 |
| 07 | E00Z2MSD | 94 | 94 | 98 | 130 | 86 | 106 | 100 | 0 |
| 08 | VBLK05 | 102 | 84 | 88 | 52 | 116 | 102 | 100 | 0 |
| 09 | E00Z1 | 98 | 80 | 88 | 68 | 112 | 100 | 96 | 0 |
| 10 | VBLK08 | 100 | 84 | 96 | 80 | 132 | 100 | 108 | 0 |
| 11 | E0100 | 110 | 92 | 106 | 88 | 154 * | 114 | 118 | 2 |
| 12 | VBLK10 | 106 | 92 | 104 | 72 | 122 | 96 | 124 | 0 |
| 13 | E0104 | 126 * | 104 | 106 | 78 | 116 | 102 | 124 | 1 |
| 14 | VIBLK08 | 106 | 92 | 100 | 74 | 120 | 98 | 122 | 0 |
| 15 | E0104DL | ~~*~~124 D | 102 | 112 | 100 | 122 | 108 | 130 | ~~3~~ 0 |
| 16 | E0106 | 112 | 94 | 104 | 94 | 120 | 100 | 122 | 0 |
| 17 | E0105 | 122 | 98 | 106 | 104 | 118 | 106 | 124 | 0 |
| 18 | VIBLK09 | 108 | 88 | 96 | 78 | 110 | 98 | 116 | 0 |
| 19 | E0105DL | 110 | 86 | 92 | 96 | 110 | 98 | 110 | ~~1~~ 0 |
| 20 | E0107 | 102 | 82 | 94 | 74 | 112 | 96 | 108 | 0 |
| 21 | VBLK13 | 106 | 90 | 98 | 88 | 102 | 106 | 120 | 0 |
| 22 | VHBLK01 | 106 | 92 | 100 | 96 | 104 | 104 | 116 | 0 |
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6-18-02

| | | | QC LIMITS |
|---|---|---|---|
| VDMC8 | (DPA) | = 1,2-Dichloropropane-d6 | (84-123) |
| VDMC9 | (TOL) | = Toluene-d8 | (77-120) |
| VDMC10 | (TDP) | = trans-1,3-Dichloropropene-d4 | (80-128) |
| VDMC11 | (HEX) | = 2-Hexanone-d5 | (37-169) |
| VDMC12 | (BRF) | = Bromoform-d | (76-135) |
| VDMC13 | (TCA) | = 1,1,2,2-Tetrachloroethane-d2 | (75-131) |
| VDMC14 | (DCZ) | = 1,2-Dichlorobenzene-d4 | (50-150) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

3LCA
LOW CONCENTRATION WATER VOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Marix Spike - EPA Sample No.: E00Z2

| COMPOUND | SPIKE ADDED (UG/L) | SAMPLE CONCENTRATION (UG/L) | MS CONCENTRATION (UG/L) | MS % REC # | QC LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 0 | 4.9 | 98 | 61-145 |
| Benzene | 5.0 | 0 | 4.7 | 94 | 76-127 |
| Trichloroethene | 5.0 | 0 | 4.9 | 98 | 71-120 |
| Toluene | 5.0 | 0 | 4.7 | 94 | 76-125 |
| Chlorobenzene | 5.0 | 0 | 4.8 | 96 | 75-130 |

| COMPOUND | SPIKE ADDED (UG/L) | MSD CONCENTRATION (UG/L) | MSD % REC # | RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 4.8 | 96 | 2 | 14 | 61-145 |
| Benzene | 5.0 | 4.9 | 98 | 4 | 11 | 76-127 |
| Trichloroethene | 5.0 | 5.0 | 100 | 2 | 14 | 71-120 |
| Toluene | 5.0 | 4.8 | 96 | 2 | 13 | 76-125 |
| Chlorobenzene | 5.0 | 4.8 | 96 | 0 | 13 | 75-130 |

# Column to be used to flag recovery and RPD Values with an asterisk

* Values outside of QC limits.

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

COMMENTS: _____

_____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK03

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK03 Date Analyzed: 05/23/2002

Lab File ID: C5443 Time Analyzed: 1747

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E00Z2 | 1606.002 | C5456 | 0052 |
| 02 | E00Z7 | 1606.003 | C5457 | 0125 |
| 03 | E00Z8 | 1606.004 | C5458 | 0157 |
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COMMENTS _____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK04

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK04 Date Analyzed: 05/24/2002

Lab File ID: C5465 Time Analyzed: 1031

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E00Z2MS | 1606.002MS | C5469 | 1242 |
| 02 | E00Z2MSD | 1606.002MSD | C5470 | 1315 |
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COMMENTS _____



FORM IV LCV

OLC03.2

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK05

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: VBLK05 Date Analyzed: 05/26/2002

Lab File ID: C5484 Time Analyzed: 1710

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E00Z1 | 1606.001 | C5485 | 1803 |
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COMMENTS _____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK08

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK08 Date Analyzed: 05/28/2002

Lab File ID: C5522 Time Analyzed: 1114

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E0100 | 1621.001 | C5533 | 1901 |
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COMMENTS _____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK10

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK10 Date Analyzed: 05/30/2002

Lab File ID: C5563 Time Analyzed: 1047

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E0104 | 1621.002 | C5564 | 1120 |
| 02 | VIBLK08 | VIBLK08 | C5566 | 1225 |
| 03 | E0104DL | 1621.002DL | C5567 | 1258 |
| 04 | E0106 | 1621.004 | C5568 | 1330 |
| 05 | E0105 | 1621.003 | C5569 | 1403 |
| 06 | VIBLK09 | VIBLK09 | C5570 | 1436 |
| 07 | E0105DL | 1621.003DL | C5576 | 1753 |
| 08 | E0107 | 1621.005 | C5581 | 2036 |
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COMMENTS _____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK13

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK13 Date Analyzed: 06/03/2002

Lab File ID: C5633 Time Analyzed: 1053

Instrument ID: C-5973

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | VHBLK01 | 1606.005 | C5638 | 1442 |
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COMMENTS _____

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E0100

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.001 Date Received: 05/20/2002

Lab File ID: C5533 Date Analyzed: 05/28/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 12 | |
| 75-15-0 | Carbon Disulfide | 0.31 | J |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0100

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.001 Date Received: 05/20/2002

Lab File ID: C5533 Date Analyzed: 05/28/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0100

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.001 Date Received: 05/20/2002

Lab File ID: C5533 Date Analyzed: 05/28/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 5

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | UNKNOWN | 2.72 | 5.8 | J |
| 02 | 000078-78-4 | Butane, 2-methyl- | 3.11 | 2.3 | JN |
| 03 | 000109-67-1 | 1-Pentene | 3.35 | 2.1 | JN |
| 04 | | UNKNOWN | 3.43 | 3.0 | J |
| 05 | | UNKNOWN | 3.70 | 0.87 | J |
| 06 | | | | | |
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1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E0104

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.002 Date Received: 05/20/2002

Lab File ID: C5564 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.51 | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 9.2 | |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0104

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.002 Date Received: 05/20/2002

Lab File ID: C5564 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 130 | E |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0104

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.002 Date Received: 05/20/2002

Lab File ID: C5564 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | UNKNOWN | 3.10 | 0.90 | J |
| 02 | | UNKNOWN | 3.40 | 0.98 | J |
| 03 | | | | | |
| 04 | | | | | |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0104DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.002DL Date Received: 05/20/2002

Lab File ID: C5567 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 10.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U |
| 74-87-3 | Chloromethane | 5.0 | U |
| 75-01-4 | Vinyl Chloride | 5.0 | U |
| 74-83-9 | Bromomethane | 5.0 | U |
| 75-00-3 | Chloroethane | 5.0 | U |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | U |
| 67-64-1 | Acetone | 50 | U |
| 75-15-0 | Carbon Disulfide | 5.0 | U |
| 79-20-9 | Methyl Acetate | 5.0 | U |
| 75-09-2 | Methylene Chloride | 3.4 | JD |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U |
| 78-93-3 | 2-Butanone | 50 | U |
| 74-97-5 | Bromochloromethane | 5.0 | U |
| 67-66-3 | Chloroform | 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 7.9 | D |
| 110-82-7 | Cyclohexane | 5.0 | U |
| 56-23-5 | Carbon Tetrachloride | 5.0 | U |
| 71-43-2 | Benzene | 5.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E0104DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.002DL Date Received: 05/20/2002

Lab File ID: C5567 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 10.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 86 | D |
| 108-87-2 | Methylcyclohexane | 5.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 5.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 50 | U |
| 108-88-3 | Toluene | 5.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 5.0 | U |
| 591-78-6 | 2-Hexanone | 50 | U |
| 124-48-1 | Dibromochloromethane | 5.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 5.0 | U |
| 108-90-7 | Chlorobenzene | 5.0 | U |
| 100-41-4 | Ethylbenzene | 5.0 | U |
| 1330-20-7 | Xylene (total) | 5.0 | U |
| 100-42-5 | Styrene | 5.0 | U |
| 75-25-2 | Bromoform | 5.0 | U |
| 98-82-8 | Isopropylbenzene | 5.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0104DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.002DL Date Received: 05/20/2002

Lab File ID: C5567 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 10.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0105

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.003 Date Received: 05/20/2002

Lab File ID: C5569 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.58 | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.41 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E0105

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.003 Date Received: 05/20/2002

Lab File ID: C5569 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 140 | E |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0105

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.003 Date Received: 05/20/2002

Lab File ID: C5569 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | 000078-78-4 | Butane, 2-methyl- | 3.10 | 1.2 | JN |
| 02 | | UNKNOWN | 3.40 | 1.0 | J |
| 03 | | | | | |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0105DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.003DL Date Received: 05/20/2002

Lab File ID: C5576 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 10.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 5.0 | U |
| 74-87-3 | Chloromethane | 5.0 | U |
| 75-01-4 | Vinyl Chloride | 5.0 | U |
| 74-83-9 | Bromomethane | 5.0 | U |
| 75-00-3 | Chloroethane | 5.0 | U |
| 75-69-4 | Trichlorofluoromethane | 5.0 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.0 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | U |
| 67-64-1 | Acetone | 50 | U |
| 75-15-0 | Carbon Disulfide | 5.0 | U |
| 79-20-9 | Methyl Acetate | 5.0 | U |
| 75-09-2 | Methylene Chloride | 2.5 | JD |
| 156-60-5 | trans-1,2-Dichloroethene | 5.0 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 5.0 | U |
| 75-34-3 | 1,1-Dichloroethane | 5.0 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 5.0 | U |
| 78-93-3 | 2-Butanone | 50 | U |
| 74-97-5 | Bromochloromethane | 5.0 | U |
| 67-66-3 | Chloroform | 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6.9 | D |
| 110-82-7 | Cyclohexane | 5.0 | U |
| 56-23-5 | Carbon Tetrachloride | 5.0 | U |
| 71-43-2 | Benzene | 5.0 | U |
| 107-06-2 | 1,2-Dichloroethane | 5.0 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
E0105DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.003DL Date Received: 05/20/2002

Lab File ID: C5576 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 10.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 80 | D |
| 108-87-2 | Methylcyclohexane | 5.0 | U |
| 78-87-5 | 1,2-Dichloropropane | 5.0 | U |
| 75-27-4 | Bromodichloromethane | 5.0 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.0 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 50 | U |
| 108-88-3 | Toluene | 5.0 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.0 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5.0 | U |
| 127-18-4 | Tetrachloroethene | 5.0 | U |
| 591-78-6 | 2-Hexanone | 50 | U |
| 124-48-1 | Dibromochloromethane | 5.0 | U |
| 106-93-4 | 1,2-Dibromoethane | 5.0 | U |
| 108-90-7 | Chlorobenzene | 5.0 | U |
| 100-41-4 | Ethylbenzene | 5.0 | U |
| 1330-20-7 | Xylene (total) | 5.0 | U |
| 100-42-5 | Styrene | 5.0 | U |
| 75-25-2 | Bromoform | 5.0 | U |
| 98-82-8 | Isopropylbenzene | 5.0 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.0 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5.0 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5.0 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5.0 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.0 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.0 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.0 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0105DL

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.003DL Date Received: 05/20/2002

Lab File ID: C5576 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 10.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0106

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.004 Date Received: 05/20/2002

Lab File ID: C5568 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.30 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0106

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.004 Date Received: 05/20/2002

Lab File ID: C5568 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0106

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.004 Date Received: 05/20/2002

Lab File ID: C5568 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0107

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.005 Date Received: 05/20/2002

Lab File ID: C5581 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.26 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
E0107

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.005 Date Received: 05/20/2002

Lab File ID: C5581 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0107

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1621.005 Date Received: 05/20/2002

Lab File ID: C5581 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.001 Date Received: 05/16/2002

Lab File ID: C5485 Date Analyzed: 05/26/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 15 | |
| 75-15-0 | Carbon Disulfide | 2.0 | |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E00Z1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.001 Date Received: 05/16/2002

Lab File ID: C5485 Date Analyzed: 05/26/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.37 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00Z1

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.001 Date Received: 05/16/2002

Lab File ID: C5485 Date Analyzed: 05/26/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 6

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | UNKNOWN | 2.73 | 4.1 | J |
| 02 | 000078-78-4 | Butane, 2-methyl- | 3.12 | 2.9 | JN |
| 03 | 000109-67-1 | 1-Pentene | 3.36 | 1.8 | JN |
| 04 | | UNKNOWN | 3.43 | 2.4 | J |
| 05 | | UNKNOWN | 3.71 | 0.60 | J |
| 06 | | UNKNOWN | 4.77 | 0.62 | J |
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E00Z2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.002 Date Received: 05/16/2002

Lab File ID: C5456 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E00Z2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.002 Date Received: 05/16/2002

Lab File ID: C5456 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00Z2

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.002 Date Received: 05/16/2002

Lab File ID: C5456 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 2

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | 000109-66-0 | Pentane | 3.45 | 1.2 | JN |
| 02 | | UNKNOWN | 4.49 | 0.55 | J |
| 03 | | | | | |
| 04 | | | | | |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z2MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.002MS Date Received: 05/16/2002

Lab File ID: C5469 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.9 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 2.2 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 4.7 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

E00Z2MS

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.002MS Date Received: 05/16/2002

Lab File ID: C5469 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 4.9 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 4.7 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 4.8 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z2MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.002MSD Date Received: 05/16/2002

Lab File ID: C5470 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.8 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 2.2 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 4.9 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z2MSD

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.002MSD Date Received: 05/16/2002

Lab File ID: C5470 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.0 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 4.8 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 4.8 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z7

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.003 Date Received: 05/16/2002

Lab File ID: C5457 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z7

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.003 Date Received: 05/16/2002

Lab File ID: C5457 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.19 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00Z7

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.003 Date Received: 05/16/2002

Lab File ID: C5457 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 8

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | UNKNOWN | 3.15 | 2.2 | J |
| 02 | 000109-66-0 | Pentane | 3.45 | 1.6 | JN |
| 03 | | UNKNOWN | 4.51 | 0.84 | J |
| 04 | 000110-54-3 | Hexane | 5.09 | 0.93 | JN |
| 05 | 000108-87-2 | Cyclohexane, methyl- | 8.08 | 0.61 | JN |
| 06 | | UNKNOWN | 9.74 | 0.59 | J |
| 07 | | UNKNOWN | 10.16 | 0.51 | J |
| 08 | | UNKNOWN | 14.06 | 0.99 | J |
| 09 | | | | | |
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00Z8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.004 Date Received: 05/16/2002

Lab File ID: C5458 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E00Z8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.004 Date Received: 05/16/2002

Lab File ID: C5458 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00Z8

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.004 Date Received: 05/16/2002

Lab File ID: C5458 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 3

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | UNKNOWN | 3.66 | 1.1 | J |
| 02 | | UNKNOWN | 14.07 | 0.56 | J |
| 03 | | UNKNOWN | 4.48 | 0.63 | J |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK03 Date Received: _____

Lab File ID: C5443 Date Analyzed: 05/23/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK03 Date Received: _____

Lab File ID: C5443 Date Analyzed: 05/23/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK03 Date Received: _____

Lab File ID: C5443 Date Analyzed: 05/23/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK04

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK04 Date Received: _____

Lab File ID: C5465 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
VBLK04

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK04 Date Received: _____

Lab File ID: C5465 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK04

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK04 Date Received: _____

Lab File ID: C5465 Date Analyzed: 05/24/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK05

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: VBLK05 Date Received: _____

Lab File ID: C5484 Date Analyzed: 05/26/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.34 | J |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 1.2 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

VBLK05

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: VBLK05 Date Received: _____

Lab File ID: C5484 Date Analyzed: 05/26/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK05

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: VBLK05 Date Received: _____

Lab File ID: C5484 Date Analyzed: 05/26/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 1

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | UNKNOWN | 2.72 | 3.5 | J |
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LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

VBLK08

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK08 Date Received: _____

Lab File ID: C5522 Date Analyzed: 05/28/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.21 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK08

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK08 Date Received: _____

Lab File ID: C5522 Date Analyzed: 05/28/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK08

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK08 Date Received: _____

Lab File ID: C5522 Date Analyzed: 05/28/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK10

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK10 Date Received: _____

Lab File ID: C5563 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK10

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK10 Date Received: _____

Lab File ID: C5563 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK10

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK10 Date Received: _____

Lab File ID: C5563 Date Analyzed: 05/30/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLK13

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK13 Date Received: _____

Lab File ID: C5633 Date Analyzed: 06/03/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.
VBLK13

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK13 Date Received: _____

Lab File ID: C5633 Date Analyzed: 06/03/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK13

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: CVBLK13 Date Received: _____

Lab File ID: C5633 Date Analyzed: 06/03/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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1LCA

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.005 Date Received: _____

Lab File ID: C5638 Date Analyzed: 06/03/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.005 Date Received: _____

Lab File ID: C5638 Date Analyzed: 06/03/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS

DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: A4 SCIENTIFIC, INC. Contract: 68-W-01-038

Lab Code: A4 Case No.: 30472 Client No.: SDG No.: E00Z1

Lab Sample ID: 1606.005 Date Received: _____

Lab File ID: C5638 Date Analyzed: 06/03/2002

Purge Volume: 25 (ML) Dilution Factor: 1.0

GC Column: RTX-624 ID: 0.32 (MM) Length: 60 (M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0021 CERCLIS No: ILN000508246

Case No: 30472 Site Name/Location: ELSWORTH INDUS. PARK

Contractor or EPA Lab: A4 SCIENTIFIC Data User: IEPA

No. of Samples: 9 Date Sampled or Date Received: 6-5-02

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: 9 No. of samples received: 9

Received by: Ena M. Dixon/ESAI Date: 6-5-02

Received by LSSS: Ena M. Dixon/ESAI Date: 6-5-02

Review started: 6-18-02 Reviewer Signature: Allison C Delaney

Total time spent on review: 10 Date review completed: 6-24-02

Copied by: Ena M. Dixon/ESAI Date: 6-24-02

Mailed to user by: Ena M. Dixon/ESAI Date: 6-24-02

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

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. Date: ____

TB
G-26
G-27 + 27D
G-22
FB

DATE: June 14, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Elsworth Industrial Park

| CASE NO. | LAB | NO. OF SAMPLES | SDG | MATRIX |
|---|---|---|---|---|
| 30534 | Compuchem | 6 | E0122 | 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: Eva M. Dixon, Sr. Data Specialist
ESAT

JUN 1 4 2002



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on June 3, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

Site name: Ellsworth Industrial Park (IL)

Case number: 30534 SDG Number: E0122

Number and Type of Samples: 6 water samples

Sample Numbers: E0122, E0123, E0124, E0125, E0133, E0136

Laboratory: Compuchem Hrs. for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

**Case Number : 30534**
**Site Name: Ellsworth Industrial Park (IL)**

**SDG Number: E0122**
**Laboratory: Compuchem**

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

Six water samples, numbered E0122, E0123, E0124, E0125, E0133 and E0136 were collected on 05/21-24/2002. The laboratory received the samples on 05/23-28/2002. Samples E0133 and E0136 were received at 15.8 °C. The remaining samples were received in good condition. All samples were analyzed for the list of volatile analytes according to CLP SOW OLC03.2 and reviewed according to USEPA CLP National Guidelines for Low Concentration Organic Data Review (June 2001).

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: June 12, 2002

**Case Number : 30534**
**Site Name: Ellsworth Industrial Park (IL)**

**SDG Number: E0122**
**Laboratory: Compuchem**

## 1. 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 a continuing calibration percent difference (%D) outside expanded criteria. Hits are flagged "J" and non-detects are flagged "UJ".

Methyl Acetate
E0122, E0123, E0123MS, E0123MSD, E0124, E0124DL, E0125, E0125DL, E0133, E0136, VBLKPN, VHBLKPK

The following volatile samples are associated with a continuing calibration in which a SMC/DMC exceeded percent difference (%D) criteria. Hits and non-detects are not flagged.

Vinyl chloride
E0122, E0123, E0123MS, E0123MSD, E0124, E0124DL, E0125, E0125DL, E0133, E0136, VBLKPN, VHBLKPK

## 4. METHOD BLANKS

The following volatile samples were analyzed after a highly contaminated sample and have no preceding instrument blank. There is a possibility of a carryover for the following analytes.

Acetone
E0123MS, E0124DL, E0125, E0133, E0136

1,1,1-Trichloroethane
E0123MS, E0125

Trichloroethene
E0125

The following volatile samples are associated with a contaminated storage blank. Hits are qualified "J" and non-detects are not flagged.

Trichloroethene
E0123, E0123MS, E0123MSD, E0124, E0124DL, E0125, E0125DL, E0133

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: June 12, 2002

**Case Number : 30534**
**Site Name: Ellsworth Industrial Park (IL)**

**SDG Number: E0122**
**Laboratory: Compuchem**

The following volatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is less than the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" or "UJ" and non-detects are not flagged unless otherwise qualified in a following section.

cis-1,3-Dichloropropene
E0122, E0123, E0123MS, E0123MSD, E0124, E0124DL, E0125, E0125DL, E0136, VHBLKPK

Toluene
E0122, E0123, E0124, E0124DL, E0125, E0125DL, E0133, E0136, VHBLKPK

Bromoform
E0122, E0123, E0123MS, E0123MSD, E0124, E0124DL, E0125, E0125DL, E0133, E0136

## 5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

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

E0123MS
Benzene

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No problems were found for this qualification.

## 7. FIELD BLANK AND FIELD DUPLICATE

Sample E0122 was identified as the trip blank. Sample E0136 was identified as the field blank. Samples E0124 and E0125 were identified as field duplicates. The results for the QC blanks are presented in the following table:

| Analytes<br>dilution factor = | E0122 (TB) | E0136 (FB) |
|---|---|---|
| | 1.0 | 1.0 |
| Acetone | 0.93 µg/L | 2.5 µg/L |
| Methylene Chloride | 0.14 µg/L | 0.26 µg/L |
| Chloroform | | 0.13 µg/L |

The duplicate samples were also analyzed in the diluted forms. The results for all the duplicate samples and their dilutions are presented in the following table:

**Case Number : 30534**
**Site Name: Ellsworth Industrial Park (IL)**

**SDG Number: E0122**
**Laboratory: Compuchem**

| Analytes dilution factor = | E0124 | E0124DL | E0125 | E0125DL |
|---|---|---|---|---|
| | 1.0 | 12.5 | 1 | 16.7 |
| Units | µg/L | µg/L | µg/L | µg/L |
| 1,1-Dichloroethene | 0.15 | | 0.15 | |
| Acetone | 7.8 | 41 | 9.1 | 54 |
| Carbon Disulfide | 0.41 | | 0.89 | |
| 1,1-Dichloroethane | 1.4 | 1.3 | 1.3 | |
| Cis-1,2-Dichloroethene | 0.17 | | 0.15 | |
| 2-Butanone | 1.7 | | | |
| 1,1,1-Trichloroethane | 9.5 | 8.2 | 11 | 10 |
| Benzene | | | 0.11 | |
| Trichloroethene | 190 | 210 | 200 | 260 |
| Tetrachloroethene | 0.59 | | 0.75 | |
| Xylenes (total) | 0.12 | | | |
| 1,4-Dichlorobenzene | 1.0 | | 1.1 | 2.2 |
| VOA TICs | | | 1 | |

Results are not qualified based upon the results of the field duplicates or QC blanks.

## 8. INTERNAL STANDARDS

No qualification were found for this qualification.

## 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

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

**Case Number : 30534**
**Site Name: Ellsworth Industrial Park (IL)**

**SDG Number: E0122**
**Laboratory: Compuchem**

E0122
Acetone, Methylene Chloride

E0123
Acetone, Carbon Disulfide,1,4-Dichlorobenzene

E0123MS
Acetone, Carbon Disulfide, Methylene Chloride

E0123MSD
Carbon Disulfide, 2-Butanone,1,4-Dichlorobenzene

E0124
1,1-Dichloroethene, Carbon Disulfide, cis-1,2-Dichloroethene, 2-Butanone, Xylenes (total)

E0124DL
Acetone, 1,1-Dichloroethane

E0125
1,1-Dichloroethene, cis-1,2-Dichloroethene, Benzene

E0125DL
Acetone, 1,4-Dichlorobenzene

E0133
Acetone, Carbon Disulfide

E0136
Acetone, Methylene Chloride, Chloroform

VBLKPN
cis-1,3-Dichloropropene, Toluene, Bromoform, 1,2,3-Trichlorobenzene

VHBLKPK
Trichloroethene

## 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

## 12. ADDITIONAL INFORMATION

The results of Trichloroethene for samples E0124 and E0125 were quantitated outside the calibration range. ..e results of the diluted samples (E0124DL and E0125DL) should be used for results validation.

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: June 12, 2002

**Case Number : 30534** **SDG Number: E0122**
**Site Name: Ellsworth Industrial Park (IL)** **Laboratory: Compuchem**

The COCs do not list samples E0122, E0123, E0124 and E0125 as acid-preserved but their samples tags indicate that they were preserved. The reviewer took a conservative approach and qualified the samples as if they were unpreserved. However, as the pH values for samples E0122 and E0125 were <2; no qualifications for samples E0122 and E0125 were needed.

The following volatile water samples were not properly preserved (pH=7). Hits for aromatics and ketones analytes are qualified "J" and non-detects are qualified "R".

E0123, E0124 and E0133
Acetone, 2-Butanone, Benzene, 4-Methyl-2-pentanone, Toluene, 2-Hexanone, Chlorobenzene, Ethylbenzene, Xylenes (total), Styrene, Isopropylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

The remaining analytes for samples E0123, E0124 and E0133 are qualified "J" and non-detects are qualified "UJ".

Two broken vials were received for sample E0123.

Reviewed By: Steffanie Tobin (IITRI/ESAT)
Date: June 12, 2002

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. |

Low Concentration Volatile Sample Analysis

Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| | | Sample No.: | E0123 |
| Sample Type: | Spike Original | | |
| Lab ID: | LIBRTY | Location: | G26 |
| Case No.: | 30534 | Matrix/Level: | Water/ |
| SDG No.: | E0122 | File Name: | E0122 |

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| | LABORATORY ARTIFACT | 13.63 | 0.57 | J |

*Q: Laboratory Qualifier

Low Concentration Volatile Sample Analysis

Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| | | Sample No.: | E0125 |
| Sample Type: | Routine Sample | | |
| Lab ID: | LIBRTY | Location: | G27D |
| Case No.: | 30534 | Matrix/Level: | Water/ |
| SDG No.: | E0122 | File Name: | E0122 |

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| | LABORATORY ARTIFACT | 13.64 | 0.69 | J |

*Q: Laboratory Qualifier

**Analytical Results (Qualified Data)**

Case #: 30534 SDG : E0122
Site : ELSWORTH INDUSTRIAL PARK
Lab. : Compuchem
Reviewer : S. Tobin
Date : 06-12-2002

Number of Soil Samples 0
Number of Water Samples : 6

| Sample Number : | E0122 | | E0123 | | E0123MS | | E0123MSD | | E0124 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | TB | | G26 | | G26 | | G26 | | G27 | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/22/2002 | | 05/21/2002 | | 05/21/2002 | | 05/21/2002 | | 05/22/2002 | |
| Time Sampled : | 15:00 | | 18:00 | | 18:00 | | 18:00 | | 12:45 | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | 1 | | 7 | | 1 | | 1 | | 7 | |
| 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 | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Chloromethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Vinyl Chloride | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Bromomethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Chloroethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Trichlorofluoromethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 1,1-Dichloroethene | 0.5 | U | 0.5 | UJ | 5 | | 5 | | 0.2 | J |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Acetone | 0.9 | J | 4 | J | 5 | J | 6 | | 8 | J |
| Carbon Disulfide | 0.5 | U | 0.2 | J | 0.1 | J | 0.2 | J | 0.4 | J |
| Methyl Acetate | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ | 0.5 | UJ |
| Methylene Chloride | 0.1 | J | 0.5 | UJ | 0.1 | J | 0.5 | U | 0.5 | UJ |
| trans-1,2-Dichloroethene | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| tert-Butyl Methyl Ether | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 1,1-Dichloroethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 1 | J |
| cis-1,2-Dichloroethene | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.2 | J |
| 2-Butanone | 5 | U | 5 | R | 5 | U | 1 | J | 2 | J |
| Bromochloromethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Chloroform | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 1,1,1-Trichloroethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 10 | J |
| Cyclohexane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Carbon Tetrachloride | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Benzene | 0.5 | U | 0.5 | R | 5 | J | 5 | | 0.5 | R |
| 1,2-Dichloroethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Trichloroethene | 0.5 | U | 0.7 | J | 5 | J | 6 | J | 190 | J |
| Methylcyclohexane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 1,2-Dichloropropane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Bromodichloromethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| cis-1,3-Dichloropropene | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 4-Methyl-2-pentanone | 5 | U | 5 | R | 5 | U | 5 | U | 5 | R |
| Toluene | 0.5 | U | 0.5 | R | 5 | | 5 | | 0.5 | R |
| trans-1,3-Dichloropropene | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 1,1,2-Trichloroethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |

**Analytical Results (Qualified Data)**

Case #: 30534 SDG : E0122
Site : ELSWORTH INDUSTRIAL PARK
Lab. : Compuchem
viewer : S. Tobin
Date : 06-12-2002

Number of Soil Samples : 0
Number of Water Samples : 6

| Sample Number : | E0122 | | E0123 | | E0123MS | | E0123MSD | | E0124 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | TB | | G26 | | G26 | | G26 | | G27 | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/22/2002 | | 05/21/2002 | | 05/21/2002 | | 05/21/2002 | | 05/22/2002 | |
| Time Sampled : | 15:00 | | 18:00 | | 18:00 | | 18:00 | | 12:45 | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | 1 | | 7 | | 1 | | 1 | | 7 | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Tetrachloroethene | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.6 | J |
| 2-Hexanone | 5 | U | 5 | R | 5 | U | 5 | U | 5 | R |
| Dibromochloromethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 1,2-Dibromoethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Chlorobenzene | 0.5 | U | 0.5 | R | 5 | | 5 | | 0.5 | R |
| Ethylbenzene | 0.5 | U | 0.5 | R | 0.5 | U | 0.5 | U | 0.5 | R |
| Xylenes (total) | 0.5 | U | 0.5 | R | 0.5 | U | 0.5 | U | 0.1 | J |
| Styrene | 0.5 | U | 0.5 | R | 0.5 | U | 0.5 | U | 0.5 | R |
| Bromoform | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Isopropylbenzene | 0.5 | U | 0.5 | R | 0.5 | U | 0.5 | U | 0.5 | R |
| 1,1,2,2-Tetrachloroethane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 1,3-Dichlorobenzene | 0.5 | U | 0.5 | R | 0.5 | U | 0.5 | U | 0.5 | R |
| 1,4-Dichlorobenzene | 0.5 | U | 0.4 | J | 0.6 | | 0.5 | J | 1 | J |
| 2-Dichlorobenzene | 0.5 | U | 0.5 | R | 0.5 | U | 0.5 | U | 0.5 | R |
| -Dibromo-3-chloropropane | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 1,2,4-Trichlorobenzene | 0.5 | U | 0.5 | R | 0.5 | U | 0.5 | U | 0.5 | R |
| 1,2,3-Trichlorobenzene | 0.5 | U | 0.5 | R | 0.5 | U | 0.5 | U | 0.5 | R |

**Analytical Results (Qualified Data)**

Case #: 30534 SDG : E0122
Site : ELSWORTH INDUSTRIAL PARK
Lab. : Compuchem
eviewer : S. Tobin
Date : 06-12-2002

Number of Soil Samples : 0
Number of Water Samples : 6

| Sample Number : | E0124DL | | E0125 | | E0125DL | | E0133 | | E0136 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G27 | | G27D | | G27D | | G22 | | FB | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/22/2002 | | 05/22/2002 | | 05/22/2002 | | 05/23/2002 | | 05/24/2002 | |
| Time Sampled : | 12:45 | | 12:45 | | 12:45 | | 14:00 | | 11:30 | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | 1 | | 1 | | 1 | | 7 | | 1 | |
| Dilution Factor : | 12.5 | | 1.0 | | 16.7 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Chloromethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Vinyl Chloride | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Bromomethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Chloroethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Trichlorofluoromethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| 1,1-Dichloroethene | 6 | U | 0.2 | J | 8 | U | 0.5 | UJ | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Acetone | 41 | J | 9 | | 54 | J | 2 | J | 3 | J |
| Carbon Disulfide | 6 | U | 0.9 | | 8 | U | 0.2 | J | 0.5 | U |
| Methyl Acetate | 6 | UJ | 0.5 | UJ | 8 | UJ | 0.5 | UJ | 0.5 | UJ |
| Methylene Chloride | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.3 | J |
| trans-1,2-Dichloroethene | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| tert-Butyl Methyl Ether | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| ,1-Dichloroethane | 1 | J | 1 | | 8 | U | 0.5 | UJ | 0.5 | U |
| cis-1,2-Dichloroethene | 6 | U | 0.2 | J | 8 | U | 0.5 | UJ | 0.5 | U |
| 2-Butanone | 63 | U | 5 | U | 84 | U | 5 | R | 5 | U |
| Bromochloromethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Chloroform | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.1 | J |
| 1,1,1-Trichloroethane | 8 | | 11 | | 10 | | 0.5 | UJ | 0.5 | U |
| Cyclohexane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Carbon Tetrachloride | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Benzene | 6 | U | 0.1 | J | 8 | U | 0.5 | R | 0.5 | U |
| 1,2-Dichloroethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Trichloroethene | 210 | J | 200 | J | 260 | J | 0.6 | J | 0.5 | U |
| Methylcyclohexane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| 1,2-Dichloropropane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Bromodichloromethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| cis-1,3-Dichloropropene | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| 4-Methyl-2-pentanone | 63 | U | 5 | U | 84 | U | 5 | R | 5 | U |
| Toluene | 6 | U | 0.5 | U | 8 | U | 0.5 | R | 0.5 | U |
| trans-1,3-Dichloropropene | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| 1,1,2-Trichloroethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30534 SDG : E0122
Site : ELSWORTH INDUSTRIAL PARK
Lab. : Compuchem
Reviewer : S. Tobin
Date : 06-12-2002

Number of Soil Samples : 0
Number of Water Samples : 6

| Sample Number : | E0124DL | | E0125 | | E0125DL | | E0133 | | E0136 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G27 | | G27D | | G27D | | G22 | | FB | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 05/22/2002 | | 05/22/2002 | | 05/22/2002 | | 05/23/2002 | | 05/24/2002 | |
| Time Sampled : | 12:45 | | 12:45 | | 12:45 | | 14:00 | | 11:30 | |
| %Moisture : | N/A | | N/A | | N/A | | N/A | | N/A | |
| pH : | 1 | | 1 | | 1 | | 7 | | 1 | |
| Dilution Factor : | 12.5 | | 1.0 | | 16.7 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Tetrachloroethene | 6 | U | 0.8 | | 8 | U | 0.5 | UJ | 0.5 | U |
| 2-Hexanone | 63 | U | 5 | U | 84 | U | 5 | R | 5 | U |
| Dibromochloromethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| 1,2-Dibromoethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Chlorobenzene | 6 | U | 0.5 | U | 8 | U | 0.5 | R | 0.5 | U |
| Ethylbenzene | 6 | U | 0.5 | U | 8 | U | 0.5 | R | 0.5 | U |
| Xylenes (total) | 6 | U | 0.5 | U | 8 | U | 0.5 | R | 0.5 | U |
| Styrene | 6 | U | 0.5 | U | 8 | U | 0.5 | R | 0.5 | U |
| Bromoform | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| Isopropylbenzene | 6 | U | 0.5 | U | 8 | U | 0.5 | R | 0.5 | U |
| 1,1,2,2-Tetrachloroethane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| 1,3-Dichlorobenzene | 6 | U | 0.5 | U | 8 | U | 0.5 | R | 0.5 | U |
| 1,4-Dichlorobenzene | 6 | U | 1 | | 2 | J | 0.7 | J | 0.5 | U |
| 1,2-Dichlorobenzene | 6 | U | 0.5 | U | 8 | U | 0.5 | R | 0.5 | U |
| 1,2-Dibromo-3-chloropropane | 6 | U | 0.5 | U | 8 | U | 0.5 | UJ | 0.5 | U |
| 1,2,4-Trichlorobenzene | 6 | U | 0.5 | U | 8 | U | 0.5 | R | 0.5 | U |
| 1,2,3-Trichlorobenzene | 6 | U | 0.5 | U | 8 | U | 0.5 | R | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30534 SDG : E0122
Site : ELSWORTH INDUSTRIAL PARK
Lab. : Compuchem
Reviewer : S. Tobin
Date : 06-12-2002

Number of Soil Samples : 0
Number of Water Samples : 6

| Sample Number : | VBLKPN | | VHBLKPK | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Water | | Water | | | | | | | |
| Units : | ug/L | | ug/L | | | | | | | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | N/A | | N/A | | | | | | | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | | | | | | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 0.5 | U | 0.5 | U | | | | | | |
| Chloromethane | 0.5 | U | 0.5 | U | | | | | | |
| Vinyl Chloride | 0.5 | U | 0.5 | U | | | | | | |
| Bromomethane | 0.5 | U | 0.5 | U | | | | | | |
| Chloroethane | 0.5 | U | 0.5 | U | | | | | | |
| Trichlorofluoromethane | 0.5 | U | 0.5 | U | | | | | | |
| 1,1-Dichloroethene | 0.5 | U | 0.5 | U | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | 0.5 | U | | | | | | |
| Acetone | 5 | U | 5 | U | | | | | | |
| Carbon Disulfide | 0.5 | U | 0.5 | U | | | | | | |
| Methyl Acetate | 0.5 | UJ | 0.5 | UJ | | | | | | |
| Methylene Chloride | 0.5 | U | 0.5 | U | | | | | | |
| trans-1,2-Dichloroethene | 0.5 | U | 0.5 | U | | | | | | |
| tert-Butyl Methyl Ether | 0.5 | U | 0.5 | U | | | | | | |
| 1-Dichloroethane | 0.5 | U | 0.5 | U | | | | | | |
| cis-1,2-Dichloroethene | 0.5 | U | 0.5 | U | | | | | | |
| 2-Butanone | 5 | U | 5 | U | | | | | | |
| Bromochloromethane | 0.5 | U | 0.5 | U | | | | | | |
| Chloroform | 0.5 | U | 0.5 | U | | | | | | |
| 1,1,1-Trichloroethane | 0.5 | U | 0.5 | U | | | | | | |
| Cyclohexane | 0.5 | U | 0.5 | U | | | | | | |
| Carbon Tetrachloride | 0.5 | U | 0.5 | U | | | | | | |
| Benzene | 0.5 | U | 0.5 | U | | | | | | |
| 1,2-Dichloroethane | 0.5 | U | 0.5 | U | | | | | | |
| Trichloroethene | 0.5 | U | 0.3 | J | | | | | | |
| Methylcyclohexane | 0.5 | U | 0.5 | U | | | | | | |
| 1,2-Dichloropropane | 0.5 | U | 0.5 | U | | | | | | |
| Bromodichloromethane | 0.5 | U | 0.5 | U | | | | | | |
| cis-1,3-Dichloropropene | 0.1 | J | 0.5 | U | | | | | | |
| 4-Methyl-2-pentanone | 5 | U | 5 | U | | | | | | |
| Toluene | 0.2 | J | 0.5 | U | | | | | | |
| trans-1,3-Dichloropropene | 0.5 | U | 0.5 | U | | | | | | |
| 1,1,2-Trichloroethane | 0.5 | U | 0.5 | U | | | | | | |

**Analytical Results (Qualified Data)**

Case #: 30534 SDG : E0122
Site : ELSWORTH INDUSTRIAL PARK
Lab. : Compuchem
viewer : S. Tobin
Date : 06-12-2002

Number of Soil Samples : 0
Number of Water Samples : 6

| Sample Number : | VBLKPN | | VHBLKPK | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Water | | Water | | | | | | | |
| Units : | ug/L | | ug/L | | | | | | | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | N/A | | N/A | | | | | | | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | | | | | | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Tetrachloroethene | 0.5 | U | 0.5 | U | | | | | | |
| 2-Hexanone | 5 | U | 5 | U | | | | | | |
| Dibromochloromethane | 0.5 | U | 0.5 | U | | | | | | |
| 1,2-Dibromoethane | 0.5 | U | 0.5 | U | | | | | | |
| Chlorobenzene | 0.5 | U | 0.5 | U | | | | | | |
| Ethylbenzene | 0.5 | U | 0.5 | U | | | | | | |
| Xylenes (total) | 0.5 | U | 0.5 | U | | | | | | |
| Styrene | 0.5 | U | 0.5 | U | | | | | | |
| Bromoform | 0.1 | J | 0.5 | U | | | | | | |
| Isopropylbenzene | 0.5 | U | 0.5 | U | | | | | | |
| 1,1,2,2-Tetrachloroethane | 0.5 | U | 0.5 | U | | | | | | |
| 1,3-Dichlorobenzene | 0.5 | U | 0.5 | U | | | | | | |
| 1,4-Dichlorobenzene | 0.5 | U | 0.5 | U | | | | | | |
| 1,2-Dichlorobenzene | 0.5 | U | 0.5 | U | | | | | | |
| 1,2-Dibromo-3-chloropropane | 0.5 | U | 0.5 | U | | | | | | |
| 1,2,4-Trichlorobenzene | 0.5 | U | 0.5 | U | | | | | | |
| 1,2,3-Trichlorobenzene | 0.1 | J | 0.5 | U | | | | | | |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 6-3-02

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ELSWORTH INDUSTRIAL PARK (IL)

CASE NUMBER: 30534 SDG NUMBER: E0122

Number and Type of Samples: 6 (WATER)

Sample Numbers: E0122-25, E0133, E0136

Laboratory: Compuchem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

CompuChem
a division of Liberty Analytical Corp.

ORIGINAL

**Sample Delivery Group (SDG)**
**Cover Sheet**

SDG Number E0122

| | | | |
|---|---|---|---|
| Laboratory Name | CompuChem | Laboratory Code | LIBRTY |
| Contract No. | 68W01043 | Case No. | 30534 |
| Analysis Price | $450.00 | SDG Turnaround | 21 |

EPA Sample Numbers in SDG (Listed in Numerical Order)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1) | E0122 | 7) | | 13) | | 19) | |
| 2) | E0123 | 8) | | 14) | | 20) | |
| 3) | E0124 | 9) | | 15) | | 21) | |
| 4) | E0125 | 10) | | 16) | | 22) | |
| 5) | E0133 | 11) | | 17) | | 23) | |
| 6) | E0136 | 12) | | 18) | | 24) | |

MS 5/28/02

| | |
|---|---|
| E0122 | E0136 |
| First Sample in SDG | Last Sample in SDG |
| 05/23/02 | 05/28/02 |
| First Sample Receipt Date | Last Sample Receipt Date |

**Note**: There are a maximum of 20 **field** samples (excluding PE samples in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Melissa Stein Date 5/28/02

# USEPA Contract Laboratory Program
# Organic Traffic Report

| | |
|---|---|
| Case No: | 30534 |
| DAS No: | |
| SDG No: | E0122 |

L

| | | |
|---|---|---|
| Date Shipped: 5/22/02<br>Carrier Name: UPS<br>Airbill: 1z6215892210020922<br>Shipped to: Liberty Analytical<br>501 Madison Avenue<br>Cary NC 27513<br>(919) 379-4080 | Date Received/Received by: 5/23/02 MiSlee<br>Lab Contract No: G8W01043 Unit Price: $450.00<br>Transfer To:<br>Date Received/Received By:<br>Lab Contract No: Price: | Sampler (Signature): James M. Salch |

| Relinquished By: | Date / Time: | Received By: |
|---|---|---|
| James M. Salch | 5/22/02 1630 | Nebth-5-23-02-0905 |
| Relinquished By: | Date / Time: | Received By: |
| Relinquished By: | Date / Time: | Received By: |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E0122 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-100917, 5-100918 (2) | TB | 5/22/02 15:00 | | Good |
| E0123 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-100919, 5-100920, 5-100921, 5-100922, 5-100923, 5-100924, 5-100925, 5-100926, 5-100927, 5-100928, 5-100929, 5-100930, 5-100931, 5-100932, 5-100933 (15) | G26 | 5/21/02 18:00 | | 2 Broken 40 ml |
| E0124 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-100934, 5-100935, 5-100936, 5-100937, 5-100938 (5) | G27 | 5/22/02 12:45 | | Good |
| E0125 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-100939, 5-100940, 5-100941, 5-100942, 5-100943 (5) | G27D | 5/22/02 12:45 | | |

(Received 2 Broken 40 ml, E0123)

ORIGINAL

| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: E0123 | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 3.6°C | Chain of Custody Seal Number: 31461 |
|---|---|---|---|---|
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? Y | Shipment Iced? Y |

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy ontract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Resto ). 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-052202-0001

# USEPA Contract Laboratory Program
# Organic Traffic Report

**Case No:** 30534
DAS No:
SDG No: E0122

L

| | | |
|---|---|---|
| Date Shipped: 5/24/02<br>Carrier Name: UPS<br>Airbill: J136 017 969 2<br>Shipped to: Liberty Analytical<br>501 Madison Avenue<br>Cary NC 27513<br>(919) 379-4080 | Date Received/Received by: 5/28/02 M. Stu<br>Lab Contract No: 68W01043 Unit Price: $450<br>Transfer To:<br>Date Received/Received By:<br>Lab Contract No: Price: | Sampler (Signature): James M. Salch |

| Relinquished By: | Date / Time: | Received By: |
|---|---|---|
| | 5-24-02 1500 | [illegible] - 5-28-02 07 75 |
| Relinquished By: | Date / Time: | Received By: |
| Relinquished By: | Date / Time: | Received By: |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E0133 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-100952, 5-100953, 5-100954, 5-100955, 5-100956 (5) | G22 | 5/23/02 14:00 | | Good |
| E0136 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-100961, 5-100962, 5-100963, 5-100964, 5-100965 (5) | FB | 5/24/02 11:30 | | SDG Fund Sample |

ORIGINAL

| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 1.58C | Chain of Custody Seal Number: 81500 |
|---|---|---|---|---|
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? Y | Shipment Iced? Y |

PR provides preliminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Resto. .. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-052402-0001

JUN 03 2002


# CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050


## SDG NARRATIVE
## CASE #30534
## SDG #E0122
## CONTRACT # 68W01043

**SAMPLE IDENTIFICATIONS: E0122 E0123 E0124(DL) E0125(DL) E0133 E0136**

The six water samples listed above were received, at 3.6, and 15.8 degrees C, with documentation, in sealed shipping containers on May 23, and 28, 2002. All samples were submitted for volatile only analysis, and were prepared and analyzed following Contract Laboratory Programl(CLP) Statement of Work(SOW), document OLC03.2. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 30534 SDG # E0122 are included in the sample data sections. All pH values were measured at less than 2.0 except for E0133, E0123, and E0124, and a copy of the pH results are included in the narrative section. Analysis Holding Time(AHT) requirements were met for all samples. Two broken vials were received for sample E0123 which was designated for QC, however sufficient volume was available for analysis. Samples E0133, and E0134 were received at 15.8 degrees C, and SMO was contacted and instructed the lab to proceed with sample analysis. A copy of the e-mail accompanies this narrative.

The example calculation with all relavent formulae are found in a sheet immediately following this narrative.

The Target Compound List(TCL) analytes acetone, 1,1-dichloroethane, 1,1,1-trichloroethane, trichloroethene, tetrachloroethene, and 1,4-dichlorobenzene were the most frequently identified above the Contract Required Quantitation Limit(CRQL) in the submitted samples. Samples E0124, and E0125 were diluted due to high levels of trichloroethene, and we have reported and billed for both neat and diluted analyses.

No instrument blank separated concurrently analyzed samples E0124, and E0125 both with trichloroethene at levels outside of calibration limits, and there is potential for carryover. Due to the fact that we are providing diluted reanalyses of both of these samples with all target analytes within calibration limits, we are reporting the data with reference to this qualifier. Again no instrument blank separated samples E0125(with exceeding levels of triichloroethene), and sample E0136. Due to the fact that no trichloroethene was present in E0136 above the CRQL, we are reporting the data with reference to this qualifier.

Other than laboratory artifact peaks, no reportable Tentatively Identified Compounds(TICs) were present in these samples.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for the initial, and continuing calibration standard(s) associated to this SDG
In a response to a Statement of Work(SOW) interpretation, Terry Smith, Program Manager for the Organic Contract Laboratory Program, stated that if the mass spectral interpretation specialist determines the TICs to be laboratory artifacts present in blanks, and their associated samples, there is no need to report them, and all other TICs not reported due to mass spectral interpretation specialist's assessment should be noted in the SDG narrative.
There are two general laboratory artifacts not reported on the Form 1 LCFs. There approximate retention times and origin are as follows:

9.321 minutes cis-1,3-dichloropropene-d4: extra compound in the DMC solution
11.190 minutes siloxane artifact
These are present in the majority of standards, and samples.

## SDG #E0122

**Example Calculation for the Volatile Fraction**

**Calculation of RRF**

**RRF=(Ax*Cis)/Ais *Cx)**

**Where:** **Ax=Area of the characteristic ion(EICP) for the compound to be measured**
**Ais= Area of the chracteristic ion(EICP) for the specific internal standard**
**Cis= Concentration of the internal standard**
**Cx=Concentration of the compound to be measured**

**Example: Acetone RRF from CS011018A71**

**Ax=39051**
**Ais=360114**
**Cis=125**
**Cx=625**

**RRF=(39051*125)/(360114*625)**
**= 0.02169**

Calculation of Concentration:
Concentration(ug/L)= (Ax*Is*Df)/(Ais*RRF*Vo)
Where: Ax= Area of the characteristic ion(EICP) for the compound to be measured
Ais=Area of the characteristic ion(EICP) for the internal standard
Is=Amount of the internal standard added in nanograms
RRF= The relative response factor from the continuing calibration standard
Vo=Total volume of water purged, in milliliters
Df=Dilution factor

Example: Concentration of acetone in E0122

Ax= 1360
Ais= 336853
Is= 125
RRF= 0.02169
Vo= 25
Df= 1.0

Concentration = (1360*125*1.0)/(336853*0.02169 *25)
= 0.931
= 0.93

The deuterated monitoring compounds (DMCs) met recovery criteria in the analyses of these samples with allowable minimal failures, and all of the internal standards met retention time and response criteria in the analyses of these samples.

The associated method blank, and storage blank met all quality control criteria, and did not contain any target analytes above the CRQL.

.

Duplicate matrix spikes were generated from E0123 as designated by the region, and all QC precision and accuracy criteria were met.

Manual quantitations were performed on some of the process files in the associated initial and continuing calibrations, and in all samples except E0125, and E0125DL. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.

Low level hits of bromoform, and cis -1,3-dichloropropene are reported in some samples, and the method blank. It is the laboratory's opinion that these his are the result of reaction of the associated DMC solution with methanol(back exchange), and may not be actual sample constituents.

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/her designee, as verified by the following signature.

Roy Sutton
Case Reviewer
May 31, 2002

## Melissa Stevens

**From:** Brown, Jessica <Jessica.Brown@dyncórp.com>
**To:** Melissa Stevens (E-mail) <mstevens@compuchemlabs.com>
**Cc:** Howard Pham (E-mail) <pham.howard@epa.gov>; Bob Casper (E-mail) <epa4407@epa.state.il.us>
**Sent:** Friday, May 31, 2002 9:22 AM
**Subject:** Region 05 | Case 30534 | Lab LIBRTY | Issue Broken sample | FINAL

Hi Melissa,

In accordance with previous direction from Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the sample. If re-extraction is necessary, the laboratory will contact the SMO coordinator and wait for a resolution.

Thanks,
Jessica

-----Original Message-----
**From:** Melissa Stevens [mailto:mstevens@compuchemlabs.com]
**Sent:** Thursday, May 30, 2002 4:46 PM
**To:** Brown, Jessica
**Subject:** 30534

Jessica,
On May 23, 2002 we received two broken voa vials for sample E0123. This is the QC sample which we had thirteen vials left for analysis.

Melissa Stevens
EPA Coordinator
(919) 379-4081
CompuChem a division of Liberty Analytical
mstevens@compuchemlabs.com

5

CompuChem
a division of Liberty Analytical Corporation

## QUALITY ASSURANCE NOTICE

Client EPA
Case # 30534
Type of Analysis VOA
Receipt Date 5-28-02

For some organic and/or inorganic determinations temperature preservation at 4 degrees Celsius is required for environmental samples during shipment to the laboratory and prior to analysis. A temperature tolerance range is generally allowed. Temperature of a representative sample from the shipping container is taken and recorded by the receiving clerk at the time of sample receipt. This temperature is representative of all samples contained in the cooler. The EPA CLP program requires the laboratory make notification when the temperature exceeds 10 degrees Celsius. The State of North Carolina allows a range of 2-4.4° Celsius. Notification to other clients is either client or project dependent.

Samples that are hand delivered to the laboratory immediately after collection may not meet this criteria. In these cases, the samples shall be considered acceptable if there is evidence that the chilling process has begun, such as arrival on ice.

The temperature of this sample at the time of receipt was determined to be 15°C.

A CompuChem customer service representative contacted the client. The client instructed the Receiving department to:

- Hand Delivery/Received on ice _____
- Analyze - qualify with notice ✓
- Dispose - client will resample _____

Supervisor Signature/ID Melissa Ste / 1963 Date 5-28-02

QAN-R-3
020205

**Melissa Stevens**

**From:** Brown, Jessica <Jessica.Brown@dyncorp.com>
**To:** Melissa Stevens (E-mail) <mstevens@compuchemlabs.com>
**Cc:** Howard Pham (E-mail) <pham.howard@epa.gov>; Mark Wagner (E-mail 2) <EPA4415@epa.state.il.us>
**Sent:** Wednesday, May 29, 2002 9:08 AM
**Subject:** Region 05 | Case 30534 | Lab LIBRTY | Issue Preservative | FINAL

Hi Melissa,

Per Region 5, please note the temperature discrepancy in the SDG Narrative and proceed with the analysis of the samples received under Case 30534.

Thanks,
Jessica

-----Original Message-----
From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Tuesday, May 28, 2002 5:18 PM
To: Brown, Jessica
Subject: Re: Region 05 | Case 30534 | Lab LIBRTY | Issue Preservative

Hi Jessica,

Please ask the lab proceed the analyses as Mark's resolution and made a note in the case narrative.
Thanks,

Howard Pham

4:44PM 5/28/02
Jessica Brown, SMO, left a voice-mail message for Howard Pham, USEPA Region 5 RSCC, concerning Case 30534.

> -----Original Message-----
> From: Brown, Jessica
> Sent:Tuesday, May 28, 2002 2:29 PM
> To:Howard Pham (E-mail)
> Subject:Region 05 | Case 30534 | Lab LIBRTY | Issue Preservative
>
> Hi Howard,
>
> The following is the response from Mark Wagner, IL-EPA. Please advise on
> how the lab should proceed.
>
> Thanks,
> Jessica
>
> -----Original Message-----
> From: Mark Wagner [mailto:EPA4415@epa.state.il.us]
> Sent: Tuesday, May 28, 2002 1:50 PM

> To: Brown, Jessica
> Subject: Re: Region 05 | Case 30534 | Lab LIBRTY | Issue Preservative
>
> Please analyze them.
>
> Mark E. Wagner, Project Manager, OSE
> Illinois Environmental Protection Agency
> 1021 N. Grand Ave. East
> P.O. Box 19276
> Springfield, Illinois 62794-9276
> 217-524-1662, Fax 217-782-3258
> epa4415@epa.state.il.us
>
> -----Original Message-----
> From: Brown, Jessica
> Sent:Tuesday, May 28, 2002 12:38 PM
> To:Bob Casper (E-mail); Mark Wagner (E-mail 2)
> Cc:Howard Pham (E-mail)
> Subject:Region 05 | Case 30534 | Lab LIBRTY | Issue Preservative
>
> Per LIBRTY, the cooler for Case 30534 was received today, 5/28/02, at 15
> degrees C. Please advise on how the lab should proceed as quickly as
> possible.
>
> Thanks,
> Jessica
>
> Record of Communication
>
> 12:00PM 5/28/02
> Jessica Brown, SMO, spoke with Melissa Stevens, LIBRTY, concerning Case
> 30534. Friday's shipment was received today because the shipment was not
> marked for 'Saturday delivery'. The cooler temperature was 15 degrees C
> upon receipt. Two samples were received; E0133 and E0136.
>
> Jessica Brown
> DynCorp Systems & Solutions LLC
> CLP Coordinator for Regions 4, 5, & 8
> jessica.brown@dyncorp.com
> Ph: 703.264.9349; Fax: 703.264.9222
>
>
>

**CompuChem**
a Division of Liberty Analytical Corp.

GC/MS VOA Batch Sheet - Water

IP 250/460/462/475/480B/483

Method: 8LC3

Batch #: _____

| SAMPLENUM | CLIENTID | LOGINNUM | pH | Time | Date | INST # | Operator | H/T | Volume | Bottle # | Report | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E0122-1 | E0122 | E0122 | | | | | | | | | | |
| E0122-2 | E0123 | E0122 | | | | | | | | | | |
| E0122-3 | E0124 | E0122 | | | | | | | | | | |
| E0122-4 | E0125 | E0122 | | | | | | | | | | |
| WG17714-1 | VBLKPN | | | | | | | | | | | |
| WG17714-2 | VBLKPO | | | | | | | | | | | |
| WG17714-3 | VBLKPP | | | | | | | | | | | |
| WG17714-4 | E0123MS | | | | | | | | | | | |
| WG17714-5 | E0123MSD | | | | | | | | | | | |
| WG17714-6 | ~~WAIT~~ VHBLKPN | | | | | | | | | | | |
| E0122-5 | E0133 | E0122 | 7 | 1313 | 5.30.02 | 71 | 2423 | | 25ml | 1 | LS | |
| E0122-6 | E0136 | E0122 | 1 | 1338 | ↓ | ↓ | ↓ | | ↓ | 1 | — | |
| E0122-5R | | | 1 | 1427 | | | | | | 2 | — | |

closed

HT 6/7/02

DUE 6/17/02

# COMPUCHEM

## Work Group Report (wk02)

*29-MAY-02 11:17 AM*

**Work Group:** WG17714
**Department:** 435 MS/VOA ANALYSIS **Created:** 24-MAY-02

| Sample | Client ID | Product | Matrix | RecvDate | Bottle# | Lab Information |
|---|---|---|---|---|---|---|
| E0122-1 | E0122 | VOA-OLC03.2 | Water | 23-MAY-02 | | |
| E0122-2 | E0123 | VOA-OLC03.2 | Water | 23-MAY-02 | | |
| E0122-3 | E0124 | VOA-OLC03.2 | Water | 23-MAY-02 | | |
| E0122-4 | E0125 | VOA-OLC03.2 | Water | 23-MAY-02 | | |
| E0122-5 | E0133 | VOA-OLC03.2 | Water | 28-MAY-02 | | |
| E0122-6 | E0136 | VOA-OLC03.2 | Water | 28-MAY-02 | | |
| WG17714-1 | VBLKPN | VOA-OLC03.2 | Water | 24-MAY-02 | | |
| WG17714-2 | VBLKPO | VOA-OLC03.2 | Water | 24-MAY-02 | | |
| WG17714-3 | VBLKPP | VOA-OLC03.2 | Water | 24-MAY-02 | | |
| WG17714-4 | E0123MS | VOA-OLC03.2 | Water | 24-MAY-02 | | |
| WG17714-5 | E0123MSD | VOA-OLC03.2 | Water | 24-MAY-02 | | |
| WG17714-6 | WAIT | VOA-OLC03.2 | Water | 24-MAY-02 | | |

**Comments**

| | |
|---|---|
| E0122-1 | OLC03.2/*TRIP BLANK |
| E0122-2 | OLC03.2/*USE FOR QC |
| E0122-3 | OLC03.2 |
| E0122-4 | OLC03.2 |
| E0122-5 | OLC03.2 |
| E0122-6 | OLC03.2 |

**Internal Chain of Custody**

| Relinquished By | Date | Received By | Date | Reason |
|---|---|---|---|---|
| Cooler 2b | 5.30.02 | m2 | 5.30 | Analysis |
| m2 | 5.30 | Ref #4 | 5-30 | Storage |
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10

**CompuChem**
a Division of Liberty Analytical Corp.

GC/MS VOA Batch Sheet - Water

IP 250/460/462/475/480B/483

Method: 8LC3

Batch #: _____

| SAMPLENUM | CLIENTID | LOGINNUM | pH | Time | Date | INST # | Operator | H/T | Volume | Bottle # | Report | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E0122-1 | E0122 | E0122 | 1 | 1134 | 5-30-02 | 71 | 2423 | | 25ml | 1 | — | |
| E0122-2 | E0123 | E0122 | 7 | 1158 | ↓ | ↓ | ↓ | | ↓ | 1 | — | |
| E0122-3 | E0124 | E0122 | 7 | 1224 | | | | | | 1 | DI | TCE @ 150 |
| E0122-4 | E0125 | E0122 | 1 | 1248 | | | | | | 1 | DI | ↓ 200 |
| WG17714-1 | VBLKPN | | | 1038 | ↓ | ↓ | ↓ | | ↓ | | — | |
| WG17714-2 | VBLKPO | | | | | | | | | | | |
| WG17714-3 | VBLKPP | | | | | | | | | | | |
| WG17714-4 | E0123MS | | 1 | 1452 | 5-30 | 71 | 2423 | | 25ml | 2 | — | |
| WG17714-5 | E0123MSD | | 1 | 1517 | ↓ | ↓ | ↓ | | ↓ | 3 | — | |
| WG17714-6 | WAIT | | | | | | | | | | | |
| E0122-3D | | | | 1541 | 5-30 | 71 | 2423 | | 2ml | 1 | — | |
| E0122-4D | | | | 1606 | ↓ | ↓ | ↓ | | ↓ 1.5ml | 1 | — | |

BLH 5/31/02

HT 6/2/02

DUE 6/12/02

# COMPUCHEM

## Work Group Report (wk02)

*24-MAY-02 11:28 AM*

**Work Group:** WG17714
**Department:** 435 MS/VOA ANALYSIS **Created:** 24-MAY-02

| Sample | Client ID | Product | Matrix | RecvDate | Bottle# | Lab Information |
|---|---|---|---|---|---|---|
| E0122-1 | E0122 | VOA-OLC03.2 | Water | 23-MAY-02 | | |
| E0122-2 | E0123 | VOA-OLC03.2 | Water | 23-MAY-02 | | |
| E0122-3 | E0124 | VOA-OLC03.2 | Water | 23-MAY-02 | | |
| E0122-4 | E0125 | VOA-OLC03.2 | Water | 23-MAY-02 | | |
| WG17714-1 | VBLKPN | VOA-OLC03.2 | Water | 24-MAY-02 | | |
| WG17714-2 | VBLKPO | VOA-OLC03.2 | Water | 24-MAY-02 | | |
| WG17714-3 | VBLKPP | VOA-OLC03.2 | Water | 24-MAY-02 | | |
| WG17714-4 | E0123MS | VOA-OLC03.2 | Water | 24-MAY-02 | | |
| WG17714-5 | E0123MSD | VOA-OLC03.2 | Water | 24-MAY-02 | | |
| WG17714-6 | WAIT | VOA-OLC03.2 | Water | 24-MAY-02 | | |

**Comments**

| | |
|---|---|
| E0122-1 | OLC03.2/*TRIP BLANK |
| E0122-2 | OLC03.2/*USE FOR QC |
| E0122-3 | OLC03.2 |
| E0122-4 | OLC03.2 |

**Internal Chain of Custody**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Relinquished By | Cooler 2b | Date 5-30-02 | Received By | M2 | Date 5-30 | Reason | Analysis |
| Relinquished By | M2 | Date 5:30 | Received By | Ref # | Date 5 30 | Reason | Storage |
| Relinquished By | | Date | Received By | | Date | Reason | |
| Relinquished By | | Date | Received By | | Date | Reason | |
| Relinquished By | | Date | Received By | | Date | Reason | |
| Relinquished By | | Date | Received By | | Date | Reason | |
| Relinquished By | | Date | Received By | | Date | Reason | |
| Relinquished By | | Date | Received By | | Date | Reason | |

11A

2LCA

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

| | EPA SAMPLE NO. | VDMC1 (VCL) # | VDMC2 (CLA) # | VDMC3 (DCE) # | VDMC4 (BUT) # | VDMC5 (CLF) # | VDMC6 (DCA) # | VDMC7 (BEN) # |
|---|---|---|---|---|---|---|---|---|
| 01 | VBLKPN | 102 | 100 | 82 | 114 | 100 | 104 | 106 |
| 02 | E0122 | 104 | 104 | 82 | 108 | 96 | 98 | 102 |
| 03 | E0123 | 98 | 98 | 78 | 126 | 96 | 106 | 106 |
| 04 | E0124 | 98 | 100 | 80 | 130 | 96 | 104 | 108 |
| 05 | E0125 | 98 | 98 | 78 | 130 | 98 | 104 | 106 |
| 06 | E0136 | 104 | 100 | 80 | 128 | 100 | 108 | 106 |
| 07 | E0133 | 94 | 94 | 76 | 114 | 94 | 100 | 100 |
| 08 | E0123MS | 118 | 120 | 114 | 152 | 116 | 126 | 124* |
| 09 | E0123MSD | 98 | 98 | 100 | 130 | 96 | 104 | 104 |
| 10 | E0124DL | 100 | 100 | 81 | 125 | 100 | 105 | 105 |
| 11 | E0125DL | 101 | 104 | 83 | 119 | 98 | 107 | 106 |
| 12 | VHBLKPK | 104 | 108 | 86 | 114 | 100 | 102 | 112 |
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| | | | QC LIMITS |
|---|---|---|---|
| VDMC1 | (VCL) | = Vinyl Chloride-d3 | (49-138) |
| VDMC2 | (CLA) | = Chloroethane-d5 | (60-126) |
| VDMC3 | (DCE) | = 1,1-Dichloroethene-d2 | (65-130) |
| VDMC4 | (BUT) | = 2-Butanone-d5 | (42-171) |
| VDMC5 | (CLF) | = Chloroform-d | (80-123) |
| VDMC6 | (DCA) | = 1,2-dichloroethane-d4 | (78-129) |
| VDMC7 | (BEN) | = Benzene-d6 | (78-121) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

2LCB

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

| == | EPA SAMPLE NO. | VDMC8 (DPA) # | VDMC9 (TOL) # | VDMC10 (TDP) # | VDMC11 (HEX) # | VDMC12 (BRF) # | VDMC13 (TCA) # | VDMC14 (DCZ) # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|
| 01 | VBLKPN | 106 | 102 | 100 | 102 | 100 | 104 | 106 | 0 |
| 02 | E0122 | 100 | 100 | 86 | 74 | 92 | 86 | 100 | 0 |
| 03 | E0123 | 104 | 100 | 106 | 98 | 104 | 104 | 110 | 0 |
| 04 | E0124 | 110 | 104 | 112 | 106 | 114 | 110 | 112 | 0 |
| 05 | E0125 | 106 | 102 | 102 | 100 | 112 | 102 | 112 | 0 |
| 06 | E0136 | 106 | 102 | 108 | 100 | 102 | 106 | 108 | 0 |
| 07 | E0133 | 100 | 98 | 96 | 96 | 98 | 98 | 104 | 0 |
| 08 | E0123MS | 122 | 116 | 116 | 116 | 128 | 124 | 128 | 1 |
| 09 | E0123MSD | 104 | 98 | 98 | 100 | 114 | 100 | 110 | 0 |
| 10 | E0124DL | 105 | 100 | 100 | 92 | 97 | 97 | 106 | 0 |
| 11 | E0125DL | 105 | 102 | 99 | 92 | 106 | 100 | 110 | 0 |
| 12 | VHBLKPK | 106 | 106 | 100 | 78 | 100 | 96 | 108 | 0 |
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| | | | QC LIMITS |
|---|---|---|---|
| VDMC8 | (DPA) | = 1,2-Dichloropropane-d6 | (84-123) |
| VDMC9 | (TOL) | = Toluene-d8 | (77-120) |
| VDMC10 | (TDP) | = trans-1,3-Dichloropropene-d4 | (80-128) |
| VDMC11 | (HEX) | = 2-Hexanone-d5 | (37-169) |
| VDMC12 | (BRF) | = Bromoform-d | (76-135) |
| VDMC13 | (TCA) | = 1,1,2,2-Tetrachloroethane-d2 | (75-131) |
| VDMC14 | (DCZ) | = 1,2-Dichlorobenzene-d4 | (50-150) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

3LCA
LOW CONCENTRATION WATER VOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

b Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Matrix Spike - EPA Sample No.: E0123

| COMPOUND | SPIKE ADDED (UG/L) | SAMPLE CONCENTRATION (UG/L) | MS CONCENTRATION (UG/L) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 0.0 | 5.2 | 104 | 61-145 |
| Benzene | 5.0 | 0.0 | 4.8 | 96 | 76-127 |
| Trichloroethene | 5.0 | 0.70 | 5.4 | 94 | 71-120 |
| Toluene | 5.0 | 0.20 | 4.7 | 90 | 76-125 |
| Chlorobenzene | 5.0 | 0.0 | 4.7 | 94 | 75-130 |

| COMPOUND | SPIKE ADDED (UG/L) | MSD CONCENTRATION (UG/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 5.2 | 104 | 0 | 14 | 61-145 |
| Benzene | 5.0 | 5.0 | 100 | 4 | 11 | 76-127 |
| Trichloroethene | 5.0 | 5.6 | 98 | 4 | 14 | 71-120 |
| Toluene | 5.0 | 4.8 | 92 | 2 | 13 | 76-125 |
| Chlorobenzene | 5.0 | 4.8 | 96 | 2 | 13 | 75-130 |

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

* Values outside of QC limits

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

COMMENTS:

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BlANK SUMMARY

EPA SAMPLE NO.

VBLKPN

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17714-1 Date Analyzed: 05/30/2002

Lab File ID: WG17714-1A71 Time Analyzed: 1058

Instrument ID: 5972HP71

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E0122 | E0122-1 | E0122-1A71 | 1134 |
| 02 | E0123 | E0122-2 | E0122-2A71 | 1158 |
| 03 | E0124 | E0122-3 | E0122-3A71 | 1224 |
| 04 | E0125 | E0122-4 | E0122-4A71 | 1248 |
| 05 | E0136 | E0122-6 | E0122-6A71 | 1338 |
| 06 | E0133 | E0122-5 | E0122-5R71 | 1427 |
| 07 | E0123MS | WG17714-4 | WG17714-4A71 | 1452 |
| 08 | E0123MSD | WG17714-5 | WG17714-5A71 | 1517 |
| 09 | E0124DL | E0122-3 | E0122-3DA71 | 1541 |
| 10 | E0125DL | E0122-4 | E0122-4DA71 | 1606 |
| 11 | VHBLKPK | WG17711-6 | WG17711-6A71 | 2126 |
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COMMENTS:



FORM IV LCV OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0122

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-1 Date Received: 05/23/2002

Lab File ID: E0122-1A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 0.93 | J |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.14 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0122

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-1 Date Received: 05/23/2002

Lab File ID: E0122-1A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 0.~~11~~ | ~~J~~BU |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 0.~~21~~ | ~~J~~B U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 0.16 | JB |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0122

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-1 Date Received: 05/23/2002

Lab File ID: E0122-1A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0123

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-2 Date Received: 05/23/2002

Lab File ID: E0122-2A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 4.0 | J |
| 75-15-0 | Carbon Disulfide | 0.16 | J |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0123

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-2 Date Received: 05/23/2002

Lab File ID: E0122-2A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.70 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.13 | ~~J~~B |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.20 | ~~J~~B |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.18 | ~~J~~B |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.40 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

5 6/4/02

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0123

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-2 Date Received: 05/23/2002

Lab File ID: E0122-2A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 1

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | LABORATORY ARTIFACT | 13.63 | 0.57 | J |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0123MS

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17714-4 Date Received: 05/23/2002

Lab File ID: WG17714-4A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.2 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 4.7 | J |
| 75-15-0 | Carbon Disulfide | 0.14 | J |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.13 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 4.8 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0123MS

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17714-4 Date Received: 05/23/2002

Lab File ID: WG17714-4A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.4 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.51 ~~0.14~~ | ~~JB~~ U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 4.7 | B |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 4.7 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.51 ~~0.21~~ | ~~JB~~ U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.64 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0123MSD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17714-5 Date Received: 05/23/2002

Lab File ID: WG17714-5A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.2 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.8 | |
| 75-15-0 | Carbon Disulfide | 0.18 | J |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 1.0 | J |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 5.0 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0123MSD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17714-5 Date Received: 05/23/2002

Lab File ID: WG17714-5A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.6 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.11 | JB U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 4.8 | B |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 4.8 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.19 | JB U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.48 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

6/10/02

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0124

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-3 Date Received: 05/23/2002

Lab File ID: E0122-3A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.15 | J |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 7.8 | |
| 75-15-0 | Carbon Disulfide | 0.41 | J |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.4 | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.17 | J |
| 78-93-3 | 2-Butanone | 1.7 | J |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 9.5 | |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0124

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-3 Date Received: 05/23/2002

Lab File ID: E0122-3A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 190 | E |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 ~~0.14~~ | ~~JB~~ U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 ~~0.32~~ | ~~JB~~ U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.59 | |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.12 | J |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 ~~0.17~~ | ~~JB~~ U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

JT 4/12/02

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0124

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-3 Date Received: 05/23/2002

Lab File ID: E0122-3A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0124DL

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-3 Date Received: 05/23/2002

Lab File ID: E0122-3DA71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 12.5

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 6.3 | U |
| 74-87-3 | Chloromethane | 6.3 | U |
| 75-01-4 | Vinyl Chloride | 6.3 | U |
| 74-83-9 | Bromomethane | 6.3 | U |
| 75-00-3 | Chloroethane | 6.3 | U |
| 75-69-4 | Trichlorofluoromethane | 6.3 | U |
| 75-35-4 | 1,1-Dichloroethene | 6.3 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6.3 | U |
| 67-64-1 | Acetone | 41 | DJ |
| 75-15-0 | Carbon Disulfide | 6.3 | U |
| 79-20-9 | Methyl Acetate | 6.3 | U |
| 75-09-2 | Methylene Chloride | 6.3 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 6.3 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 6.3 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.3 | DJ |
| 156-59-2 | cis-1,2-Dichloroethene | 6.3 | U |
| 78-93-3 | 2-Butanone | 63 | U |
| 74-97-5 | Bromochloromethane | 6.3 | U |
| 67-66-3 | Chloroform | 6.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 8.2 | D |
| 110-82-7 | Cyclohexane | 6.3 | U |
| 56-23-5 | Carbon Tetrachloride | 6.3 | U |
| 71-43-2 | Benzene | 6.3 | U |
| 107-06-2 | 1,2-Dichloroethane | 6.3 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0124DL

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-3 Date Received: 05/23/2002

Lab File ID: E0122-3DA71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 12.5

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 210 | D |
| 108-87-2 | Methylcyclohexane | 6.3 | U |
| 78-87-5 | 1,2-Dichloropropane | 6.3 | U |
| 75-27-4 | Bromodichloromethane | 6.3 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.2 ~~1.3~~ | D~~J~~BU |
| 108-10-1 | 4-Methyl-2-Pentanone | 63 | U |
| 108-88-3 | Toluene | 6.2 ~~2.0~~ | D~~J~~BU |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6.3 | U |
| 127-18-4 | Tetrachloroethene | 6.3 | U |
| 591-78-6 | 2-Hexanone | 63 | U |
| 124-48-1 | Dibromochloromethane | 6.3 | U |
| 106-93-4 | 1,2-Dibromoethane | 6.3 | U |
| 108-90-7 | Chlorobenzene | 6.3 | U |
| 100-41-4 | Ethylbenzene | 6.3 | U |
| 1330-20-7 | Xylene (Total) | 6.3 | U |
| 100-42-5 | Styrene | 6.3 | U |
| 75-25-2 | Bromoform | 6.2 ~~2.1~~ | D~~J~~BU |
| 98-82-8 | Isopropylbenzene | 6.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 6.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 6.3 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 6.3 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 6.3 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 6.3 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 6.3 | U |

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1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0124DL

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-3 Date Received: 05/23/2002

Lab File ID: E0122-3DA71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 12.5

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0125

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-4 Date Received: 05/23/2002

Lab File ID: E0122-4A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.15 | J |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 9.1 | |
| 75-15-0 | Carbon Disulfide | 0.89 | |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 1.3 | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.15 | J |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 11 | |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.11 | J |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0125

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-4 Date Received: 05/23/2002

Lab File ID: E0122-4A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 200 | E |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ~~0.14~~ | JBU |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.26 | JBU |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.75 | |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.19 | JBU |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1.1 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

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1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0125

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-4 Date Received: 05/23/2002

Lab File ID: E0122-4A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 1

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | LABORATORY ARTIFACT | 13.64 | 0.69 | J |
| 02 | | | | | |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0125DL

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-4 Date Received: 05/23/2002

Lab File ID: E0122-4DA71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 16.7

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 8.4 | U |
| 74-87-3 | Chloromethane | 8.4 | U |
| 75-01-4 | Vinyl Chloride | 8.4 | U |
| 74-83-9 | Bromomethane | 8.4 | U |
| 75-00-3 | Chloroethane | 8.4 | U |
| 75-69-4 | Trichlorofluoromethane | 8.4 | U |
| 75-35-4 | 1,1-Dichloroethene | 8.4 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 8.4 | U |
| 67-64-1 | Acetone | 54 | DJ |
| 75-15-0 | Carbon Disulfide | 8.4 | U |
| 79-20-9 | Methyl Acetate | 8.4 | U |
| 75-09-2 | Methylene Chloride | 8.4 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 8.4 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 8.4 | U |
| 75-34-3 | 1,1-Dichloroethane | 8.4 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 8.4 | U |
| 78-93-3 | 2-Butanone | 84 | U |
| 74-97-5 | Bromochloromethane | 8.4 | U |
| 67-66-3 | Chloroform | 8.4 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | D |
| 110-82-7 | Cyclohexane | 8.4 | U |
| 56-23-5 | Carbon Tetrachloride | 8.4 | U |
| 71-43-2 | Benzene | 8.4 | U |
| 107-06-2 | 1,2-Dichloroethane | 8.4 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0125DL

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-4 Date Received: 05/23/2002

Lab File ID: E0122-4DA71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 16.7

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 260 | D |
| 108-87-2 | Methylcyclohexane | 8.4 | U |
| 78-87-5 | 1,2-Dichloropropane | 8.4 | U |
| 75-27-4 | Bromodichloromethane | 8.4 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | ≤4 ~~1.9~~ | DJBU |
| 108-10-1 | 4-Methyl-2-Pentanone | 84 | U |
| 108-88-3 | Toluene | ≤4 ~~2.6~~ | DJBU |
| 10061-02-6 | trans-1,3-Dichloropropene | 8.4 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 8.4 | U |
| 127-18-4 | Tetrachloroethene | 8.4 | U |
| 591-78-6 | 2-Hexanone | 84 | U |
| 124-48-1 | Dibromochloromethane | 8.4 | U |
| 106-93-4 | 1,2-Dibromoethane | 8.4 | U |
| 108-90-7 | Chlorobenzene | 8.4 | U |
| 100-41-4 | Ethylbenzene | 8.4 | U |
| 1330-20-7 | Xylene (Total) | 8.4 | U |
| 100-42-5 | Styrene | 8.4 | U |
| 75-25-2 | Bromoform | ≤4 ~~2.8~~ | DJBU |
| 98-82-8 | Isopropylbenzene | 8.4 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 8.4 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 8.4 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 2.2 | DJ |
| 95-50-1 | 1,2-Dichlorobenzene | 8.4 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 8.4 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 8.4 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 8.4 | U |

FORM I LCV-2 OLC03.2

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0125DL

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-4 Date Received: 05/23/2002

Lab File ID: E0122-4DA71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 16.7

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0133

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-5 Date Received: 05/28/2002

Lab File ID: E0122-5R71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 1.9 | J |
| 75-15-0 | Carbon Disulfide | 0.19 | J |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0133

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-5 Date Received: 05/28/2002

Lab File ID: E0122-5R71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.58 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 ~~0.22~~ | ~~J~~BU |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 ~~0.20~~ | ~~J~~BU |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.70 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

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1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0133

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-5 Date Received: 05/28/2002

Lab File ID: E0122-5R71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0136

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-6 Date Received: 05/28/2002

Lab File ID: E0122-6A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 2.5 | J |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.26 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.13 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0136

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-6 Date Received: 05/28/2002

Lab File ID: E0122-6A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | C.SC ~~0.12~~ | ~~J~~BU |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | C.SC ~~0.15~~ | ~~J~~BU |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | C.SC ~~0.17~~ | ~~J~~BU |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0136

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: E0122-6 Date Received: 05/28/2002

Lab File ID: E0122-6A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKPN

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17714-1 Date Received: _____

Lab File ID: WG17714-1A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 56-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKPN

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17714-1 Date Received: _____

Lab File ID: WG17714-1A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.12 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.22 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.14 | J |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.10 | J |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKPN

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17714-1 Date Received: _____

Lab File ID: WG17714-1A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLKPK

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17711-6 Date Received: _____

Lab File ID: WG17711-6A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 56-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLKPK

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17711-6 Date Received: _____

Lab File ID: WG17711-6A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.25 | J |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.11 | JB |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.21 | JB |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKPK

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30534 Client No.: SDG No.: E0122

Lab Sample ID: WG17711-6 Date Received: _____

Lab File ID: WG17711-6A71 Date Analyzed: 05/30/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
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FORM I LCV-TIC OLC03.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ECL22 CERCLIS No: IL N000508246

Case No: 30534 Site Name/Location: ELSMERE INDUS. PARK

Contractor or EPA Lab: CompuChem Data User: EPA

No. of Samples: 6 Date Sampled or Date Received: 6-3-02

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: Eva M. Dixon/ESAT Date: 6-3-02

Received by LSSS: Eva M. Dixon/ESAT Date: 6-3-02

Review started: 6/10/02 Reviewer Signature: [illegible]

Total time spent on review: ____ Date review completed: ____

Copied by: Eva M. Dixon/ESAT Date: 6-14-02

Mailed to user by: Eva M. Dixon/ESAT Date: 6-14-02

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

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. Date: ____

G-S
TB
FB
TB-1

DATE: July 1, 2002

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Ellsworth Industrial Park

| CASE NO. | LAB | NO. OF SAMPLES | SDG | MATRIX |
|---|---|---|---|---|
| 30593 | Compuchem | 4 | E0137 | 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: Eva M. Dixon, Sr. Data Specialist
ESAT

RECEIVED
JUL 03 2002
IEPA-BCL-FSRS

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**
**REGION V**

DATE: _____

SUBJECT: Review of Data
Received for Review on June 24, 2002

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
*Superfund Field Services Section*

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: Elsworth Industrial Park (IL)

CASE NUMBER: 30593 SDG NUMBER: E0137

Number and Type of Samples: 4 Waters

Sample Numbers: E0137, E0148, E0151, E0152

Laboratory: Compuchem Hrs. for Review: _____

Following are our findings:

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

Case Number : 30593 SDG Number: E0137
S Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: COMPUCHEM

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

*Four (4) water* samples, numbered *E0137, E0148, E0151* and *E0152,* were collected *June 12 - 14, 2002.* The lab received the samples *June 14 - 15, 2002* in good condition. All samples were analyzed for only the volatile list of organic analytes. All were analyzed according to CLP SOW *OLC03.2* 12/00.

Reviewed By: Allison Harvey/IITRI-ESAT
Date: June 28, 2002

Case Number : 30593 SDG Number: E0137
S : Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: COMPUCHEM

## 1. HOLDING TIME

No defects found.

## 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found.

## 3. CALIBRATION

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

**2-Butanone, 1,2-Dichloroethane, 1,1,2,2-Tetrachloroethane**
E0137, E0151, E0152, VBLKDH

## 4. BLANKS

The following volatile samples are associated with a contaminated storage blank. Hits are qualified "J" and non-detects are not flagged.

**Xylenes (total)**
E0137MS, E0137MSD

The following volatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is less than the concentration criteria. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

**Methylene Chloride**
E0137, E0137MS, E0137MSD, E0148, E0151, E0152, VHBLKBY

**cis-1,3-Dichloropropene**
E0137MS, E0137MSD, E0148, E0151, E0152, VHBLKBY

**Toluene**
E0137, E0148, E0151, E0152, VHBLKBY

**Bromoform**
E0137, E0137MSD, E0148, E0151, E0152, VHBLKBY

Reviewed By: Allison Harvey/IITRI-ESAT
Date: June 28, 2002

Case Number : 30593 SDG Number: E0137
S Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: COMPUCHEM

## 5. DEUTERATED MONITORING COMPOUND RECOVERY

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

**E0148**
Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2,-trifluoroethane, Methyl Acetate, Methylene Chloride, Methyl tert-Butyl Ether, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dichloroethane

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

No defects found.

## 7. FIELD BLANK AND FIELD DUPLICATE

Samples *E0148* and *E0152* are trip blanks. Sample E0148 contained no analytes of interest. Sample E0152 contained Trichlorofluoromethane at 0.22 µg/L.

Sample *E0151* is a field blank. Sample E0151 contained Chloroform at 0.14 µg/L and Benzene at 0.19 µg/L.

Results are not qualified based upon the results of the field blank or field duplicates.

## 8. INTERNAL STANDARDS

No defects found.

## 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

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

**E0137**
1,4-Dichlorobenzene

Reviewed By: Allison Harvey/IITRI-ESAT
Date: June 28, 2002

Case Number : 30593 SDG Number: E0137
S' e Name: ELSWORTH INDUSTRIAL PARK (IL) Laboratory: COMPUCHEM

**E0137MS, E0137MSD**
Xylenes (total), 1,4-Dichlorobenzene

**E0151**
Chloroform, Benzene

**E0152**
Trichlorofluoromethane

**VBLKBD**
Methylene Chloride, cis-1,3-Dichloropropene, Toluene, Chlorobenzene, Bromoform

**VBLKDH**
Methylene Chloride, cis-1,3-Dichloropropene, Toluene, Bromoform

**VBLKDI**
Acetone, Methylene Chloride, cis-1,3-Dichloropropene, Toluene, Bromoform, 1,2,4-Trichlorobenzene

**VHBLKBY**
Xylenes (total)

## 1. SYSTEM PERFORMANCE

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

## 2. ADDITIONAL INFORMATION

Samples E0137 and E0148 arrived at the laboratory with a cooler temperature of 10 °C.

Neither the Chain-of-Custody nor the sample tags indicated that these samples were preserved but they all reported pH values less than 2 when tested at the laboratory; therefore they were qualified as preserved water samples with a primary holding time of 14 days.

Reviewed By: Allison Harvey/IITRI-ESAT
Date: June 28, 2002

# 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 anlayte 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) |

**Analytical Results (Qualified Data)**

Case #: 30593 SDG : E0137
Site : ELSWORTH INDUSTRIAL PARK
Lab. : LIBRTY
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 4

| Sample Number : | E0137 | | E0137MS | | E0137MSD | | E0148 | | E0151 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G5 | | G5 | | G5 | | TB | | FB | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 06/12/2002 | | 06/12/2002 | | 06/12/2002 | | 06/13/2002 | | 06/14/2002 | |
| Time Sampled : | 09:00 | | 09:00 | | 09:00 | | 16:45 | | 09:00 | |
| %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 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Vinyl Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromomethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichlorofluoromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1-Dichloroethene | 0.5 | U | 4 | | 4 | | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Acetone | 6 | | 5 | U | 5 | U | 5 | U | 5 | U |
| Carbon Disulfide | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl Acetate | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methylene Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| tert-Butyl Methyl Ether | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| s-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Butanone | 5 | UJ | 5 | U | 5 | U | 5 | U | 5 | UJ |
| Bromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.1 | J |
| 1,1,1-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Cyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Carbon Tetrachloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Benzene | 0.5 | U | 4 | | 5 | | 0.5 | U | 0.2 | J |
| 1,2-Dichloroethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ |
| Trichloroethene | 0.8 | | 5 | | 5 | | 0.5 | U | 0.5 | U |
| Methylcyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromodichloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 4-Methyl-2-pentanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Toluene | 0.5 | U | 5 | | 5 | | 0.5 | U | 0.5 | U |
| trans-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30593 SDG : E0137
Site : ELSWORTH INDUSTRIAL PARK
Lab. : LIBRTY
Reviewer :
Date :

| Sample Number : | E0137 | | E0137MS | | E0137MSD | | E0148 | | E0151 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G5 | | G5 | | G5 | | TB | | FB | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 06/12/2002 | | 06/12/2002 | | 06/12/2002 | | 06/13/2002 | | 06/14/2002 | |
| Time Sampled : | 09:00 | | 09:00 | | 09:00 | | 16:45 | | 09:00 | |
| %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 |
| Tetrachloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Hexanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Dibromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromoethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chlorobenzene | 0.5 | U | 4 | | 5 | | 0.5 | U | 0.5 | U |
| Ethylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Xylenes (total) | 0.5 | U | 0.1 | J | 0.4 | J | 0.5 | U | 0.5 | U |
| Styrene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromoform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Isopropylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2,2-Tetrachloroethane | 0.5 | UJ | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | UJ |
| 1,3-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 0.2 | J | 0.3 | J | 0.3 | J | 0.5 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Dibromo-3-chloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| ,4-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,3-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30593 SDG : E0137
Site : ELSWORTH INDUSTRIAL PARK
Lab. : LIBRTY
Reviewer :
ate :

| Sample Number : | E0152 | | VBLKBD | | VBLKDH | | VBLKDI | | VHBLKBY | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | TB1 | | | | | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 06/14/2002 | | | | | | | | | |
| Time Sampled : | 09:15 | | | | | | | | | |
| %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 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Vinyl Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromomethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichlorofluoromethane | 0.2 | J | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Acetone | 5 | U | 5 | U | 5 | U | 5 | J | 5 | U |
| Carbon Disulfide | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl Acetate | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methylene Chloride | 0.5 | U | 0.3 | J | 0.3 | J | 0.2 | J | 0.5 | U |
| trans-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| tert-Butyl Methyl Ether | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| s-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Butanone | 5 | UJ | 5 | U | 5 | UJ | 5 | U | 5 | U |
| Bromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,1-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Cyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Carbon Tetrachloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Benzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloroethane | 0.5 | UJ | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U |
| Trichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methylcyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromodichloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,3-Dichloropropene | 0.5 | U | 0.2 | J | 0.1 | J | 0.1 | J | 0.5 | U |
| 4-Methyl-2-pentanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Toluene | 0.5 | U | 0.3 | J | 0.3 | J | 0.4 | J | 0.5 | U |
| trans-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30593 SDG : E0137
Site : ELSWORTH INDUSTRIAL PARK
Lab. : LIBRTY
Reviewer :
ate :

| Sample Number : | E0152 | | VBLKBD | | VBLKDH | | VBLKDI | | VHBLKBY | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | TB1 | | | | | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 06/14/2002 | | | | | | | | | |
| Time Sampled : | 09:15 | | | | | | | | | |
| %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 |
| Tetrachloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Hexanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Dibromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromoethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chlorobenzene | 0.5 | U | 0.1 | J | 0.5 | U | 0.5 | U | 0.5 | U |
| Ethylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Xylenes (total) | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.2 | J |
| Styrene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromoform | 0.5 | U | 0.2 | J | 0.2 | J | 0.3 | J | 0.5 | U |
| Isopropylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2,2-Tetrachloroethane | 0.5 | UJ | 0.5 | U | 0.5 | UJ | 0.5 | U | 0.5 | U |
| 1,3-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2-Dibromo-3-chloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 2,4-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.1 | J | 0.5 | U |
| 1,2,3-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 6-24-02

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ELSWORTH INDUSTRIAL PARK (IL)

CASE NUMBER: 50593 SDG NUMBER: E0137

Number and Type of Samples: 4 (WATER)

Sample Numbers: E0137, E0148, E0151-52

Laboratory: Compuchem Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

| SAMPLENUM | CLIENTID | QUOTENUMREF | LOGINNUM | MATNUM | ACCTNUM | PROJECTNUM | RECEIVEDATE |
|---|---|---|---|---|---|---|---|
| E0137-1 | E0137 | 30593 | E0137 | WA | EPA | 68W01043-1C | 6/14/02 |
| E0137-2 | E0148 | 30593 | E0137 | WA | EPA | 68W01043-1C | 6/14/02 |
| E0137-3 | E0151 | 30593 | E0137 | WA | EPA | 68W01043-1C | 6/15/02 |
| E0137-4 | E0152 | 30593 | E0137 | WA | EPA | 68W01043-1C | 6/15/02 |

CompuChem
a division of Liberty Analytical Corp.

ORIGINAL

**Sample Delivery Group (SDG)**
**Cover Sheet**

SDG Number E0137

| | | | |
|---|---|---|---|
| Laboratory Name | CompuChem | Laboratory Code | LIBRTY |
| Contract No. | 68W01043 | Case No. | 30593 |
| Analysis Price | $540.00 | SDG Turnaround | 7 |

EPA Sample Numbers in SDG (Listed in Numerical Order)

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1) | E0137 | 7) | | 13) | | 19) | |
| 2) | E0148 | 8) | | 14) | | 20) | |
| 3) | E0151 | 9) | | 15) | | 21) | |
| 4) | E0152 | 10) | MS 6/15/02 | 16) | | 22) | |
| 5) | | 11) | | 17) | | 23) | |
| 6) | | 12) | | 18) | | 24) | |

| | |
|---|---|
| E0137 | E0152 |
| First Sample in SDG | Last Sample in SDG |
| 06/14/02 | 06/15/02 |
| First Sample Receipt Date | Last Sample Receipt Date |

**Note**: There are a maximum of 20 **field** samples (excluding PE samples in an SDG. Attach TRs to this form in alphanumeric order (the order listed above on this form).

Signature Melissa Stan Date 6/15/02

# USEPA Contract Laboratory Program
## Organic Traffic Report

Case No: 30593
DAS No:
SDG No: E0137

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20

| | | | |
|---|---|---|---|
| Date Shipped: 6/13/02<br>Carrier Name: UPS<br>Airbill: J136 017 964 7<br>Shipped to: Liberty Analytical<br>501 Madison Avenue<br>Cary NC 27513<br>(919) 379-4080 | Date Received/Received by: 6/14/02 [illegible]<br>Lab Contract No: 68W01043 Unit Price: $540.00<br>Transfer To:<br>Date Received/Received By:<br>Lab Contract No: Price: | Sampler (Signature): James M. Salch | |
| | | Relinquished By: James M. Salch | Date / Time: 6/13/02 17:00 | Received By: |
| | | Relinquished By: | Date / Time: 6.14.02 930 | Received By: Jan Purdie |
| | | Relinquished By: | Date / Time: 6/14/02 | Received By: |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E0137 | Ground Water/ Jim Salch | L/G | VOA (7) | 5-100322, 5-100323, 5-100324, 5-100325, 5-100326 (5) | G5 | 6/12/02 9:00 | | Good |
| E0148 | Ground Water/ Jim Salch | L/G | VOA (7) | 5-10043, 5-10044 (2) | TB | 6/13/02 16:45 | | |

ORIGINAL

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 10°C | Chain of Custody Seal Number: 81444 |
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? Y Shipment Iced? Y |

PR provides [illegible]liminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy [illegible] [illegible]ontract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Resto[illegible] 20191-3436 Phone 703/264-9348 Fax 703/264-9222
TR Number: 5-324306854-061202-0001

# USEPA Contract Laboratory Program
# Organic Traffic Report

| | |
|---|---|
| Case No: | 30593 |
| DAS No: | |
| SDG No: | E0137 |

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| | | | |
|---|---|---|---|
| Date Shipped: 6/14/02<br>Carrier Name: UPS<br>Airbill: J136 017 962 9<br>Shipped to: Liberty Analytical<br>501 Madison Avenue<br>Cary NC 27513<br>(919) 379-4080 | Date Received/Received by: 6/15/02 M.S.L.<br>Lab Contract No: 68W01043 Unit Price: $540.<br>Transfer To:<br>Date Received/Received By:<br>Lab Contract No: Price: | Sampler (Signature): James M. Salch | |
| | | Relinquished By: James M. Salch | Date / Time: 6/14/02 14:00 | Received By: |
| | | Relinquished By: | Date / Time: | Received By: |
| | | Relinquished By: | Date / Time: 6/15/02 1045 | Received By: E. Schiller |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E0151 | Ground Water/ Jim Salch | L/G | VOA (7) | 5-100349, 5-100350, 5-100351, 5-100352, 5-100353 (5) | FB | 6/14/02 9:00 | | Good |
| E0152 | Ground Water/ Jim Salch | L/G | VOA (7) | 5-100354, 5-100355 (2) | TB1 | 6/14/02 9:15 | | SDG Fund Sample |

ORIGINAL

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 6°C | Chain of Custody Seal Number: 117601 |
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? X Shipment Iced? X |

PR provides ...liminary results. Requests for preliminary resuls will increase analytical costs.
Send Copy t... ...ntract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Resto... ...20191-3436 Phone 703/264-9348 Fax 703/264-9222

TR Number: 5-324306854-061402-0001

JUN 2 4 2002


# CompuChem

a division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050


## SDG NARRATIVE
## CASE #30593
## SDG #E0137
## CONTRACT # 68W01043

**SAMPLE IDENTIFICATIONS: E0137 E0148 E0151 E0152**

The four water samples listed above were received, at 6, and 10 degrees C, with proper documentation, in sealed shipping containers on June 14, and 15, 2002. All samples were submitted for volatile only analysis, and were prepared and analyzed following Contract Laboratory Program(CLP) Statement of Work(SOW), document OLC03.2. All pertinent Quality Assurance Notices are included in the narrative section, and all pertinent Laboratory Notices for Case # 30593 SDG # E0137 are included in the sample data sections. All pH values were measured at less than 2.0, and a copy of the pH results are included in the narrative section. Analysis holding times were met for all samples. SMO was contacted with the elevated receipt temperature for the samples received on 06/14/02, and also the label on the bottles for E0148 was listed as E0147, however all other documentation for this sample as time collected and tag number match the TR/COC for E0148. Additional volume was submitted for sample E0137, however this sample was not designated for QC on the TR/COC. SMO directed the lab to use E0137 for QC, and to proceed with the analysis of the samples received at 10 degrees C, and to analyze the bottles labeled E0147 as E0148. A copy of the e-mail accompanies this narrative.

The example calculation with all relavent formulae are found in a sheet immediately following this narrative.

The Target Compound List(TCL) analytes acetone, and trichloroethene were identified above the Contract Required Quantitation Limit(CRQL) in E0137, however none of the other submitted samples contained any TCL analytes above the CRQL.

No reportable Tentatively Identified Compounds(TICs) were present in the submitted samples.

All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG. Overall QC criteria were met for the initial, and continuing calibration standard(s) associated to this SDG
In a response to a Statement of Work(SOW) interpretation, Terry Smith, Program Manager for the Organic Contract Laboratory Program, stated that if the mass spectral interpretation specialist determines the TICs to be laboratory artifacts present in blanks, and their associated samples, there is no need to report them, and all other TICs not reported due to mass spectral interpretation specialist's assessment should be noted in the SDG narrative.
There were four general laboratory artifact not reported on the Form 1 LCFs. Their approximate retention times and origin are as follows:
9.316 to 9.325 minutes cis-1,3-dichloropropene-d4: extra compound in the DMC solution
11.189 to 11.195 minutes laboratory siloxane artifact
12.297 to 12.316 minutes laboratory siloxane artifact
13.634 to 13.638 minutes laboratory siloxane artifact

and in VBLKBD:
3.915 minutes d4-methanol- solvent in which the DMCs are supplied

Duplicate matrix spikes were generated from E0137 as designated by the region, and all QC precision and accuracy criteria were met without exception.

The deuterated monitoring compounds (DMCs) met recovery criteria in the analyses of these samples with minimal allowable failures, and all of the internal standards met retention time and response criteria in the analyses of these samples.

The associated method blanks met all quality control criteria, and did not contain any target analytes above the CRQL . The storage blank met all QC criteria, and also did not contain any TCL analytes above the CRQL.

Manual quantitations were performed on some of the process files in the associated initial and continuing calibrations, and in samples E0137, E0148, and E0151. The reasons have been coded with explanations provided in the notice included in the narrative section of this SDG.
Low level hits of bromoform, and cis -1,3-dichloropropene are reported in the majority of samples and blanks. It is the laboratory's opinion that these his are the result of reaction of the associated DMC solution with methanol(back exchange), and may not be actual sample constituents.

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/her designee, as verified by the following signature.

Roy Sutton
Case Reviewer
June 21, 2002

## SDG #E0137

**Example Calculation for the Volatile Fraction**

**Calculation of RRF**

**RRF=(Ax*Cis)/Ais *Cx)**

**Where:** **Ax=Area of the characteristic ion(EICP) for the compound to be measured**
**Ais= Area of the chracteristic ion(EICP) for the specific internal standard**
**Cis= Concentration of the internal standard**
**Cx=Concentration of the compound to be measured**

**Example: Methylene chloride RRF from CU020618A71(09:30)**

**Ax=31693**
**Ais=92157**
**Cis=125**
**Cx=125**

**RRF=(31693*125)/(92157*125)**
**= 0.3439**

Calculation of Concentration:
Concentration(ug/L)= (Ax*Is*Df)/(Ais*RRF*Vo)
Where: Ax= Area of the characteristic ion(EICP) for the compound to be measured
Ais=Area of the characteristic ion(EICP) for the internal standard
Is=Amount of the internal standard added in nanograms
RRF= The relative response factor from the continuing calibration standard
Vo=Total volume of water purged, in milliliters
Df=Dilution factor

Example: Concentration of methylene chloride in E0152

Ax= 2542
Ais= 92756
Is= 125
RRF= 0.3439
Vo= 25
Df= 1.0

Concentration = (2542*125*1.0)/(92756*0.3439*25)
= 0.398
= 0.40

**CompuChem**
a Division of Liberty Analytical Corp.

GC/MS VOA Batch Sheet - Water

IP 250/460/462/475/480B/483

Method. OLC3

Batch #: _____

6

| SAMPLENUM | CLIENTID | LOGINNUM | pH | Time | Date | INST # | Operator | H/T | Volume | Bottle # | Report | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E0137-1 | E0137 | E0137 | 1 | 1133 | 6-18 | 71 | 2323 | | 2 CAL | 1 | — | |
| E0137-2 | E0148 | E0137 | 1 | 2132 | 6-17 | | | | | 1 | — | |
| E0137-3 | E0151 | E0137 | 1 | 2157 | ↓ | | | | | 1 | S/A | |
| E0137-4 | E0152 | E0137 | 1 | 1109 | 6-18 | | | | | 1 | — | |
| WG18167-1R | VBLKDH | | | 1032 | ↓ | ↓ | 2423 | | ↓ | | — | |
| WG18167-2 | VBLKDI | | | | | | | | | | | |
| WG18167-3 | VBLKDJ | | | | | | | | | | | |
| WG18167-4 | WAIT | | | | | | | | | | | |
| WG18167-5 | WAIT | ~~no QC per Andrew~~ | | | | | | | | | | |
| WG18167-6 | WAIT | | | | | | | | | | | |
| E0137-3R | | | 1 | 1157 | 6-18 | 71 | 2423 | | 2 CAL | 2 | — | |

NDN Colfid

HT 1-5 6/24/02
4 6/25/02

Due 6/21/02

'/01 rmh

**CompuChem**
a Division of Liberty Analytical Corp

GC/MS VOA Batch Sheet - Water

IP 250/460/462/475/480B/483

Method

Batch #: _____

| SAMPLENUM | CLIENTID | LOGINNUM | pH | Time | Date | INST # | Operator | H/T | Volume | Bottle # | Report | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E0137-1 | E0137 | E0137 | | | | | | | | | | |
| E0137-2 | E0148 | E0137 | | | | | | | | | | |
| E0137-3 | E0151 | E0137 | | | | | | | | | | |
| E0137-4 | E0152 | E0137 | | | | | | | | | | |
| WG18167-1 | VBLKDH | | | | | | | | | | | |
| WG18167-2 | VBLKDI | | | 926 | 6-21 | 71 | 2423 | | 25ml | | — | |
| WG18167-3 | VBLKDJ | | | | | | | | | | | |
| WG18167-4 | E0137MS | | | 1008 | 6-21 | 71 | 2423 | | 25ml | 2 | — | |
| WG18167-5 | E0137MSD | | | 1032 | ↓ | ↓ | ↓ | | ↓ | 2/5 | — | |
| WG18167-6 | VHBLKDH | | | | | | | | | | | |

7/01 rmh

# COMPUCHEM

## Work Group Report (wk02)

*15-JUN-02 11:28 AM*

**Work Group:** WG18167

**Department:** 435 MS/VOA ANALYSIS **Created:** 15-JUN-02

| Sample | Client ID | Product | Matrix | RecvDate | Bottle# | Lab Information |
|---|---|---|---|---|---|---|
| E0137-1 | E0137 | VOA-OLC03.2 | Water | 14-JUN-02 | | |
| E0137-2 | E0148 | VOA-OLC03.2 | Water | 14-JUN-02 | | |
| E0137-3 | E0151 | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| E0137-4 | E0152 | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-1 | VBLKDH | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-2 | VBLKDI | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-3 | VBLKDJ | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-4 | WAIT | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-5 | WAIT | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-6 | WAIT | VOA-OLC03.2 | Water | 15-JUN-02 | | |

**Comments:**

| | |
|---|---|
| E0137-1 | OLC03.2 |
| E0137-2 | OLC03.2/*TB |
| E0137-3 | OLC03.2/*RB |
| E0137-4 | OLC03.2/*TB |

**Internal Chain of Custody**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Relinquished By | Ref #4 | Date | 6-17-2 | Received By | Ron H | Date | 6-17-2 | Reason | Analysis |
| Relinquished By | Ron H | Date | 6-17-2 | Received By | Ref #4 | Date | 6-17-2 | Reason | Temp Storage |
| Relinquished By | Ref #4 | Date | 6-18 | Received By | M Z | Date | 6-18 | Reason | Analysis |
| Relinquished By | M Z | Date | 6-18 | Received By | Ref #4 | Date | 6-18 | Reason | storage |
| Relinquished By | | Date | | Received By | | Date | | Reason | |
| Relinquished By | | Date | | Received By | | Date | | Reason | |
| Relinquished By | | Date | | Received By | | Date | | Reason | |
| Relinquished By | | Date | | Received By | | Date | | Reason | |

# COMPUCHEM

## Work Group Report (wk02)

*21-JUN-02 10:09 AM*

**Work Group:** WG18167

**Department:** 435 MS/VOA ANALYSIS **Created:** 15-JUN-02

| Sample | Client ID | Product | Matrix | RecvDate | Bottle# | Lab Information |
|---|---|---|---|---|---|---|
| E0137-1 | E0137 | VOA-OLC03.2 | Water | 14-JUN-02 | | |
| E0137-2 | E0148 | VOA-OLC03.2 | Water | 14-JUN-02 | | |
| E0137-3 | E0151 | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| E0137-4 | E0152 | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-1 | VBLKDH | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-2 | VBLKDI | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-3 | VBLKDJ | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-4 | WAIT | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-5 | WAIT | VOA-OLC03.2 | Water | 15-JUN-02 | | |
| WG18167-6 | WAIT | VOA-OLC03.2 | Water | 15-JUN-02 | | |

**Comments:**

| | |
|---|---|
| E0137-1 | OLC03.2-USE FOR QC |
| E0137-2 | OLC03.2/*TB |
| E0137-3 | OLC03.2/*RB |
| E0137-4 | OLC03.2/*TB |

**Internal Chain of Custody**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Relinquished By | Ref #4 | Date | 6-21 | Received By | MZ | Date | 6-21 | Reason Analysis |
| Relinquished By | MZ | Date | 6-21 | Received By | Ref #21 | Date | 6-21 | Reason Storage |
| Relinquished By | | Date | | Received By | | Date | | Reason |
| Relinquished By | | Date | | Received By | | Date | | Reason |
| Relinquished By | | Date | | Received By | | Date | | Reason |
| Relinquished By | | Date | | Received By | | Date | | Reason |
| Relinquished By | | Date | | Received By | | Date | | Reason |
| Relinquished By | | Date | | Received By | | Date | | Reason |

## Alice Evans

**From:** Brown, Jessica <Jessica.Brown@dyncorp.com>
**To:** Alice Evans (E-mail) <aevans@compuchemlabs.com>
**Cc:** Mark Wagner (E-mail 2) <EPA4415@epa.state.il.us>; Cheryl Simpson (E -mail) <simpson.cheryl@epa.gov>; Howard Pham (E-mail) <pham.howard@epa.gov>
**Sent:** Monday, June 17, 2002 9:53 AM
**Attach:** 30593.pdf
**Subject:** Region 05 | Case 30593 | Lab LIBRTY | SDG E0137 | Issue Documentation | FINAL

Hi Alice,

Per Region 5, please proceed with analyzing sample E0137 as laboratory QC for Case 30593, SDG E0137. The lab should also proceed with analyzing sample E0148 as E0148 (not E0147, as listed on the bottle). Please note both issues in the SDG Narrative and let me know if you have any problems or questions.

Thank you,
Jessica

9:32AM 6/17/02
Jessica Brown, SMO, spoke with Howard Pham, USEPA Region 5 RSCC, concerning Case 30593. LIBRTY may proceed with the resolutions provided by Mark Wagner, IL-EPA. The issues should be noted in the SDG Narrative.

-----Original Message-----
**From:** Brown, Jessica
**Sent:** Friday, June 14, 2002 2:30 PM
**To:** Cheryl Simpson (E-mail)
**Subject:** Region 05 | Case 30593 | Lab LIBRTY | SDG E0137 | Issue Documentation

Hi Cheryl,

Per Mark Wagner, IL-EPA, LIBRTY should proceed with analyzing sample E0137 as laboratory QC for Case 30593, SDG E0137. The lab should also proceed with analyzing sample E0148 as E0148 (not E0147 as listed on the bottle).

Please advise.

Thanks,
Jessica

2:06PM 6/14/02
Jessica Brown, SMO, spoke with Mark Wagner, IL-EPA, concerning Case 30593. Mark said that LIBRTY may proceed with using sample E0137 as the QC sample. The lab should proceed with the sample ID that was listed on the TR/COC for sample E0148.

-----Original Message-----
**From:** Alice Evans [mailto:aevans@compuchemlabs.com]
**Sent:** Friday, June 14, 2002 1:42 PM
**To:** Brown, Jessica
**Cc:** Melissa Stevens
**Subject:** CASE 30593 SDG E0137

Jessica,

Liberty received 2 water samples for Voa analysis on 06/14/02.

Sample E0137 - received 5 - 40 ml vials but it was not designated as QC for MS/MSD on the Traffic Report.

Sample E0148 - The label on the bottles listed the ID as
E0147, the other information such as tag no, time collected,etc
matched the Traffic Report for E0148.

See attached file for copy of bottles.

Alice

Alice Evans
CompuChem/Liberty
501 Madison Ave
Cary, NC 27513
919-379-4080

## Alice Evans

**From:** Brown, Jessica <Jessica.Brown@dyncorp.com>
**To:** Alice Evans (E-mail) <aevans@compuchemlabs.com>
**Cc:** Howard Pham (E-mail) <pham.howard@epa.gov>; Mark Wagner (E-mail 2) <EPA4415@epa.state.il.us>
**Sent:** Wednesday, June 19, 2002 9:14 AM
**Subject:** Region 05 | Case 30593 | Lab LIBRTY | SDG E0137 | Issue Preservative | FINAL

Hi Alice,

Per Region 5, please note the temperature issue in the SDG Narrative and proceed with the analysis of the samples received under Case 30593.

Thank you,
Jessica Brown

-----Original Message-----
From: Pham.Howard@epamail.epa.gov [mailto:Pham.Howard@epamail.epa.gov]
Sent: Tuesday, June 18, 2002 5:38 PM
To: Brown, Jessica
Subject: Re: Region 05 | Case 30593 | Lab LIBRTY | SDG E0137 | Issue Preservat ive

HI Jessica,

Please ask the lab proceed the analyses and made a note in the case narrative.

Thanks,
Howard Pham

-----Original Message-----
From: Brown, Jessica
Sent: Tuesday, June 18, 2002 4:44 PM
To: Howard Pham (E-mail); Mark Wagner (E-mail 2)
Subject: Region 05 | Case 30593 | Lab LIBRTY | SDG E0137 | Issue Preservative

Per LIBRTY, the samples in the cooler received on 6/14/02 were at 10 degrees C. Please advise on how the lab should proceed with these samples.

Thanks,
Jessica

-----Original Message-----
From: Alice Evans [mailto:aevans@compuchemlabs.com]
Sent: Tuesday, June 18, 2002 4:18 PM
To: Brown, Jessica
Subject: Re: Region 05 | Case 30593 | Lab LIBRTY | SDG E0137 | Issue Documentation | FINAL

Jessica,

Thanks. Please add the fact that the samples in the cooler were
at 10 degrees.

Thanks,
Alice

Alice Evans
CompuChem/Liberty
501 Madison Ave
Cary, NC 27513
919-379-4080

----- Original Message -----
**From:** Brown, Jessica
**To:** Alice Evans (E-mail)
**Cc:** Mark Wagner (E-mail 2) ; Cheryl Simpson (E-mail) ; Howard Pham (E-mail)
**Sent:** Monday, June 17, 2002 9:53 AM
**Subject:** Region 05 | Case 30593 | Lab LIBRTY | SDG E0137 | Issue Documentation | FINAL

Hi Alice,

Per Region 5, please proceed with analyzing sample E0137 as laboratory QC for Case 30593, SDG E0137. The lab should also proceed with analyzing sample E0148 as E0148 (not E0147, as listed on the bottle). Please note both issues in the SDG Narrative and let me know if you have any problems or questions.

Thank you,
Jessica

9:32AM 6/17/02
Jessica Brown, SMO, spoke with Howard Pham, USEPA Region 5 RSCC, concerning Case 30593. LIBRTY may proceed with the resolutions provided by Mark Wagner, IL-EPA. The issues should be noted in the SDG Narrative.

-----Original Message-----
**From:** Brown, Jessica
**Sent:** Friday, June 14, 2002 2:30 PM
**To:** Cheryl Simpson (E-mail)
**Subject:** Region 05 | Case 30593 | Lab LIBRTY | SDG E0137 | Issue Documentation

Hi Cheryl,

Per Mark Wagner, IL-EPA, LIBRTY should proceed with analyzing sample E0137 as laboratory QC for Case 30593, SDG E0137. The lab should also proceed with analyzing sample E0148 as E0148 (not E0147 as listed on the bottle).

Please advise.

Thanks,
Jessica

2:06PM 6/14/02
Jessica Brown, SMO, spoke with Mark Wagner, IL-EPA, concerning Case 30593. Mark said that LIBRTY may proceed with using sample E0137 as the QC sample. The lab should proceed with the sample ID that was listed on the TR/COC for sample E0148.

-----Original Message-----
**From:** Alice Evans [mailto:aevans@compuchemlabs.com]
**Sent:** Friday, June 14, 2002 1:42 PM
**To:** Brown, Jessica
**Cc:** Melissa Stevens
**Subject:** CASE 30593 SDG E0137

Jessica,

Liberty received 2 water samples for Voa analysis on 06/14/02.

Sample E0137 - received 5 - 40 ml vials but it was not designated as QC for MS/MSD on the Traffic Report.

Sample E0148 - The label on the bottles listed the ID as
E0147, the other information such as tag no, time collected,etc
matched the Traffic Report for E0148.

See attached file for copy of bottles.

Alice

Alice Evans
CompuChem/Liberty
501 Madison Ave
Cary, NC 27513
919-379-4080

2LCA

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

b Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

| | EPA SAMPLE NO. | VDMC1 (VCL) # | VDMC2 (CLA) # | VDMC3 (DCE) # | VDMC4 (BUT) # | VDMC5 (CLF) # | VDMC6 (DCA) # | VDMC7 (BEN) # |
|---|---|---|---|---|---|---|---|---|
| 01 | VBLKBD | 104 | 92 | 70 | 70 | 92 | 100 | 104 |
| 02 | E0148 | 96 | 98 | 74 | 106 | 116 | 132* | 106 |
| 03 | VBLKDH | 82 | 82 | 66 | 74 | 88 | 88 | 98 |
| 04 | E0152 | 78 | 84 | 68 | 84 | 98 | 104 | 102 |
| 05 | E0137 | 82 | 82 | 70 | 100 | 100 | 110 | 102 |
| 06 | E0151 | 86 | 86 | 72 | 74 | 92 | 92 | 104 |
| 07 | VBLKDI | 106 | 106 | 84 | 134 | 98 | 102 | 120 |
| 08 | E0137MS | 98 | 108 | 98 | 92 | 94 | 90 | 106 |
| 09 | E0137MSD | 100 | 102 | 98 | 100 | 96 | 100 | 108 |
| 10 | VHBLKBY | 108 | 110 | 86 | 96 | 106 | 108 | 108 |
| 11 | | | | | | | | |
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| 30 | | | | | | | | |

| | | | QC LIMITS |
|---|---|---|---|
| VDMC1 | (VCL) | = Vinyl Chloride-d3 | (49-138) |
| VDMC2 | (CLA) | = Chloroethane-d5 | (60-126) |
| VDMC3 | (DCE) | = 1,1-Dichloroethene-d2 | (65-130) |
| VDMC4 | (BUT) | = 2-Butanone-d5 | (42-171) |
| VDMC5 | (CLF) | = Chloroform-d | (80-123) |
| VDMC6 | (DCA) | = 1,2-dichloroethane-d4 | (78-129) |
| VDMC7 | (BEN) | = Benzene-d6 | (78-121) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits

2LCB

LOW CONCENTRATION WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: 68W01043

b Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

| | EPA SAMPLE NO. | VDMC8 (DPA) # | VDMC9 (TOL) # | VDMC10 (TDP) # | VDMC11 (HEX) # | VDMC12 (BRF) # | VDMC13 (TCA) # | VDMC14 (DCZ) # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|
| 01 | VBLKBD | 104 | 106 | 100 | 58 | 102 | 102 | 108 | 0 |
| 02 | E0148 | 116 | 110 | 112 | 72 | 116 | 128 | 126 | 1 |
| 03 | VBLKDH | 98 | 94 | 84 | 48 | 88 | 96 | 94 | 0 |
| 04 | E0152 | 104 | 102 | 98 | 66 | 96 | 112 | 108 | 0 |
| 05 | E0137 | 112 | 102 | 100 | 72 | 102 | 110 | 106 | 0 |
| 06 | E0151 | 98 | 98 | 90 | 48 | 84 | 98 | 102 | 0 |
| 07 | VBLKDI | 114 | 114 | 110 | 78 | 100 | 102 | 114 | 0 |
| 08 | E0137MS | 100 | 102 | 92 | 68 | 98 | 86 | 100 | 0 |
| 09 | E0137MSD | 108 | 106 | 98 | 78 | 100 | 94 | 110 | 0 |
| 10 | VHBLKBY | 110 | 108 | 96 | 60 | 106 | 94 | 112 | 0 |
| 11 | | | | | | | | | |
| 12 | | | | | | | | | |
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| | | | QC LIMITS |
|---|---|---|---|
| VDMC8 | (DPA) | = 1,2-Dichloropropane-d6 | (84-123) |
| VDMC9 | (TOL) | = Toluene-d8 | (77-120) |
| VDMC10 | (TDP) | = trans-1,3-Dichloropropene-d4 | (80-128) |
| VDMC11 | (HEX) | = 2-Hexanone-d5 | (37-169) |
| VDMC12 | (BRF) | = Bromoform-d | (76-135) |
| VDMC13 | (TCA) | = 1,1,2,2-Tetrachloroethane-d2 | (75-131) |
| VDMC14 | (DCZ) | = 1,2-Dichlorobenzene-d4 | (50-150) |

# Column to be used to flag recovery values

* Values outside of contract required QC limits

3LCA
LOW CONCENTRATION WATER VOLATILE
MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

b Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Matrix Spike - EPA Sample No.: E0137

| COMPOUND | SPIKE ADDED (UG/L) | SAMPLE CONCENTRATION (UG/L) | MS CONCENTRATION (UG/L) | MS % REC # | QC. LIMITS REC. |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 0.0 | 4.0 | 80 | 61-145 |
| Benzene | 5.0 | 0.0 | 4.4 | 88 | 76-127 |
| Trichloroethene | 5.0 | 0.75 | 4.9 | 83 | 71-120 |
| Toluene | 5.0 | 0.34 | 4.6 | 85 | 76-125 |
| Chlorobenzene | 5.0 | 0.0 | 4.4 | 88 | 75-130 |

| COMPOUND | SPIKE ADDED (UG/L) | MSD CONCENTRATION (UG/L) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 4.1 | 82 | 2 | 14 | 61-145 |
| Benzene | 5.0 | 4.7 | 94 | 7 | 11 | 76-127 |
| Trichloroethene | 5.0 | 5.0 | 85 | 2 | 14 | 71-120 |
| Toluene | 5.0 | 4.9 | 91 | 7 | 13 | 76-125 |
| Chlorobenzene | 5.0 | 4.7 | 94 | 7 | 13 | 75-130 |

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

* Values outside of QC limits

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

COMMENTS: _____

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BlANK SUMMARY

EPA SAMPLE NO.

VBLKBD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18135-1 Date Analyzed: 06/17/2002

Lab File ID: WG18135-1A71 Time Analyzed: 1403

Instrument ID: 5972HP71

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E0148 | E0137-2 | E0137-2A71 | 2132 |
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COMMENTS:



FORM IV LCV OLC03.2

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BlANK SUMMARY

EPA SAMPLE NO.

VBLKDH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-1 Date Analyzed: 06/18/2002

Lab File ID: WG18167-1RA71 Time Analyzed: 1032

Instrument ID: 5972HP71

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E0152 | E0137-4 | E0137-4A71 | 1109 |
| 02 | E0137 | E0137-1 | E0137-1A71 | 1133 |
| 03 | E0151 | E0137-3 | E0137-3RA71 | 1157 |
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COMMENTS:



FORM IV LCV OLC03.2

4LCA
LOW CONCENTRATION WATER
VOLATILE METHOD BlANK SUMMARY

EPA SAMPLE NO.

VBLKDI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-2 Date Analyzed: 06/21/2002

Lab File ID: WG18167-2A71 Time Analyzed: 0926

Instrument ID: 5972HP71

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E0137MS | WG18167-4 | WG18167-4A71 | 1008 |
| 02 | E0137MSD | WG18167-5 | WG18167-5A71 | 1032 |
| 03 | VHBLKBY | WG18162-6 | WG18162-6A71 | 1258 |
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COMMENTS:



FORM IV LCV OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0137

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-1 Date Received: 06/14/2002

Lab File ID: E0137-1A71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 6.0 | |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 ~~0.19~~ | JB |
| 56-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

6-28-02

FORM I LCV-1 OLC03.2

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0137

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-1 Date Received: 06/14/2002

Lab File ID: E0137-1A71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.75 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | c 50 ~~0.34~~ | JBU |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | c 50 ~~0.18~~ | JBU |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.22 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0137

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-1 Date Received: 06/14/2002

Lab File ID: E0137-1A71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0137MS

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-4 Date Received: 06/14/2002

Lab File ID: WG18167-4A71 Date Analyzed: 06/21/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.0 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 ~~0.23~~ | JB U |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 4.4 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0137MS

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-4 Date Received: 06/14/2002

Lab File ID: WG18167-4A71 Date Analyzed: 06/21/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 4.9 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 ~~0.15~~ | JB U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 4.6 | B |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 4.4 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.14 | J |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.27 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0137MSD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-5 Date Received: 06/14/2002

Lab File ID: WG18167-5A71 Date Analyzed: 06/21/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.1 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 ~~0.28~~ | JBM |
| 56-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 4.7 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

10-51 1 MDA

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0137MSD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-5 Date Received: 06/14/2002

Lab File ID: WG18167-5A71 Date Analyzed: 06/21/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.0 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 ~~0.12~~ | JB U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 4.9 | B |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 4.7 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.44 | J |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 ~~0.20~~ | JB U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.29 | J |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

FORM I LCV-2 OLC03.2

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1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0148

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-2 Date Received: 06/14/2002

Lab File ID: E0137-2A71 Date Analyzed: 06/17/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 ~~0.26~~ | JBU |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

FORM I LCV-1 OLC03.2

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0148

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-2 Date Received: 06/14/2002

Lab File ID: E0137-2A71 Date Analyzed: 06/17/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 ~~0.17~~ | JB |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 ~~0.27~~ | JB |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 ~~0.23~~ | JB |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0148

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-2 Date Received: 06/14/2002

Lab File ID: E0137-2A71 Date Analyzed: 06/17/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0151

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-3 Date Received: 06/15/2002

Lab File ID: E0137-3RA71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 ~~0.26~~ | JB u |
| 56-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 34-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.14 | J |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.19 | J |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

QCH 6-28-02

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0151

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-3 Date Received: 06/15/2002

Lab File ID: E0137-3RA71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 ~~0.13~~ | JBμ |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 ~~0.28~~ | JBμ |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 ~~0.24~~ | JBμ |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0151

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-3 Date Received: 06/15/2002

Lab File ID: E0137-3RA71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0152

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-4 Date Received: 06/15/2002

Lab File ID: E0137-4A71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.22 | J |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 ~~0.40~~ | JB U |
| 56-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

6-28-02

FORM I LCV-1 OLC03.2

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

E0152

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-4 Date Received: 06/15/2002

Lab File ID: E0137-4A71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 ~~0.11~~ | JB U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 ~~0.42~~ | JB U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 ~~0.24~~ | JB U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0152

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: E0137-4 Date Received: 06/15/2002

Lab File ID: E0137-4A71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKBD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18135-1 Date Received: _____

Lab File ID: WG18135-1A71 Date Analyzed: 06/17/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.25 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKBD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18135-1 Date Received: _____

Lab File ID: WG18135-1A71 Date Analyzed: 06/17/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.15 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.26 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.11 | J |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.22 | J |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKBD

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18135-1 Date Received: _____

Lab File ID: WG18135-1A71 Date Analyzed: 06/17/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKDH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-1 Date Received: _____

Lab File ID: WG18167-1RA71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.27 | J |
| 56-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKDH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-1 Date Received: _____

Lab File ID: WG18167-1RA71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.12 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.29 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.20 | J |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKDH

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-1 Date Received: _____

Lab File ID: WG18167-1RA71 Date Analyzed: 06/18/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKDI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-2 Date Received: _____

Lab File ID: WG18167-2A71 Date Analyzed: 06/21/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 4.5 | J |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.23 | J |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VBLKDI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-2 Date Received: _____

Lab File ID: WG18167-2A71 Date Analyzed: 06/21/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.12 | J |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.40 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 06-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.27 | J |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.13 | J |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKDI

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18167-2 Date Received: _____

Lab File ID: WG18167-2A71 Date Analyzed: 06/21/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
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FORM I LCV-TIC OLC03.2

1LCA
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLKBY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18162-6 Date Received: _____

Lab File ID: WG18162-6A71 Date Analyzed: 06/21/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 ~~0.23~~ | JB |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

6-28-02

FORM I LCV-1 OLC03.2

1LCB
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET

EPA SAMPLE NO.

VHBLKBY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18162-6 Date Received: _____

Lab File ID: WG18162-6A71 Date Analyzed: 06/21/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 ~~0.14~~ | JB |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 ~~0.38~~ | JB |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (Total) | 0.19 | J |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 ~~0.15~~ | JB |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF
LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS
DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLKBY

Lab Name: COMPUCHEM Contract: 68W01043

Lab Code: LIBRTY Case No.: 30593 Client No.: SDG No.: E0137

Lab Sample ID: WG18162-6 Date Received: _____

Lab File ID: WG18162-6A71 Date Analyzed: 06/21/2002

Purge Volume: 25.0(ML) Dilution Factor: 1.0

GC Column: SPB-624 ID: 0.32(MM) Length: 60.0(M)

Number TICs found: 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
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FORM I LCV-TIC OLC03.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0137 CERCLIS No: ILN000508246

Case No: 30593 Site Name/Location: ELSWORTH INDUS. PARK

Contractor or EPA Lab: ConnecHem Data User: IEPA

No. of Samples: 4 Date Sampled or Date Received: 6-24-02

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: 4 No. of samples received: 4

Received by: Eva M Dixon/ESAI Date: 6-24-02

Received by LSSS: Eva M. Dixon/ESAI Date: 6-24-02

Review started: 6-28-02 Reviewer Signature: Allison Harvey

Total time spent on review: 8 hrs Date review completed: 7-1-02

Copied by: Eva M Dixon/ESAI Date: 7-1-02

Mailed to user by: Eva M. Dixon/ESAI Date: 7-1-02

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

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. Date: ____

DATE: August 5, 2002

G-13
FB
G-1
G-1D
TB

IEPA
1021 North Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Attn: Bob Casper

SITE NAME: Ellsworth Industrial Park

| CASE NO. | LAB | NO. OF SAMPLES | SDG | MATRIX |
|---|---|---|---|---|
| 30616 | DataChem | 5 | E0154 | 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:_____

RECEIVED
AUG 0 8 2002
IEPA-BCL-FSRS

FROM: U.S. EPA
Region V
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Eva M. Dixon, Sr. Data Specialist
ESAT

AUG 05 2002



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: _____

SUBJECT: Review of Data
Received for Review on July 30, 2002

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

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ELLSWORTH INDUSTRIAL PARK

CASE NUMBER: 30616 SDG NUMBER: E0154

Number and Type of Samples: 5 (water)

Sample Numbers: E0154, E0161-4 (VOA)

Laboratory: DATACHEM Hrs. for Review: 5

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

**Case Number : 30616** **SDG Number: E0154**
**Site Name: ELLSWORTH INDUSTRIAL PARK (IL)** **Laboratory: DATACHEM**

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

Five (5) water samples, numbered E0154, E0161 through E0164, were collected on June 19, 20 and 21, 2002. The lab received the samples on June 22, 2002 in good condition. All samples were analyzed for the volatile list of organic analytes only. All were analyzed according to CLP SOW OLC03.2 5/99.

Samples E0162 and E0163 are field duplicates. Sample E0161 is a field blank. Sample E0164 is a trip blank.

Reviewed By: T. Sedlacek IITRI/ESAT
Date: July 31, 2002

**Case Number : 30616** **SDG Number: E0154**
**Site Name: ELLSWORTH INDUSTRIAL PARK (IL)** **Laboratory: DATACHEM**

**1. HOLDING TIME**

No defects found.

**2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE**

No defects found.

**3. CALIBRATION**

The following volatile 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 "R".

**Methyl Acetate**
E0154, E0154MS, E0154MSD, E0161, E0162, E0163, E0164, VBLK01, VHBLK01

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", unless otherwise qualified elsewhere.

**Methyl Acetate**
E0154, E0154MS, E0154MSD, E0161, E0162, E0163, E0164, VBLK01, VHBLK01

The following volatile samples are associated with a continuing calibration relative response factor (RRF5) outside primary criteria. Hits are flagged "J" and non-detects are qualified "R".

**Methyl Acetate**
E0154, E0154MS, E0154MSD, E0161, E0162, E0163, E0164, VBLK01, VHBLK01

**4. BLANKS**

The following volatile samples were analyzed after a highly contaminated sample and have no preceding instrument blank. All contaminated sample results were within the calibration range, no action is needed

**1,1-Dichloroethene, Benzene, Toluene, Chlorobenzene**
E0154MSD

Reviewed By: T. Sedlacek IITRI/ESAT
Date: July 31, 2002

Case Number : 30616 SDG Number: E0154
Site Name: ELLSWORTH INDUSTRIAL PARK (IL) Laboratory: DATACHEM

**Trichloroethene**
E0154, E0154MS, E0154MSD, E0161, E0163, E0164

**5. DEUTERATED SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY**

No defects found.

**6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

No defects found.

**7. FIELD BLANK AND FIELD DUPLICATE**

Sample E0161 was a field blank. Sample E0162 is a field duplicate of Sample E0163. Sample E0164 is a trip blank. Results are not qualified based upon the results of the field blank or field duplicates.

| Analyte | E0162 | E0163 | E0161 |
|---|---|---|---|
| cis-1,2-Dichloroethene | 3.5 | 3.4 | |
| Trichloroethene | 11 | 8.5 | |
| Tetrachloroethene | 0.92 | 0.65 | |
| Toluene | | 0.32 J | 0.31 J |

**8. INTERNAL STANDARDS**

No defects found.

**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**

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

Reviewed By: T. Sedlacek IITRI/ESAT
Date: July 31, 2002

**Case Number : 30616** **SDG Number: E0154**
**Site Name: ELLSWORTH INDUSTRIAL PARK (IL)** **Laboratory: DATACHEM**

**E0154, E0161, E0163**
Toluene

**11. SYSTEM PERFORMANCE**

GC/MS baseline indicated acceptable performance.

**12. ADDITIONAL INFORMATION**

The lab reported receiving sample E0162 at a pH of 5.

Reviewed By: T. Sedlacek IITRI/ESAT
Date: July 31, 2002

# 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. |

TICS

Low Concentration Volatile Sample Analysis

Tentatively Identified Compounds

| | | | |
|---|---|---|---|
| | | Sample No.: | E0154 |
| ample Type: | Spike Original | | |
| ab ID: | DATAC | Location: | G13 |
| Case No.: | 30616 | Matrix/Level: | Water/ |
| SDG No.: | E0154 | File Name: | E0154 |

| CAS No. | Compound Name | RT | Concentration (UG/L) | Q* |
|---|---|---|---|---|
| 115071 | PROPENE | 3.03 | 0.81 | JN |

*Q: Laboratory Qualifier

**Analytical Results (Qualified Data)**

Case # 30616 SDG : E0154

Site : ELSWORTH INDUSTRIAL PARK

Lab. : DATAC

Number of Soil Samples : 0

Number of Water Samples : 5

Reviewer :

Date :

| Sample Number : | E0154 | | E0154MS | | E0154MSD | | E0161 | | E0162 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G13 | | G13 | | G13 | | FB | | G1 | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 06/19/2002 | | 06/19/2002 | | 06/19/2002 | | 06/21/2002 | | 06/20/2002 | |
| Time Sampled : | 13:15 | | 13:15 | | 13:15 | | 09:00 | | 19:30 | |
| %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 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Vinyl Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromomethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichlorofluoromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1-Dichloroethene | 0.5 | U | 6 | | 6 | | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Acetone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Carbon Disulfide | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Methyl Acetate | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R |
| Methylene Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| trans-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| tert-Butyl Methyl Ether | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 4 | |
| 2-Butanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Bromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chloroform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,1-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Cyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Carbon Tetrachloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Benzene | 0.5 | U | 6 | | 6 | | 0.5 | U | 0.5 | U |
| 1,2-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Trichloroethene | 0.5 | U | 6 | | 6 | | 0.5 | U | 11 | |
| Methylcyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromodichloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| cis-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 4-Methyl-2-pentanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Toluene | 0.3 | J | 6 | | 6 | | 0.3 | J | 0.5 | U |
| trans-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30616 SDG : E0154
Site : ELSWORTH INDUSTRIAL PARK
Lab. : DATAC
Reviewer :
Date :

| Sample Number : | E0154 | | E0154MS | | E0154MSD | | E0161 | | E0162 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G13 | | G13 | | G13 | | FB | | G1 | |
| Matrix : | Water | | Water | | Water | | Water | | Water | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | ug/L | |
| Date Sampled : | 06/19/2002 | | 06/19/2002 | | 06/19/2002 | | 06/21/2002 | | 06/20/2002 | |
| Time Sampled : | 13:15 | | 13:15 | | 13:15 | | 09:00 | | 19:30 | |
| %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 |
| Tetrachloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.9 | |
| 2-Hexanone | 5 | U | 5 | U | 5 | U | 5 | U | 5 | U |
| Dibromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dibromoethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Chlorobenzene | 0.5 | U | 5 | | 5 | | 0.5 | U | 0.5 | U |
| Ethylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Xylenes (total) | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Styrene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Bromoform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| Isopropylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,1,2,2-Tetrachloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,3-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,4-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| ,2-Dibromo-3-chloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,4-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |
| 1,2,3-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U |

**Analytical Results (Qualified Data)**

Case #: 30616 SDG : E0154
Site : ELSWORTH INDUSTRIAL PARK
Lab. : DATAC
eviewer :
ate :

| Sample Number : | E0163 | | E0164 | | VBLK01 | | VHBLK01 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G1D | | TB | | | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | | |
| Date Sampled : | 06/20/2002 | | 06/21/2002 | | | | | | | |
| Time Sampled : | 19:30 | | 09:00 | | | | | | | |
| %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 | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Chloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Vinyl Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Bromomethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Chloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Trichlorofluoromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,1-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Acetone | 5 | U | 5 | U | 5 | U | 5 | U | | |
| Carbon Disulfide | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Methyl Acetate | 0.5 | R | 0.5 | R | 0.5 | R | 0.5 | R | | |
| Methylene Chloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| trans-1,2-Dichloroethene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| tert-Butyl Methyl Ether | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| is-1,2-Dichloroethene | 3 | | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 2-Butanone | 5 | U | 5 | U | 5 | U | 5 | U | | |
| Bromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Chloroform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,1,1-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Cyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Carbon Tetrachloride | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Benzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2-Dichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Trichloroethene | 9 | | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Methylcyclohexane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2-Dichloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Bromodichloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| cis-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 4-Methyl-2-pentanone | 5 | U | 5 | U | 5 | U | 5 | U | | |
| Toluene | 0.3 | J | 0.5 | U | 0.5 | U | 0.5 | U | | |
| trans-1,3-Dichloropropene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,1,2-Trichloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |

**Analytical Results (Qualified Data)**

Case #: 30616 SDG : E0154
Site : ELSWORTH INDUSTRIAL PARK
Lab. : DATAC
Reviewer :
Date :

| Sample Number : | E0163 | | E0164 | | VBLK01 | | VHBLK01 | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | G1D | | TB | | | | | | | |
| Matrix : | Water | | Water | | Water | | Water | | | |
| Units : | ug/L | | ug/L | | ug/L | | ug/L | | | |
| Date Sampled : | 06/20/2002 | | 06/21/2002 | | | | | | | |
| Time Sampled : | 19:30 | | 09:00 | | | | | | | |
| %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 |
| Tetrachloroethene | 0.7 | | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 2-Hexanone | 5 | U | 5 | U | 5 | U | 5 | U | | |
| Dibromochloromethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2-Dibromoethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Chlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Ethylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Xylenes (total) | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Styrene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Bromoform | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| Isopropylbenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,1,2,2-Tetrachloroethane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,3-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,4-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2-Dichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 2-Dibromo-3-chloropropane | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 2,4-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |
| 1,2,3-Trichlorobenzene | 0.5 | U | 0.5 | U | 0.5 | U | 0.5 | U | | |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 7-30-02

FROM: Stephen L. Ostrodka, Chief (SMF-4J)
Superfund Field Services Section

TO: Data User: IEPA

We have reviewed the data for the following case:

SITE NAME: ELLSWORTH INDUSTRIAL PARK (IL)

CASE NUMBER: 30616 SDG NUMBER: E0154

Number and Type of Samples: 5 (WATER)

Sample Numbers: E0154, E0161-4

Laboratory: DATACHEM Hrs for Review:

Following are our findings:

CC: Cecilia Moore
Region 5 TPO
Mail Code: SMF-4J

# EPA Contract Laboratory Program
## Organic Traffic Report

Case No: 30616
DAS No:
SDG No: E0154

| | | | |
|---|---|---|---|
| Date Shipped: 6/21/02 | Date Received/Received by: 6/22/01 J. Pate | Sampler (Signature): [signature] | |
| Carrier Name: UPS | Lab Contract No: 60-W-01-04 Unit Price: 640.00 | Relinquished By: [signature] | Date / Time: 6/21/02 12:00 | Received By: UPS |
| Airbill: 1Z 621 589 22 1002 152 9 | | Relinquished By: UPS | Date / Time: 6/22/02 0930 | Received By: [signature] 6-24-02 |
| Shipped to: Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700 | Transfer To: | Relinquished By: | Date / Time: | Received By: |
| | Date Received/Received By: | | | |
| | Lab Contract No: Price: | | | |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E0161 | Ground Water/ Jim Salch | L/G | VOA (7) | 5-37728, 5-37729, 5-37730, 5-37731, 5-37732 (5) | FB | 6/21/02 9:00 | | |
| E0162 | Ground Water/ Jim Salch | L/G | VOA (7) | 5-37733, 5-37734, 5-37735, 5-37736, 5-37737 (5) | G1 | 6/20/02 19:30 | | |
| E0163 | Ground Water/ Jim Salch | L/G | VOA (7) | 5-37738, 5-37739, 5-37740, 5-37741, 5-37742 (5) | G1D | 6/20/02 19:30 | | |
| E0164 | Ground Water/ Jim Salch | L/G | VOA (7) | 5-37743, 5-37744 (2) | TB | 6/21/02 9:00 | | |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 602-0498 2°C | Chain of Custody Seal Number: 11895 |
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? Y / Shipment Iced: Y |

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

# USEPA Contract Laboratory Program
# Organic Traffic Report

Case No: 30616
DAS No:
SDG No: E0154

| | | | |
|---|---|---|---|
| Date Shipped: 6/19/02 | Date Received/Received by: 6/20/02 J. Pate | Sampler (Signature): James M. Salch | |
| Carrier Name: UPS | Lab Contract No: 68-W-01-095 Unit Price: 640.00 | Relinquished By: James M. Salch | Date / Time: 6/19/02 17:30 / Received By: UPS |
| Airbill: 1z 621 589 22 1002 146 7 | Transfer To: | Relinquished By: UPS | Date / Time: 6/20/02 0930 / Received By: [illegible] 8-21-2 |
| Shipped to: Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700 | Date Received/Received By: | Relinquished By: | Date / Time: / Received By: |
| | Lab Contract No: Price: | | |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E0154 | Ground Water/ Jim Salch | L/G | VOA (21) | 5-037701, 5-37702, 5-37703, 5-37704, 5-37705, 5-37706, 5-37707, 5-37708, 5-37709, 5-37710, 5-37711, 5-37712, 5-37713, 5-37714, 5-37715 (15) | G13 | 6/19/02 13:15 | | |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: E0154 | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: C02-0485 4°C | Chain of Custody Seal Number: 97399 |
| Analysis Key: VOA = CLP TCL Volatiles | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? Y / Shipment Iced? Y |

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Contract Laboratory Analytical Services Support, 2000 Edmund Halley Dr., Reston, VA. 20191-3436 Phone 703/264-9348 Fax 703/264-9222

DATA CHEM
LABORATORIES
A SORENSON COMPANY

# SDG Narrative
## Volatiles

**Contract:** 68W01045
**Case:** 30616
**SDG:** E0154
**Sample No:**

| EPA Sample ID | DCL Sample ID | pH | Dilution |
|---|---|---|---|
| E0154 | 02C01403 | < 2 | |
| E0154MS | 02C01403MS | < 2 | |
| E0154MSD | 02C01403MSD | < 2 | |
| E0161 | 02C01459 | < 2 | |
| E0162 | 02C01460 | 5 | |
| E0163 | 02C01461 | < 2 | |
| E0164 | 02C01462 | < 2 | |

**General SDG Information:** Samples were analyzed according to USEPA CLP Statement of Work OLC03.2. No deviations from the SOW occurred except as noted below. All samples listed above are billable.

Instrumentation: Hewlett Packard 5972-P GC/MSD with electron impact ionization and quadrupole detector scanning at a mass range of 35 to 300 amu. Column: J&W Scientific DB624 - 75meters, 0.53 mm id., 3 um film
Temperature Program: *10°C (2.0 min) 8°/min ramp to 180° (0.1 min) 60°/min ramp to 220° *Cryogenically cooled with liquid nitrogen
Carrier Gas: Helium
Purge and Trap Device: Tekmar Dynamic Headspace Concentrator ALS 2016/LSC 2000
Purge Gas: Helium
Purge Flow: 35 mL/min
Trap: Vocarb 3000 Trap Temp: 35°C

**Sample Preparation:** This method has no extraction procedure for the water matrix. Twenty-five milliliters of water sample was spiked with 5 uL of Internal Standard/DMC Solution and purged.

**Instrument Calibration:** The GC/MS was hardware tuned to meet the criteria for a 50 ng purging of 4-Bromofluorobenzene as specified in the SOW. This tune check is valid for 12 hours.

**Initial and Continuing Calibration Verification:** The five point initial calibration curve, which was analyzed prior to sample analysis, met the specified criteria in the SOW. A continuing calibration standard (CAL) which is used for the quantitation of each target compound was also analyzed prior to sample analysis. The CAL met the method criteria as specified in the SOW. Analytes that required manual integrations are listed.

| Sample | Initial Scan | Final Scan | Analyte |
|---|---|---|---|
| VSTD0.5W | 1796 | 1820 | 1,4-Dichlorobenzene |
| VSTD001W | 1796 | 1820 | 1,4-Dichlorobenzene |
| VSTD025W | 1303 | 1338 | Dibromochloromethane |

**Blank Analysis:** One method blank was prepared using 25 mL of spiked reagent water. The blank was analyzed prior to sample analysis and was free of volatile organic contaminants within the specifications of the SOW. A hold blank was analyzed after all sample analyses were completed and was free of volatile organic contaminants within the specifications of the SOW.

**Sample Analysis:** All deuterated monitoring compounds and internal standard area responses were within the required acceptance criteria. All samples were analyzed within ten days of verified sample receipt.

**MS/MSD Analysis:** Matrix spike (MS) and matrix spike duplicate (MSD) analyses for the water samples were performed using sample E0154 (02C01403). The matrix spike compounds are 1,1-dichloroethene, benzene, trichloroethene, toluene and chlorobenzene, and are spiked in at a concentrations of 5 ug/L. All percent recoveries and RPD's were within QC limit.

**Miscellaneous Comments:** Recoveries of target analytes are reported on the CLP Forms in units of ug/L.

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.

June 27, 2002

Joseph Gress
Chemist
Volatile Organic Analysis Section

# 2LCA
## LOW CONCENTRATION WATER VOLATILE
## DEUTERATED MONITORING COMPOUND RECOVERY

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

| | EPA SAMPLE NO. | VDMC1 (VAL) # | VDMC2 (CLA) # | VDMC3 (DCE) # | VDMC4 (BUT) # | VDMC5 (CLF) # | VDMC6 (DCA) # | VDMC7 (BEN) # |
|---|---|---|---|---|---|---|---|---|
| 1 | E0154 | 104 | 98 | 78 | 86 | 102 | 100 | 106 |
| 2 | E0161 | 108 | 104 | 82 | 84 | 104 | 102 | 104 |
| 3 | E0162 | 100 | 96 | 76 | 134 | 102 | 102 | 106 |
| 4 | E0163 | 98 | 98 | 76 | 96 | 104 | 104 | 104 |
| 5 | E0164 | 112 | 106 | 84 | 80 | 106 | 100 | 108 |
| 6 | VHBLK01 | 102 | 98 | 78 | 86 | 102 | 98 | 108 |
| 7 | E0154MS | 108 | 104 | 108 | 74 | 102 | 98 | 106 |
| 8 | E0154MSD | 114 | 112 | 112 | 68 | 102 | 92 | 106 |
| 9 | VBLK01 | 100 | 98 | 76 | 130 | 98 | 96 | 100 |

| | QC LIMITS |
|---|---|
| **VDMC1 (VCL) = Vinyl Chloride-d3** | **(49-138)** |
| **VDMC2 (CLA) = Chloroethane-d5** | **(60-126)** |
| **VDMC3 (DCE) = 1,1-Dichloroethene-d2** | **(65-130)** |
| **VDMC4 (BUT) = 2-Butanone-d5** | **(42-171)** |
| **VDMC5 (CLF) = Chloroform-d** | **(80-123)** |
| **VDMC6 (DCA) = 1,2-Dichloroethane-d4** | **(78-129)** |
| **VDMC7 (BEN) = Benzene-d6** | **(78-121)** |

**# Column to be used to flag recovery values.**
*** Values outside of contract required QC limits.**

005

# 2LCB
## LOW CONCENTRATION WATER VOLATILE
## DEUTERATED MONITORING COMPOUND RECOVERY

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

| | EPA SAMPLE NO. | VDMC8 (DPA) # | VDMC9 (TOL) # | VDMC10 (TDP) # | VDMC11 (HEX) # | VDMC12 (BRF) # | VDMC13 (TCA) # | VDMC14 (DCZ) # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|
| 1 | E0154 | 98 | 104 | 98 | 82 | 88 | 98 | 106 | 0 |
| 2 | E0161 | 96 | 102 | 96 | 74 | 84 | 104 | 104 | 0 |
| 3 | E0162 | 98 | 104 | 102 | 122 | 94 | 100 | 104 | 0 |
| 4 | E0163 | 100 | 102 | 100 | 88 | 94 | 102 | 102 | 0 |
| 5 | E0164 | 98 | 102 | 92 | 76 | 86 | 96 | 102 | 0 |
| 6 | VHBLK01 | 100 | 106 | 100 | 72 | 88 | 98 | 104 | 0 |
| 7 | E0154MS | 96 | 102 | 94 | 72 | 82 | 96 | 104 | 0 |
| 8 | E0154MSD | 94 | 102 | 88 | 66 | 76 | 92 | 102 | 0 |
| 9 | VBLK01 | 92 | 100 | 98 | 114 | 88 | 90 | 98 | 0 |

| | QC LIMITS |
|---|---|
| VDMC8 (DCA) = 1,2-Dichloropropane-d6 | (84-123) |
| VDMC9 (TOL) = Toluene-d8 | (77-120) |
| VDMC10 (TDP) = trans-1,3-Dichloroprope | (80-128) |
| VDMC11 (HEX) = 2-Hexanone-d5 | (37-169) |
| VDMC12 (BRF) = Bromoform-d | (76-135) |
| VDMC13 (TCA) = 1,1,2,2-Tetrachloroethan | (75-131) |
| VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4 | (50-150) |

# Column to be used to flag recovery values.
* Values outside of contract required QC limits.

# 3LCA
# LOW CONCENTRATION WATER VOLATILE
# MATRIX SPIKE /
# MATRIX SPIKE-DUPLICATE RECOVERY

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **SAS No.:** _____ **SDG No.:** E0154

**Matrix Spike - EPA Sample No.:** E0154

| COMPOUND | SPIKE ADDED (UG/L) | SAMPLE CONC UG/L) | MS CONC (UG/L) | MS % REC # | QC LIMITS REC |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 0 | 5.5 | 110 | 61-145 |
| Benzene | 5.0 | 0 | 5.6 | 112 | 76-127 |
| Trichloroethene | 5.0 | 0 | 5.7 | 114 | 71-120 |
| Toluene | 5.0 | 0.25 | 5.8 | 111 | 76-125 |
| Chlorobenzene | 5.0 | 0 | 5.3 | 106 | 75-130 |

| COMPOUND | SPIKE ADDED (UG/L) | MSD CONC (UG/L) | MSD % REC # | RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 5.0 | 5.5 | 110 | 0 | 14 | 61-145 |
| Benzene | 5.0 | 5.5 | 110 | 2 | 11 | 76-127 |
| Trichloroethene | 5.0 | 5.6 | 112 | 2 | 14 | 71-120 |
| Toluene | 5.0 | 5.5 | 105 | 6 | 13 | 76-125 |
| Chlorobenzene | 5.0 | 5.3 | 106 | 0 | 13 | 75-130 |

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

* Values outside of QC limits.

**RPD:** 0 **out of** 5 **outside limits**

**Spike Recovery:** 0 **out of** 10 **outside limits**

**Comments:**

# 4LCA
# LOW CONCENTRATION WATER
# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

**Lab Sample ID:** BL-196867-1 **Date Analyzed:** 06/25/2002

**Lab File ID:** PT76BLK **Time Analyzed:** 18:42

**Instrument ID:** 5972-P

**GC Column:** CAP **ID:** 0.53 **(MM)** **Length:** 75 **(M)**

**THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLE ANALYSES:**

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 1 | E0154 | 02C01403 | PT79C403 | 20:28 |
| 2 | E0161 | 02C01459 | PT80C459 | 21:02 |
| 3 | E0162 | 02C01460 | PT77C460 | 19:21 |
| 4 | E0163 | 02C01461 | PT78C461 | 19:54 |
| 5 | E0164 | 02C01462 | PT81C462 | 21:35 |
| 6 | VHBLK01 | BL-196867-2 | PT85HBLK | 23:16 |
| 7 | E0154MS | 02C01403MS | PT82S403 | 22:09 |
| 8 | E0154MSD | 02C01403MSD | PT84D403 | 22:43 |

**Comments:**

008

# 1LCA
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0154

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** 02C01403 **Date Received:** 06/20/2002

**Lab File ID:** PT79C403 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 150-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

# 1LCB
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0154

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** 02C01403 **Date Received:** 06/20/2002

**Lab File ID:** PT79C403 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.25 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

# 1LCF
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0154

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

**Lab Sample ID:** 02C01403 **Date Received:** 06/20/2002

**Lab File ID:** PT79C403 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

**Number TICs found:** 1

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|
| 1 | 115071 | Propene | 3.03 | 0.81 | JN |

# 1LCB
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0154MS

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 30616 Client No.: SDG No.: E0154

Lab Sample ID: 02C01403MS Date Received: 06/20/2002

Lab File ID: PT82S403 Date Analyzed: 06/25/2002

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: CAP ID: 0.53 (MM) Length: 75 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.7 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 5.8 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 5.3 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

# 1LCA
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0154MS

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** 02C01403MS **Date Received:** 06/20/2002

**Lab File ID:** PT82S403 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.5 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 150-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 5.6 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

# 1LCA
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0154MSD

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** 02C01403MSD **Date Received:** 06/20/2002

**Lab File ID:** PT84D403 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.5 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 150-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 5.5 | |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

# 1LCB
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0154MSD

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 30616 Client No.: SDG No.: E0154

Lab Sample ID: 02C01403MSD Date Received: 06/20/2002

Lab File ID: PT84D403 Date Analyzed: 06/25/2002

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: CAP ID: 0.53 (MM) Length: 75 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.6 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 5.5 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 5.3 | |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

# 1LCA
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0161

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 30616 Client No.: Client No.: SDG No.: E0154

Lab Sample ID: 02C01459 Date Received: 06/22/2002

Lab File ID: PT80C459 Date Analyzed: 06/25/2002

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: CAP ID: 0.53 (MM) Length: 75 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 150-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

# 1LCB
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0161

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 30616 Client No.: SDG No.: E0154

Lab Sample ID: 02C01459 Date Received: 06/22/2002

Lab File ID: PT80C459 Date Analyzed: 06/25/2002

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: CAP ID: 0.53 (MM) Length: 75 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.31 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0161

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

**Lab Sample ID:** 02C01459 **Date Received:** 06/22/2002

**Lab File ID:** PT80C459 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

**Number TICs found:** 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|

022

# 1LCA
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0162

Lab Name: DATACHEM LABS Contract: 68W01045

Lab Code: DATAC Case No.: 30616 Client No.: SDG No.: E0154

Lab Sample ID: 02C01460 Date Received: 06/22/2002

Lab File ID: PT77C460 Date Analyzed: 06/25/2002

Purge Volume: 25.0 (ML) Dilution Factor: 1

GC Column: CAP ID: 0.53 (MM) Length: 75 (M)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 150-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 3.5 | |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

# 1LCB
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0162

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** 02C01460 **Date Received:** 06/22/2002

**Lab File ID:** PT77C460 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 11 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.92 | |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0162

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

**Lab Sample ID:** 02C01460 **Date Received:** 06/22/2002

**Lab File ID:** PT77C460 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

**Number TICs found:** 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|

029

1LCA

# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0163

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** 02C01461 **Date Received:** 06/22/2002

**Lab File ID:** PT78C461 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 150-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 3.4 | |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

# 1LCB
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0163

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** 02C01461 **Date Received:** 06/22/2002

**Lab File ID:** PT78C461 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 8.5 | |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.32 | J |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.65 | |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0163

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

**Lab Sample ID:** 02C01461 **Date Received:** 06/22/2002

**Lab File ID:** PT78C461 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

**Number TICs found:** 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|

# 1LCA
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0164

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** 02C01462 **Date Received:** 06/22/2002

**Lab File ID:** PT81C462 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 150-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

# 1LCB
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0164

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** 02C01462 **Date Received:** 06/22/2002

**Lab File ID:** PT81C462 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0164

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

**Lab Sample ID:** 02C01462 **Date Received:** 06/22/2002

**Lab File ID:** PT81C462 **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

**Number TICs found:** 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|

015

# 1LCA
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

**Lab Sample ID:** BL-196867-1 **Date Received:** _____

**Lab File ID:** PT76BLK **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 150-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

# 1LCB
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** BL-196867-1 **Date Received:**

**Lab File ID:** PT76BLK **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK01

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

**Lab Sample ID:** BL-196867-1 **Date Received:** _____

**Lab File ID:** PT76BLK **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

**Number TICs found:** 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|

032

# 1LCA
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

**Lab Sample ID:** BL-196867-2 **Date Received:** _____

**Lab File ID:** PT85HBLK **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 0.50 | U |
| 74-87-3 | Chloromethane | 0.50 | U |
| 75-01-4 | Vinyl Chloride | 0.50 | U |
| 74-83-9 | Bromomethane | 0.50 | U |
| 75-00-3 | Chloroethane | 0.50 | U |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U |
| 75-35-4 | 1,1-Dichloroethene | 0.50 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.50 | U |
| 67-64-1 | Acetone | 5.0 | U |
| 75-15-0 | Carbon Disulfide | 0.50 | U |
| 79-20-9 | Methyl Acetate | 0.50 | U |
| 75-09-2 | Methylene Chloride | 0.50 | U |
| 150-60-5 | trans-1,2-Dichloroethene | 0.50 | U |
| 1634-04-4 | Methyl tert-Butyl Ether | 0.50 | U |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | U |
| 78-93-3 | 2-Butanone | 5.0 | U |
| 74-97-5 | Bromochloromethane | 0.50 | U |
| 67-66-3 | Chloroform | 0.50 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U |
| 110-82-7 | Cyclohexane | 0.50 | U |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U |
| 71-43-2 | Benzene | 0.50 | U |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U |

# 1LCB
# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** **SDG No.:** E0154

**Lab Sample ID:** BL-196867-2 **Date Received:**

**Lab File ID:** PT85HBLK **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (UG/L) | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.50 | U |
| 108-87-2 | Methylcyclohexane | 0.50 | U |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U |
| 75-27-4 | Bromodichloromethane | 0.50 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 5.0 | U |
| 108-88-3 | Toluene | 0.50 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.50 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U |
| 127-18-4 | Tetrachloroethene | 0.50 | U |
| 591-78-6 | 2-Hexanone | 5.0 | U |
| 124-48-1 | Dibromochloromethane | 0.50 | U |
| 106-93-4 | 1,2-Dibromoethane | 0.50 | U |
| 108-90-7 | Chlorobenzene | 0.50 | U |
| 100-41-4 | Ethylbenzene | 0.50 | U |
| 1330-20-7 | Xylene (total) | 0.50 | U |
| 100-42-5 | Styrene | 0.50 | U |
| 75-25-2 | Bromoform | 0.50 | U |
| 98-82-8 | Isopropylbenzene | 0.50 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 0.50 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.50 | U |

1LCF

# LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

**Lab Name:** DATACHEM LABS **Contract:** 68W01045

**Lab Code:** DATAC **Case No.:** 30616 **Client No.:** _____ **SDG No.:** E0154

**Lab Sample ID:** BL-196867-2 **Date Received:** _____

**Lab File ID:** PT85HBLK **Date Analyzed:** 06/25/2002

**Purge Volume:** 25.0 (ML) **Dilution Factor:** 1

**GC Column:** CAP **ID:** 0.53 **(MM) Length:** 75 **(M)**

**Number TICs found:** 0

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (UG/L) | Q |
|---|---|---|---|---|---|

088

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E0154 CERCLIS No: ILN000508246

Case No: 30616 Site Name/Location: ELLSWORTH INDUS. PARK

Contractor or EPA Lab: DATACHEM Data User: IEPA

No. of Samples: 5 Date Sampled or Date Received: 7-30-01

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: Ena M. Dixon/ESAI Date: 7-30-02

Received by LSSS: Ena M. Dixon/ESAI Date: 7-30-02

Review started: 7/31/02 Reviewer Signature: [signature]

Total time spent on review: ____ Date review completed: 1 Aug 02

Copied by: ____ Date: ____

Mailed to user by: ____ Date: ____

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

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. Date: ____