US EPA RECORDS CENTER REGION 5
542783

TECHLAW, INC.
ESAT REGION V
INTERNAL PEER REVIEW FORM

ENVIRONMENTAL SERVICE ASSISTANCE TEAMS

Current Date: December 20 2012 Due Date: 12-7-12

Task Order (TO) No.: R5-4-416 TO Description: Organic Data Review

TDF No.: 5-416-084 TECHLAW Job No.: 03037.5.16.03.05.BSVY.000.084

Case/SAS: 43075 SDG: E2SG2

Task Order Project Officer (TOPO): Alida Roberman

Audit Schedule - Minimum of 1 Auditor

| Reviewer | Date Reviewer Completed | Reviewer's Initial | Hours Spent |
|---|---|---|---|
| Deborah Connor | Full Review | DRC | 8 |
| Auditor | Date Audit Completed | Auditor's Initials | Hours Spent |
| Allison Harvey | Dec 20, 2012 | ACH | 0.9 |
| | | | |
| Team Manager Approval | Dec 20, 2012 | ACH | 0.2 |

EXES Sample Summary Included (√ one) YES ✓ NO ____

EXES Superset Included (√ one) YES ✓ NO ____

Comments ( Please initial): ____

| Environmental Protection Agency<br>Office of Emergency and Remedial Response<br>**TECHNICAL DIRECTION FORM (TDF)** | **Contract No. EP-W-06-031**<br>**Contractor: TECHLAW, INC**<br>**Task Order No. 05-4-416**<br>**TDF No. 5-416-084**<br>**03037.5.16.03.05.B5VY.000.084** |
|---|---|

| Task Order Project Officer | Alida Roberman | Phone | 312-886-7185 |
|---|---|---|---|

Superfund Site: New Webb Well Field (IN)
Superfund Site ID #: B5VY LA00

Start Date: 11/28/12 Completion Date: 12/07/2012
Cost Estimate 25 hours

**TASK DESCRIPTION:** Perform organic DAT/MANUAL review level 3 for the case:

| **Case#:** | **SDG#** | **# of Samples** |
|---|---|---|
| **43075** | **E2SG1** | **14 water samples for trace volatiles analyses** |
| **43075** | **E2SG2** | **10 soil samples for trace volatiles analyses** |

**Perform this work under Task Area 2 of the Contract SOW and Task 3 of the Task Order. This is DAT/MANUAL Review.**

DELIVERABLE: Case Summary package as specified in the work assignment on page 2. This report is due to the data user by 12/07/12

PO APPROVAL: *Steven Peterson* Date: 11/28/2012

I certify that this Technical Directive does not request services that are inherently governmental functions and that it does not alter the (1) statement of work, (2) level of effort, (3) cost of performing the authorized work, (4) number of deliverables, or (5) the due dates of deliverables for the above referenced Task Order.

**TOPO Signature: Alida Roberman** Date:11/28/2012

# Edit History Report

Case No· 43075 Contract· EPW11031 SDG No E2SG2 Lab Code KAP

Method· VOA_Low_Med

| Sample | Matrix | Analyte Name | Data Field | Old Value | New Value | User | Edit Date Time | Global |
|---|---|---|---|---|---|---|---|---|
| E2SG2 | Soil | Cyclohexane, 1,2-dimethyl-, trans- | Reportable | Y | N | Deborah Connet | 12/19/12 9:04 AM | |
| E2SG2 | Soil | Cyclohexane, 1,3-dimethyl-, cis- | Reportable | Y | N | Deborah Connet | 12/19/12 9.04 AM | |
| E2SG2 | Soil | Heptane, 3,5-dimethyl- | Reportable | Y | N | Deborah Connet | 12/19/12 9·04 AM | |
| E2SG2 | Soil | Hexane, 2,3,4-trimethyl- | Reportable | Y | N | Deborah Connet | 12/19/12 9.04 AM | |
| E2SG2 | Soil | Methylene chloride | Validated Result | 4.9 | 9.8 | Deborah Connet | 12/19/12 9 04 AM | |
| E2SG3 | Soil | Methylene chloride | Validated Result | 4.4 | 8 8 | Deborah Connet | 12/19/12 9.05 AM | |
| E2SG4 | Soil | Benzene | Validation Flag | U | UJ | Deborah Connet | 12/19/12 9.06 AM | |
| E2SG4 | Soil | Methylene chloride | Validated Result | 5.3 | 11 | Deborah Connet | 12/19/12 9.06 AM | |
| E2SG4 | Soil | Trichloroethene | Validation Flag | U | UJ | Deborah Connet | 12/19/12 9:06 AM | |
| E2SG4MS | Soil | Methylene chloride | Validated Result | 5.5 | 11 | Deborah Connet | 12/19/12 9:07 AM | |
| E2SG4MS | Soil | Trichloroethene | Validation Flag | J | | Deborah Connet | 12/19/12 9 07 AM | |
| E2SG4MSD | Soil | Methylene chloride | Validated Result | 5.4 | 11 | Deborah Connet | 12/19/12 9 08 AM | |
| E2SH1 | Soil | Methylene chloride | Validated Result | 6 8 | 14 | Deborah Connet | 12/19/12 9 09 AM | |
| E2SH3 | Soil | Methylene chloride | Validated Result | 4.6 | 9 2 | Deborah Connet | 12/19/12 9.09 AM | |
| E2SH5 | Soil | Methylene chloride | Validated Result | 4.6 | 9.2 | Deborah Connet | 12/19/12 9 10 AM | |
| E2SH7 | Soil | Methylene chloride | Validated Result | 3.5 | 7.0 | Deborah Connet | 12/19/12 9.10 AM | |
| E2SJ1 | Soil | Methylene chloride | Validated Result | 8.8 | 18 | Deborah Connet | 12/19/12 9.11 AM | |
| E2SJ3 | Soil | Methylene chloride | Validated Result | 8.7 | 17 | Deborah Connet | 12/19/12 9:11 AM | |
| E2SJ5 | Soil | Methylene chloride | Validated Result | 4.1 | 8.2 | Deborah Connet | 12/19/12 9:12 AM | |
| VHBLK01 | Soil | Methylene chloride | Validated Result | 5.0 | 10 | Deborah Connet | 12/19/12 9.12 AM | |
| VHBLK01 | Soil | Methylene chloride | Validation Flag | | U | Deborah Connet | 12/19/12 9.12 AM | |

Controlled Document

# ESAT5.416.00161
ack
12-20-12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: 26 November 2012

FROM: Timothy Prendiville, Supervisor (**SR-6J**)
Superfund Contract Management Section

TO: Data User: IDEM
mjworsk@idem.IN.gov

Level 3 Data Validation for EDM EXES Reports

We have reviewed the data for the following case:

SITE Name: Webb Well Field (IN)

Case Number: 43075 SDG Number: E2SG2

Number and Type of Samples: 10 Soils (volatiles)

Sample Numbers: E2SG2-E2SG4, E2SH1, E2SH3, E2SH5, E2SH7, E2SJ1, E2SJ3, E2SJ5

Laboratory: KAP Technologies Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SA-5J**

Case Number: 43075
Site Name: Webb Well Field (IN)

SDG Number: E2SG2
Laboratory: KAP Technologies

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

Ten (10) soil samples labeled E2SG2-E2SG4, E2SH1, E2SH3, E2SH5, E2SH7, E2SJ1, E2SJ3, and E2SJ5, were shipped to KAP Technologies located in The Woodlands, TX. All samples were collected between 10/30/12 and 11/1/12 and received between 10/31/12 and 11/2/12 intact and properly cooled.

All samples were analyzed for the volatile list of compounds. All samples were analyzed according to CLP SOW SOM01.2 (6/2007) and reviewed according to the NFG for SOM01.2 and the SOP for ESAT 5/TechLaw Validation of Contract Laboratory Program Organic Data (Version 2.6.2).

Sample E2SG4 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

No samples were identified as field blanks or field duplicates.

Case Number: 43075
Site Name: Webb Well Field (IN)

SDG Number: E2SG2
Laboratory: KAP Technologies

## 1. HOLDING TIME

No Problems Found.

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

No Problems Found.

## 3. CALIBRATION

The following volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. The compound was not detected in the samples. Non-detected compounds are not qualified.

E2SG2, E2SG3, E2SG4, E2SG4MS, E2SG4MSD, E2SH1, E2SH3, E2SH5, E2SH7, E2SJ1, E2SJ3, E2SJ5, VBLKFF, VBLKFH, VHBLK01
m,p-Xylene

The following volatile samples are associated with an opening continuing calibration percent difference (%D) outside criteria. The compound was not detected in the samples. Non-detected compounds are qualified "UJ".

E2SJ1, E2SJ3, E2SJ5, VBLKFH, VHBLK01
1,2,3-Trichlorobenzene

The following volatile samples are associated with an opening continuing calibration in which a surrogate/DMC exceeded percent difference (%D) criteria. Detected and non-detected compounds are not qualified.

E2SG2, E2SG3, E2SG4, E2SG4MS, E2SG4MSD, E2SH1, E2SH3, E2SH5, E2SH7, E2SJ1, E2SJ3, E2SJ5, VBLKFF, VBLKFH, VHBLK01
Vinyl chloride-d3

## 4. BLANKS

The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank has common contaminant analyte concentration less than 2x the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to 2x the CRQL.

Methylene chloride
E2SG2, E2SG3, E2SG4, E2SG4MS, E2SG4MSD, E2SH1, E2SH3, E2SH5, E2SH7, E2SJ1, E2SJ3, E2SJ5, VHBLK01

Case Number: 43075
Site Name: Webb Well Field (IN)

SDG Number: E2SG2
Laboratory: KAP Technologies

The following volatile samples have TIC concentrations reported less than 5X the method blank concentration. Detected compounds are qualified "U" and deleted from the TIC report.

Unknown @ 9.56
E2SG2, E2SG3, E2SG4, E2SH1, E2SH3, E2SH5, E2SH7, E2SJ1, E2SJ3, E2SJ5, VHBLK01

## 5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than or equal to the expanded lower limit (20%) of the criteria window. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E2SG2, E2SG4MS
Vinyl chloride, Benzene

## 6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E2SG4 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

The following volatile matrix spike/matrix spike duplicate samples have percent recovery greater than or equal to the expanded lower acceptance limit but less than the primary lower acceptance limit. The compounds were not detected in the samples. Non-detected compounds in the unspiked sample (E2SG4) are qualified "UJ".

E2SG4MS
Benzene, Trichloroethene

## 6B. LABORATORY CONTROL SAMPLE

Not applicable to volatile analyses.

## 7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as field blanks or field duplicates.

## 8. INTERNAL STANDARDS

No Problems Found.

## 9. COMPOUND IDENTIFICATION

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

Case Number: 43075
Site Name: Webb Well Field (IN)

SDG Number: E2SG2
Laboratory: KAP Technologies

## 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

During the data validation process, it has come to the attention of several reviewers that the data generated by the laboratory appears to have an error in the formula used to correct positive results in VOA soils and TIC compounds for sample size and percent moisture. The reported CRQLs are correct when using the formula as stated in the SOW SOM01.2. When the same formula is used to calculate the final results for detected compounds and TIC compounds, the calculated results are one-half what is reported on the FORM Is or final result tables in EXES. This error is also duplicated with the blank results. It is the opinion of the reviewers that somewhere in the data reduction process at the laboratory an erroneous formula or data input is occurring.

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

E2SH3, E3SJ5
Trichloroethene

E3SJ3
trans-1,2-Dichloroethene

VBLKFF, VBLKFH
Methylene chloride

A library search indicates a match below 85% for a TIC compound in the volatile sample. Detected compounds are qualified "J".

| | | | |
|---|---|---|---|
| Unknown @ 4.80; | Unknown @ 6.00; | Unknown @ 6.15; | Unknown @ 6.63; |
| Unknown @ 7.84; | Unknown @ 7.93; | Unknown @ 8.16; | Unknown @ 8.74; |
| Unknown @ 9.63; | Unknown @ 10.49; | Unknown @ 11.06; | Unknown @ 11.78; |
| Unknown @ 14.05; | Unknown @ 14.22; | Unknown @ 18.96; | Unknown @ 19.94 |

E2SG2

Unknown @ 9.56
VBLKFF, VBLKFH

A library search indicates a match at or above 85% for a TIC compound in the volatile sample. Detected compounds are qualified "NJ".

CAS No. 95-93-2 Benzene, 1,2,4,5-tetramethyl-
CAS No. 527-84-4 Benzene, 1-ethyl-2-(1-methyle
CAS No. 847-41-9 Benzene, 1-ethyl-2,4-dimethyl
CAS No. 1074-43-7 Benzene, 1-methyl-3-propyl-
CAS No. 1074-55-1 Benzene, 1-methyl-4-propyl-
CAS No. 1595-16-0 Benzene, 1-methyl-4-(1-methyl
CAS No. 2085-88-3 Oxirane, 2-methyl-s-phenyl-
CAS No. 2870-04-4 Benzene, 2-ethyl-1,3-dimethyl
E2SG2

## 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

## 12. ADDITIONAL INFORMATION

TICs with no CAS Numbers were not reported in the EXES Sample Summary Report for the volatile fractions. Please refer to Word document "43075 E2SG2 TIC Report" for the validated TIC results.

The following volatile sample has alkanes improperly listed on the Form I TICs. They were removed by the Reviewer.

E2SG2

Case Number: 43075
Site Name: Webb Well Field (IN)

SDG Number: E2SG2
Laboratory: KAP Technologies

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 presence of an analyte for which there is presumptive evidence to make a tentative identification. |
| NJ | The analysis indicates the presence 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.) |

Reviewed by: Deborah Connet / Techlaw-ESAT
Date: 12/20/2012

# Sample Summary Report

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Case No: | 43075 | Contract: | EPW11031 | SDG No | E2SG2 | Lab Code: | KAP |
| Sample Number: | E2SG2 | Method | VOA_Low_Med | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | S-0002 | pH: | 7.9 | Sample Date: | 10/30/2012 | Sample Time | 11:00:00 |
| % Moisture : | 17 | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 4.9 | UG/KG | 1.0 | U | UJ | Yes | |
| Bromomethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 9.9 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 9.8 | UG/KG | 1.0 | JB | U | Yes | |
| trans-1,2-Dichloroethene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 9.9 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 4.9 | UG/KG | 1.0 | U | UJ | Yes | |
| 1,2-Dichloroethane | 4 9 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 99 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 4 9 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Methylcyclohexane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichloromethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 9.9 | UG/KG | 1 0 | U | U | Yes | |
| Toluene | 4.9 | UG/KG | 1 0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 9.9 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 4.9 | UG/KG | 1 0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 4 9 | UG/KG | 1 0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 4.9 | UG/KG | 1.0 | U | U | Yes | |
| Benzene, 1-methyl-4-propyl- | | | 1.0 | NJ | | Yes | |
| Oxirane, 2-methyl-2-phenyl- | | | 1.0 | NJ | | Yes | |
| Benzene, 1-ethyl-2-(1-methyleth | | | 1.0 | NJ | | Yes | |
| Benzene, 1,2,4,5-tetramethyl- | | | 1.0 | NJ | | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Benzene, 1-ethyl-2,4-dimethyl- | | | 1.0 | NJ | | Yes | |
| Cyclohexane, 1,3-dimethyl-, cis- | | | 1.0 | NJ | | No | |
| Heptane, 3,5-dimethyl- | | | 1.0 | NJ | | No | |
| Benzene, 1-methyl-3-propyl- | | | 1.0 | NJ | | Yes | |
| Hexane, 2,3,4-trimethyl- | | | 1.0 | NJ | | No | |
| Cyclohexane, 1,2-dimethyl-, trans- | | | 1.0 | NJ | | No | |
| Benzene, 1-methyl-4-(1-methylpropyl)- | | | 1.0 | NJ | | Yes | |
| Benzene, 2-ethyl-1,3-dimethyl- | | | 1.0 | NJ | | Yes | |
| Benzene, 2-ethyl-1,3-dimethyl- | | | 1.0 | NJ | | Yes | |

| Case No: 43075 | Contract: EPW11031 | SDG No. E2SG2 | Lab Code. KAP |
|---|---|---|---|
| Sample Number: E2SG3 | Method: VOA_Low_Med | Matrix: Soil | MA Number. DEFAULT |
| Sample Location S-0004 | pH 9 1 | Sample Date 10/30/2012 | Sample Time 12 15:00 |
| % Moisture : 9 0 | | % Solids : | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 8.9 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 8.8 | UG/KG | 1.0 | JB | U | Yes | |
| trans-1,2-Dichloroethene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 8.9 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 89 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Methylcyclohexa ne | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 4.4 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 8.9 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 8.9 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 4.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 4.4 | UG/KG | 1.0 | U | U | Yes | |

| Case No· 43075 | Contract: EPW11031 | SDG No: E2SG2 | Lab Code: KAP |
|---|---|---|---|
| Sample Number E2SG4 | Method· VOA_Low_Med | Matrix· Soil | MA Number. DEFAULT |
| Sample Location. S-0008 | pH 7.7 | Sample Date: 10/30/2012 | Sample Time: 14:15 00 |
| % Moisture : 20 | | % Solids · | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.3 | UG/KG | 1 0 | U | U | Yes | |
| Acetone | 11 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 11 | UG/KG | 1.0 | JB | U | Yes | |
| trans-1,2-Dichloroethene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 11 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 5.3 | UG/KG | 1.0 | U | UJ | Yes | |
| 1,2-Dichloroethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 110 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 5.3 | UG/KG | 1.0 | U | UJ | Yes | |
| Methylcyclohexa ne | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 5.3 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 11 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 11 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 5.3 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 5.3 | UG/KG | 1.0 | U | U | Yes | |

| Case No: 43075 | Contract: EPW11031 | SDG No E2SG2 | Lab Code: KAP |
|---|---|---|---|
| Sample Number. E2SG4MS | Method: VOA_Low_Med | Matrix. Soil | MA Number: DEFAULT |
| Sample Location: S-0008 | pH: 8 | Sample Date: 10/30/2012 | Sample Time: 14:15:00 |
| % Moisture : 20 | | % Solids : | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 34 | UG/KG | 1.0 | | | Yes | |
| Dichlorodifluoro methane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 35 | UG/KG | 1.0 | | J | Yes | |
| Vinyl chloride | 5.5 | UG/KG | 1.0 | U | UJ | Yes | |
| Trichloroethene | 33 | UG/KG | 1.0 | | | Yes | |
| Bromomethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 40 | UG/KG | 1.0 | | | Yes | |
| Chlorobenzene | 39 | UG/KG | 1.0 | | | Yes | |
| Chloroethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 11 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 11 | UG/KG | 1.0 | JB | U | Yes | |
| trans-1,2-Dichloroethene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 11 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 110 | UG/KG | 1.0 | U | U | Yes | |
| Methylcyclohexa ne | 5.5 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichloromethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 11 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 11 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 5.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 5.5 | UG/KG | 1 0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 5.5 | UG/KG | 1.0 | U | U | Yes | |

| Case No: 43075 | Contract: EPW11031 | SDG No: E2SG2 | Lab Code: KAP |
|---|---|---|---|
| Sample Number E2SG4MSD | Method VOA_Low_Med | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: S-0008 | pH: 8 | Sample Date: 10/30/2012 | Sample Time: 14:15 00 |
| % Moisture · 20 | | % Solids | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 41 | UG/KG | 1.0 | | | Yes | |
| Chloromethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 40 | UG/KG | 1.0 | | | Yes | |
| Trichloroethene | 39 | UG/KG | 1.0 | | | Yes | |
| Vinyl chloride | 5.4 | UG/KG | 1 0 | U | U | Yes | |
| Bromomethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 45 | UG/KG | 1.0 | | | Yes | |
| Chloroethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 44 | UG/KG | 1.0 | | | Yes | |
| Trichlorofluorom ethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 11 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 11 | UG/KG | 1.0 | JB | U | Yes | |
| trans-1,2-Dichloroethene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 5 4 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 11 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 110 | UG/KG | 1.0 | U | U | Yes | |
| Methylcyclohexa ne | 5.4 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| 1,2-Dichloropropane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichloromethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 11 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 11 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 5.4 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 5.4 | UG/KG | 1.0 | U | U | Yes | |

| Case No: 43075 | Contract | EPW11031 | SDG No: | E2SG2 | Lab Code: | KAP |
|---|---|---|---|---|---|---|
| Sample Number: | E2SH1 | Method | VOA_Low_Med | Matrix: | Soil | MA Number | DEFAULT |
| Sample Location: | S-0012 | pH | 9 0 | Sample Date | 10/31/2012 | Sample Time: | 10·00 00 |
| % Moisture : | 15 | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 14 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 6 8 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 14 | UG/KG | 1.0 | JB | U | Yes | |
| trans-1,2-Dichloroethene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 6 8 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 14 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 6 8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 140 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 29 | UG/KG | 1.0 | | | Yes | |
| Methylcyclohexa ne | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 6.8 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 14 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 39 | UG/KG | 1.0 | | | Yes | |
| 2-Hexanone | 14 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 6.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 6.8 | UG/KG | 1.0 | U | U | Yes | |

| Case No | 43075 | Contract: | EPW11031 | SDG No | E2SG2 | Lab Code: | KAP |
|---|---|---|---|---|---|---|---|
| Sample Number. | E2SH3 | Method· | VOA_Low_Med | Matrix· | Soil | MA Number: | DEFAULT |
| Sample Location· | S-0014 | pH | 7.9 | Sample Date | 10/31/2012 | Sample Time: | 11:30:00 |
| % Moisture : | 11 | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 4.6 | UG/KG | 1 0 | U | U | Yes | |
| Trichlorofluorom ethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 9.2 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 9.2 | UG/KG | 1.0 | JB | U | Yes | |
| trans-1,2-Dichloroethene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 9.2 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 4.6 | UG/KG | 1 0 | U | U | Yes | |
| Chloroform | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 4.6 | UG/KG | 1 0 | U | U | Yes | |
| 1,4-Dioxane | 92 | UG/KG | 1 0 | U | U | Yes | |
| Trichloroethene | 3.0 | UG/KG | 1.0 | J | J | Yes | |
| Methylcyclohexa ne | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 4.6 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 9.2 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 9.2 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |

| Case No: 43075 | Contract: EPW11031 | SDG No: E2SG2 | Lab Code: KAP |
|---|---|---|---|
| Sample Number E2SH5 | Method: VOA_Low_Med | Matrix: Soil | MA Number: DEFAULT |
| Sample Location S-0016 | pH: 8 8 | Sample Date 10/31/2012 | Sample Time: 12:45.00 |
| % Moisture : 10 | | % Solids : | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.6 | UG/KG | 1 0 | U | U | Yes | |
| Acetone | 9.3 | UG/KG | 1 0 | U | U | Yes | |
| Carbon disulfide | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 9.2 | UG/KG | 1.0 | B | U | Yes | |
| trans-1,2-Dichloroethene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 9.3 | UG/KG | 1 0 | U | U | Yes | |
| Bromochloromet hane | 4.6 | UG/KG | 1 0 | U | U | Yes | |
| Chloroform | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 93 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 11 | UG/KG | 1.0 | | | Yes | |
| Methylcyclohexa ne | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 4.6 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 9.3 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 4 6 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 9.3 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 4.6 | UG/KG | 1.0 | U | U | Yes | |

| Case No: 43075 | Contract· EPW11031 | SDG No· E2SG2 | Lab Code KAP |
|---|---|---|---|
| Sample Number: E2SH7 | Method VOA_Low_Med | Matrix Soil | MA Number: DEFAULT |
| Sample Location S-0018 | pH· 8.7 | Sample Date: 10/31/2012 | Sample Time 14 00:00 |
| % Moisture : 2.0 | | % Solids : | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 3.5 | UG/KG | 1 0 | U | U | Yes | |
| Chloromethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 7.0 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 3 5 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 3.5 | UG/KG | 1 0 | U | U | Yes | |
| Methylene chloride | 7.0 | UG/KG | 1.0 | B | U | Yes | |
| trans-1,2-Dichloroethene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 7.0 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 3 5 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 70 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 3.5 | UG/KG | 1 0 | U | U | Yes | |
| Methylcyclohexa ne | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 3.5 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 7.0 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 3 5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 7.0 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 3 5 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 3 5 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 3.5 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 3.5 | UG/KG | 1.0 | U | U | Yes | |

| Case No | 43075 | Contract | EPW11031 | SDG No | E2SG2 | Lab Code: | KAP |
|---|---|---|---|---|---|---|---|
| Sample Number. | E2SJ1 | Method | VOA_Low_Med | Matrix· | Soil | MA Number: | DEFAULT |
| Sample Location: | S-0020 | pH: | 9.1 | Sample Date· | 11/01/2012 | Sample Time· | 10 00.00 |
| % Moisture : | 55 | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 8 8 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 18 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 18 | UG/KG | 1.0 | JB | U | Yes | |
| trans-1,2-Dichloroethene | 12 | UG/KG | 1.0 | | | Yes | |
| Methyl tert-butyl ether | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 150 | UG/KG | 1.0 | | | Yes | |
| 2-Butanone | 18 | UG/KG | 1 0 | U | U | Yes | |
| Bromochloromet hane | 8.8 | UG/KG | 1 0 | U | U | Yes | |
| Chloroform | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 8 8 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 8 8 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 180 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 10 | UG/KG | 1.0 | | | Yes | |
| Methylcyclohexa ne | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 8.8 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 18 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 18 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 8 8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 8.8 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 8.8 | UG/KG | 1.0 | U | UJ | Yes | |

| Case No | 43075 | Contract. | EPW11031 | SDG No: | E2SG2 | Lab Code | KAP |
|---|---|---|---|---|---|---|---|
| Sample Number. | E2SJ3 | Method | VOA_Low_Med | Matrix: | Soil | MA Number. | DEFAULT |
| Sample Location | S-0022 | pH | 9 5 | Sample Date· | 11/01/2012 | Sample Time | 10.00 00 |
| % Moisture | 53 | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 8.7 | UG/KG | 1 0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 17 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 17 | UG/KG | 1.0 | JB | U | Yes | |
| trans-1,2-Dichloroethene | 7.4 | UG/KG | 1.0 | J | J | Yes | |
| Methyl tert-butyl ether | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 110 | UG/KG | 1.0 | | | Yes | |
| 2-Butanone | 17 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 170 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 15 | UG/KG | 1.0 | | | Yes | |
| Methylcyclohexa ne | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 8.7 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 17 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 17 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 8 7 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 8.7 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 8.7 | UG/KG | 1.0 | U | UJ | Yes | |

| Case No· 43075 | Contract. | EPW11031 | SDG No: | E2SG2 | Lab Code | KAP |
|---|---|---|---|---|---|---|
| Sample Number | E2SJ5 | Method | VOA_Low_Med | Matrix· | Soil | MA Number | DEFAULT |
| Sample Location: | S-0024 | pH. | 9 3 | Sample Date. | 11/01/2012 | Sample Time | 11 45:00 |
| % Moisture · | 9 0 | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 8.2 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 4 1 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 8.2 | UG/KG | 1.0 | B | U | Yes | |
| trans-1,2-Dichloroethene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 8.2 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 82 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 0.78 | UG/KG | 1.0 | J | J | Yes | |
| Methylcyclohexa ne | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 4.1 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 8.2 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 8.2 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 4.1 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 4.1 | UG/KG | 1.0 | U | UJ | Yes | |

| Case No: 43075 | Contract: EPW11031 | SDG No E2SG2 | Lab Code: KAP |
|---|---|---|---|
| Sample Number. VBLKFF | Method: VOA_Low_Med | Matrix· Soil | MA Number: DEFAULT |
| Sample Location: | pH | Sample Date· | Sample Time: |
| % Moisture : 0.00 | | % Solids | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 4.1 | UG/KG | 1.0 | J | J | Yes | |
| trans-1,2-Dichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 5 0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 5.0 | UG/KG | 1 0 | U | U | Yes | |
| 1,4-Dioxane | 100 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methylcyclohexa ne | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 5.0 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 5 0 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |

| Case No: 43075 | Contract: EPW11031 | SDG No· E2SG2 | Lab Code KAP |
|---|---|---|---|
| Sample Number: VBLKFH | Method VOA_Low_Med | Matrix· Soil | MA Number: DEFAULT |
| Sample Location: | pH: | Sample Date: | Sample Time |
| % Moisture · 0 00 | | % Solids : | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 5.0 | UG/KG | 1 0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 10 | UG/KG | 1 0 | U | U | Yes | |
| Carbon disulfide | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 4.3 | UG/KG | 1.0 | J | J | Yes | |
| trans-1,2-Dichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 100 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methylcyclohexa ne | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 5.0 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 5 0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 5.0 | UG/KG | 1.0 | U | UJ | Yes | |

| Case No: 43075 | Contract EPW11031 | SDG No: E2SG2 | Lab Code: KAP |
|---|---|---|---|
| Sample Number: VHBLK01 | Method: VOA_Low_Med | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: | pH: | Sample Date: | Sample Time |
| % Moisture : 0.00 | | % Solids : | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| Dichlorodifluoro methane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chloromethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Vinyl chloride | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Bromomethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Acetone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Carbon disulfide | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methyl acetate | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methylene chloride | 10 | UG/KG | 1.0 | B | U | Yes | |
| trans-1,2-Dichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 2-Butanone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Bromochloromet hane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chloroform | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Cyclohexane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Benzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 100 | UG/KG | 1.0 | U | U | Yes | |
| Trichloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Methylcyclohexa ne | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Bromodichlorom | 5.0 | UG/KG | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---|---|---|---|---|---|---|---|
| ethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 5.0 | UG/KG | 1 0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Toluene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| trans-1,3-Dichloropropene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Tetrachloroethene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 2-Hexanone | 10 | UG/KG | 1.0 | U | U | Yes | |
| Dibromochloromethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Chlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Ethylbenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| o-Xylene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| m,p-Xylene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Styrene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Bromoform | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| Isopropylbenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,1,2,2-Tetrachloroethane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 5.0 | UG/KG | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 5.0 | UG/KG | 1.0 | U | UJ | Yes | |

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc ) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01.2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=E2SG2 Location=S-0002 Matrix=Soil Level=LOW

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---|---|---|---|---|---|
| | Unknown-01 | 4 80 | 36 | UG/KG | J |
| | Unknown-02 | 6 00 | 58 | UG/KG | J |
| | Unknown-03 | 6 15 | 210 | UG/KG | J |
| | Unknown-04 | 6.63 | 51 | UG/KG | J |
| | Unknown-05 | 7 84 | 38 | UG/KG | J |
| | Unknown-06 | 7.93 | 62 | UG/KG | J |
| | Unknown-07 | 8 16 | 42 | UG/KG | J |
| | Unknown-08 | 8.74 | 56 | UG/KG | J |
| | Unknown-10 | 9.63 | 34 | UG/KG | J |
| | Unknown-11 | 10.49 | 35 | UG/KG | J |
| | Unknown-12 | 11.06 | 39 | UG/KG | J |
| | Unknown-13 | 11.78 | 88 | UG/KG | J |
| | Unknown-14 | 14 05 | 38 | UG/KG | J |
| | Unknown-15 | 14 22 | 35 | UG/KG | J |
| 001074-43-7 | Benzene, 1-methyl-3-propyl- | 16.89 | 180 | UG/KG | NJ |
| 002085-88-3 | Oxirane, 2-methyl-2-phenyl- | 16 96 | 75 | UG/KG | NJ |
| 001074-55-1 | Benzene, 1-methyl-4-propyl- | 17.36 | 55 | UG/KG | NJ |
| 002870-04-4 | Benzene, 2-ethyl-1,3-dimethyl- | 17.52 | 100 | UG/KG | NJ |
| 000874-41-9 | Benzene, 1-ethyl-2,4-dimethyl- | 17.69 | 110 | UG/KG | NJ |
| 000095-93-2 | Benzene, 1,2,4,5-tetramethyl- | 18.44 | 57 | UG/KG | NJ |
| 000527-84-4 | Benzene, 1-ethyl-2-(1-methyleth | 18 53 | 58 | UG/KG | NJ |
| | Unknown-16 | 18 96 | 38 | UG/KG | J |
| 002870-04-4 | Benzene, 2-ethyl-1,3-dimethyl- | 19.28 | 50 | UG/KG | NJ |
| 001595-16-0 | Benzene, 1-methyl-4-(1-methylpropyl)- | 19.43 | 33 | UG/KG | NJ |
| | Unknown-17 | 19 94 | 36 | UG/KG | J |

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc ) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01 2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=E2SG3 Location=S-0004 Matrix=Soil Level=LOW

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc.) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01.2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=E2SG4 Location=S-0008 Matrix=Soil Level=LOW

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc ) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01 2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=E2SH1 Location=S-0012 Matrix=Soil Level=LOW

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc.) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01 2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=E2SH3 Location=S-0014 Matrix=Soil Level=LOW

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc ) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01.2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=E2SH5 Location=S-0016 Matrix=Soil Level=LOW

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc.) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01 2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=E2SH7 Location=S-0018 Matrix=Soil Level=LOW

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc ) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01 2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=E2SJ1 Location=S-0020 Matrix=Soil Level=LOW

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc ) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01 2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=E2SJ3 Location=S-0022 Matrix=Soil Level=LOW

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---|---|---|---|---|---|
| | Unknown-01 | 3.70 | 17 | UG/KG | J |

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc ) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01 2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=E2SJ5 Location=S-0024 Matrix=Soil Level=LOW

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc.) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01.2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=VBLKFF Location= Matrix=Soil Level=LOW

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---|---|---|---|---|---|
| | Unknown-01 | 9 56 | 87 | UG/KG | J |

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc.) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01 2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=VBLKFH Location= Matrix=Soil Level=LOW

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---|---|---|---|---|---|
| | Unknown-01 | 9.58 | 90 | UG/KG | J |

# National Functional Guidelines Report #09

**Lab** KAP(KAP Technologies, Inc ) **SDG** E2SG2 **Case** 43075 **Contract** EPW11031 **Region** 5 **DDTID** 165605 **SOW** SOM01 2

## *Tentatively Identified Compounds*

VOA_Low_Med Sample=VHBLK01 Location= Matrix=Soil Level=LOW

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 26 NOV 2012

FROM: Timothy Prendiville, Supervisor (**SR-6J**)
Superfund Contract Management Section

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE NAME: Webb Well Field (IN)

CASE NUMBER: 43075 SDG NUMBER: E2SG2

Number and Type of Samples: 10 Soil Samples

Sample Numbers: E2SG2 - G4; H1; H3; H5; H7; J1; J3; J5

Laboratory: Kap Technologies Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: **SA-5J**

Contract Laboratory Program

# Sample Delivery Group (SDG) Cover Sheet

| | | | | | |
|---|---|---|---|---|---|
| SDG Number | E2SG2 | Case Number | 43075 | Contract Number | EPW11031 |
| Lab Code | KAP | SDG Turnaround | 21 DAY | Delivery CLIN(s) | _____ |

| | | | |
|---|---|---|---|
| First Sample Received in SDG | E2SG2 | Last Sample Received in SDG | E2SJ5 |
| First Sample Receipt Date | 10/31/2012 | Last Sample Receipt Date | 11/02/2012 |

USEPA Sample Numbers in SDG (Listed in Numerical Order)

| CLP Sample ID | Sample Type | Requested Analytical CLIN(s)/SubCLIN(s) | Solicitation Number | MA Number(s) |
|---|---|---|---|---|
| 1 E2SG2 | SOIL | VOA | | |
| 2 E2SG3 | SOIL | VOA | | |
| 3 E2SG4 | SOIL | VOA | | |
| 4 E2SH1 | SOIL | VOA | | |
| 5 E2SH3 | SOIL | VOA | | |
| 6 E2SH5 | SOIL | VOA | | |
| 7 E2SH7 | SOIL | VOA | | |
| 8 E2SJ1 | SOIL | VOA | | |
| 9 E2SJ3 | SOIL | VOA | | |
| 10 E2SJ5 | SOIL | VOA | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

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

Signature _____ Date 11/06/2012

EPW11031

**USEPA CLP Organics COC (LAB COPY)**

**CHAIN OF CUSTODY RECORD**

**No: 5-103012-154732-0001**

DateShipped: 10/30/2012
CarrierName: FedEx
AirbillNo: 854390225968

Case #. 43075
Cooler #: 1

SDG: E2SG2

Lab: KAP Technologies Inc.
Lab Contact:
Lab Phone: 281-367-0065

| Organic Sample # | Matrix/Sampler | Coll. Method | Analysis/Turnaround | Tag/Preservative/Bottles | Station Location | Collected | Inorganic Sample # | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| E2SG1 | Ground Water/ Amanda Metz Owen | Grab | CLP TVOA(21) | 5-020104 (HCl) (3) | GW-0001 | 10/30/2012 12:30 | | |
| E2SG2 | Soil/ Rick Milton | Grab | PER_SOL(21) | 5-020108 (None) (1) | S-0001 | 10/30/2012 11:00 | S-5A | 63.01 |
| E2SG2 | Soil/ Rick Milton | Grab | VOA(21) | 5-020109 (None) (1) | S-0002 | 10/30/2012 11:00 | | |
| E2SG3 | Soil/ Amanda Metz Owen | Grab | PER_SOL(21) | 5-020101 (None) (1) | S-0003 | 10/30/2012 12:15 | | .02 |
| E2SG3 | Soil/ Amanda Metz Owen | Grab | VOA(21) | 5-020103 (None) (3) | S-0004 | 10/30/2012 12:15 | | |
| E2SG4 | Soil/ Rick Milton | Grab | PER_SOL(21) | 5-020105 (None) (1) | S-0005 | 10/30/2012 14:15 | | .03 |
| E2SG4 | Soil/ Rick Milton | Grab | VOA(21) | 5-020106 (None) (3) | S-0006 | 10/30/2012 14:15 | | |
| E2SG4 | Soil/ Rick Milton | Grab | PER_SOL(21) | 5-020107 (None) (1) | S-0007 | 10/30/2012 14:15 | | |
| E2SG4 | Soil/ Rick Milton | Grab | VOA(21) | 5-020109 (None) (3) | S-0008 | 10/30/2012 14:15 | | |
| E2SG4 | Soil/ Rick Milton | Grab | PER_SOL(21) | 5-020110 (None) (1) | S-0009 | 10/30/2012 14:15 | | |
| E2SG4 | Soil/ Rick Milton | Grab | VOA(21) | 5-020111 (None) (3) | S-0010 | 10/30/2012 14:15 | | |
| E2SG5 | Ground Water/ Rick Milton | Grab | CLP TVOA(21) | 5-020113 (HCl) (3) | GW-0003 | 10/30/2012 14:30 | | |
| E2SG5 | Ground Water/ Rick Milton | Grab | CLP TVOA(21) | 5-020114 (HCl) (3) | GW-0004 | 10/30/2012 14:30 | | |
| E2SG5 | Ground Water/ Rick Milton | Grab | CLP TVOA(21) | 5-020115 (HCl) (2) | GW-0005 | 10/30/2012 14:30 | | |

1 S-5A

Sample(s) to be used for Lab QC: E2SG4, E2SG4, E2SG4, E2SG5, E2SG5 - Special Instructions: Please return to IDEM

Temp: 3.8°

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #** 23737, 23736

Analysis Key: CLP TVOA=CLP TCL Trace Volatiles, PER_SOL=Percent Solids, VOA=Soil VOA

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished By | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | [signature] | 10/30/12 | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | [signature] | 10/31/12 | 9:50 |

ORIGINAL
Case: 43075 SDG: E2SG1
Episode: 5-5063 Init/date: NH 10/31/12

8087

EP W11031

**USEPA CLP Organics COC (LAB COPY)**

**CHAIN OF CUSTODY RECORD**

**No: 5-103112-153014-0002**

DateShipped: 10/31/2012
CarrierName: FedEx
AirbillNo: 854390225979

Case #: 43075
Cooler #: 2
SDG: E2SG2

Lab. KAP Technologies Inc
Lab Contact: Rao Alsakani
Lab Phone: 281-367-0065

| Organic Sample # | Matrix/Sampler | Coll. Method | Analysis/Turnaround | Tag/Preservative/Bottles | Station Location | Collected | Inorganic Sample # | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| E2SH1 | Soil/ Rick Milton | Grab | PER_SOL(21) | 5-020116 (None) (1) | S-0011 | 10/31/2012 10:00 | S-5266.01 | |
| E2SH1 | Soil/ Rick Milton | Grab | VOA(21) | 5-020117 (None) (3) | S-0012 | 10/31/2012 10:00 | ↓ | ↓ |
| E2SH2 | Ground Water/ Rick Milton | Grab | CLP TVOA(21) | 5-020119 (HCl) (3) | GW-0006 | 10/31/2012 10:35 | | |
| E2SH3 | Soil/ Amanda Metz Owen | Grab | PER_SOL(21) | 5-020120 (None) (1) | S-0013 | 10/31/2012 11:30 | S-5266.02 | |
| E2SH3 | Soil/ Amanda Metz Owen | Grab | VOA(21) | 5-020121 (None) (3) | S-0014 | 10/31/2012 11:30 | ↓ | ↓ |
| E2SH4 | Ground Water/ Amanda Metz Owen | Grab | CLP TVOA(21) | 5-020118 (HCl) (3) | GW-0007 | 10/31/2012 11:45 | | |
| E2SH5 | Soil/ Amanda Metz Owen | Grab | PER_SOL(21) | 5-020123 (None) (1) | S-0015 | 10/31/2012 12:45 | S-5266.03 | |
| E2SH5 | Soil/ Amanda Metz Owen | Grab | VOA(21) | 5-020124 (None) (3) | S-0016 | 10/31/2012 12:45 | ↓ | ↓ |
| E2SH6 | Ground Water/ Amanda Metz Owen | Grab | CLP TVOA(21) | 5-020122 (HCl) (3) | GW-0008 | 10/31/2012 13:00 | | |
| E2SH7 | Soil/ Amanda Metz Owen | Grab | PER_SOL(21) | 5-020125 (None) (1) | S-0017 | 10/31/2012 14:00 | S-5266.04 | |
| E2SH7 | Soil/ Amanda Metz Owen | Grab | VOA(21) | 5-020126 (None) (3) | S-0018 | 10/31/2012 14:00 | ↓ | ↓ |

Special Instructions: Please return cooler to IDEM

Temp: 3.0°C

**Shipment for Case Complete? N**

**Samples Transferred From Chain of Custody #** 23738, 23739

Analysis Key: PER_SOL=Percent Solids, VOA=Soil VOA, CLP TVOA=CLP TCL Trace Volatiles

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished By | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | [signature] | 10.31.12 | | | | | | | | | |
| | | | | | | | | | Nicole Hague | 11/1/12 10:10 | |

ORIGINAL
Case: 43075 SDG: E2SG2
Episode: S-5266 Init/date: 11/1/12

EPW11031

**USEPA CLP Organics COC (LAB COPY)**

DateShipped: 11/1/2012
CarrierName: FedEx
AirbillNo: 854390226173

**CHAIN OF CUSTODY RECORD**

Case #: 43075
Cooler #: 3

SDG: E3SG2

**No: 5-110112-141454-0003**

Lab: KAP Technologies Inc.
Lab Contact: Rao Alsakani
Lab Phone: 281-367-0065

| Organic Sample # | Matrix/Sampler | Coll. Method | Analysis/Turnaround | Tag/Preservative/Bottles | Station Location | Collected | Inorganic Sample # | For Lab Use Only |
|---|---|---|---|---|---|---|---|---|
| E2SG6 | Ground Water/ Rick Milton | Grab | CLP TVOA(21) | 5-020140 (HCl) (3) | GW-0016 | 11/01/2012 15:15 | | |
| E2SJ1 | Soil/ Rick Milton | Grab | PER_SOL(21) | 5-020129 (None) (1) | S-0019 | 11/01/2012 10:00 | 5-5273.01 | |
| E2SJ1 | Soil/ Rick Milton | Grab | VOA(21) | 5-020130 (None) (3) | S-0020 | 11/01/2012 | ↓ | ↓ |
| E2SJ2 | Ground Water/ Rick Milton | Grab | CLP TVOA(21) | 5-020131 (HCl) (3) | GW-0011 | 11/01/2012 10:15 | | |
| E2SJ3 | Soil/ Rick Milton | Grab | PER_SOL(21) | 5-020132 (None) (1) | S-0021 | 11/01/2012 10:00 | 5-5273.02 | |
| E2SJ3 | Soil/ Rick Milton | Grab | VOA(21) | 5-020133 (None) (3) | S-0022 | 11/01/2012 10:00 | ↓ | ↓ |
| E2SJ4 | Ground Water/ Rick Milton | Grab | CLP TVOA(21) | 5-020134 (HCl) (3) | GW-0012 | 11/01/2012 10:15 | | |
| E2SJ5 | Soil/ Rick Milton | Grab | PER_SOL(21) | 5-020135 (None) (1) | S-0023 | 11/01/2012 11:45 | 5-5273.03 | |
| E2SJ5 | Soil/ Rick Milton | Grab | VOA(21) | 5-020136 (None) (3) | S-0024 | 11/01/2012 11:45 | ↓ | ↓ |
| E2SJ6 | Ground Water/ Rick Milton | Grab | CLP TVOA(21) | 5-020137 (HCl) (3) | GW-0013 | 11/01/2012 12.15 | | |
| E2SJ7 | Ground Water/ Rick Milton | Grab | CLP TVOA(21) | 5-020139 (HCl) (3) | GW-0015 | 11/01/2012 13:30 | | |
| E2SK1 | Ground Water/ Rick Milton | Grab | CLP TVOA(21) | 5-020138 (HCl) (3) | GW-0014 | 11/01/2012 12:30 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

ORIGINAL
Case: 43075 SDG: E3SG2
Episode: 5-5273 Init/date: NH 11/2/12

Special Instructions: Please return cooler to IDEM.

Temp: 2.1°C

**Shipment for Case Complete? Y**

**Samples Transferred From Chain of Custody #**
23740, 23741

Analysis Key: CLP TVOA=CLP TCL Trace Volatiles, PER_SOL=Percent Solids, VOA=Soil VOA

| Items/Reason | Relinquished by | Date | Received by | Date | Time | Items/Reason | Relinquished By | Date | Received by | Date | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | R Milton | 11-1-12 | | | | | | | | | |
| | | | | | | | | | Nicole | 11/2/12 | |
| | | | | | | | | | Hogue | 10:00 | |

KAP TECHNOLOGIES, INC.
9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065

| Contract No. EPW11031 | Case No. 43075 | SDG No. E2SG2 |
|---|---|---|

SDG NARRATIVE

## SAMPLE RECEIPT:

**On 10/31/2012 @ 09:50 A.M.** – The Laboratory received one cooler via FedEx with shipment number 854390225968. The cooler temperature was 3.8$^0$C and the custody seal numbers were 23736 and 23737.

**On 11/01/2012 @ 10:10 A.M.** – The Laboratory received one cooler via FedEx with shipment number 854390225979. The cooler temperature was 3.0$^0$C and the custody seal numbers were 23738 and 23739.

**On 11/02/2012 @ 10:00 A.M.** – The Laboratory received one cooler via FedEx with shipment number 854390226173. The cooler temperature was 2.1$^0$C and the custody seal numbers were 23740 and 23741.

The package contained the following samples for VOA analyses.
The custody seals and the samples were intact.

| EPA SAMPLE ID | pH | EPA SAMPLE ID | pH |
|---|---|---|---|
| E2SG2 | NA | E2SH3 | NA |
| E2SG3 | NA | E2SH5 | NA |
| E2SG4 | NA | E2SH7 | NA |
| E2SG4MS | NA | E2SJ1 | NA |
| E2SG4MSD | NA | E2SJ3 | NA |
| E2SH1 | NA | E2SJ5 | NA |

No problems were encountered during sample receiving and login.

## VOA SOIL SAMPLE:

The samples for VOA were placed in Freezer B after receipt.

The samples were analyzed on A-5973 GC/MS using a 30 meters long RTX-VMS column having a 0.25mm ID and 3µm film thickness. The trap used was OV-1/Tenax/Silica Gel (Tekmar #6 CAT #14-1755-003).

A 10 mL purge volume was used for all samples, blanks and standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).
The samples were analyzed for Volatiles as per SOM 1.2 statement of work.

No problems were encountered during the sample analysis.

**KAP TECHNOLOGIES, INC.**
**9391 Grogans Mill Rd, Suite A2 • The Woodlands, TX 77380 • Phone (281) 367-0065**

| Contract No. EPW11031 | Case No. 43075 | SDG No. E2SG2 |
|---|---|---|

## SDG NARRATIVE

***The formula used to calculate the Sample concentration:***

**LOW-MED-VOA SOIL SAMPLE:**

$$\text{Concentration in ug/L} = \frac{(A_x)\,(I_s)\,(DF)}{(A_{is})\,(RRF)\,(W_s)(D)}$$

*Where,*
$A_x$ = *Area of the characteristic ion (EICP) for the compound to be measured.*
$A_{is}$ = *Area of the characteristic ion (EICP) for the internal standard.*
*Is = Amount of internal standard added in ng*
*RRF = Mean relative Response Factor from the initial calibration standard.*

$$D = \frac{100 - \%\ Moisture}{100}$$

$W_s$ = *Weight of sample added to the purge tube, in g.*

**Manual Integrations:**

The software did not pick-up the following compounds and these compounds were manually integrated and the EICP is enclosed in the data package.

E2SG4 – 1,4-Dioxane-d8
VSTD005EP – 1,4-Dioxane-d8
VSTD005EP – trans-1,3-Dichloropropene-d4
VSTD005EP – 1,4-Dioxane
VSTD005EP – cis-1,3-Dichloropropene
VSTD005EP - trans-1,3-Dichloropropene
VSTD2.5EP – 1,4-Dioxane-d8
VSTD2.5EP – trans-1,3-Dichloropropene-d4
VSTD2.5EP – 1,4-Dioxane
VSTD2.5EP – cis-1,3-Dichloropropene
VSTD025FH – Methyl acetate
VSTD025FH – 2-Butanone
VHBLK01 – Vinyl Chloride-d3

*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 sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature:*

Nicole Hogue

Nicole Hogue/ CLP Coordinator

11/21/12
Date of Signature

2C - FORM II VOA-3
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Level: (LOW/MED) LOW

| | EPA SAMPLE NO. | VDMC1 (VCL) # | VDMC2 (CLA) # | VDMC3 (DCE) # | VDMC4 (BUT) # | VDMC5 (CLF) # | VDMC6 (DCA) # | VDMC7 (BEN) # |
|---|---|---|---|---|---|---|---|---|
| 01 | VBLKFF | 72 | 91 | 71 | 99 | 104 | 114 | 86 |
| 02 | E2SG3 | 77 | 88 | 69 | 118 | 94 | 105 | 91 |
| 03 | E2SG4 | 69 | 89 | 71 | 133 | 95 | 109 | 91 |
| 04 | E2SG4MS | 66 * | 78 | 78 | 100 | 91 | 97 | 79 * |
| 05 | E2SG4MSD | 78 | 85 | 83 | 102 | 93 | 102 | 85 |
| 06 | E2SH1 | 70 | 83 | 67 | 125 | 84 | 101 | 93 |
| 07 | E2SH5 | 78 | 92 | 72 | 131 | 96 | 109 | 104 |
| 08 | E2SG2 | 59 * | 61 | 49 | 100 | 72 | 81 | 76 * |
| 09 | E2SH3 | 70 | 68 | 58 | 95 | 82 | 89 | 88 |
| 10 | E2SH7 | 71 | 70 | 60 | 101 | 82 | 100 | 94 |
| 11 | VBLKFH | 74 | 84 | 69 | 91 | 91 | 102 | 94 |
| 12 | E2SJ5 | 72 | 78 | 65 | 123 | 90 | 106 | 85 |
| 13 | E2SJ1 | 70 | 82 | 68 | 138 | 90 | 105 | 97 |
| 14 | E2SJ3 | 69 | 77 | 62 | 121 | 94 | 103 | 87 |
| 15 | VHBLK01 | 68 | 82 | 65 | 100 | 91 | 101 | 83 |
| 16 | | | | | | | | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |

| | QC LIMITS |
|---|---|
| VDMC1 (VCL) = Vinyl Chloride-d3 | (68-122) |
| VDMC2 (CLA) = Chloroethene-d5 | (61-130) |
| VDMC3 (DCE) = 1,1-Dichloroethene-d2 | (45-132) |
| VDMC4 (BUT) = 2-Butanone-d5 | (20-182) |
| VDMC5 (CLF) = Chloroform-d | (72-123) |
| VDMC6 (DCA) = 1,2-Dichloroethane-d4 | (79-122) |
| VDMC7 (BEN) = Benzene-d6 | (80-121) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits



SOM01.1 (5/2005)

2D - FORM II VOA-4
SOIL VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Level: ( LOW/MED) LOW

| | EPA SAMPLE NO. | VDMC8 (DPA) # | VDMC9 (TOL) # | VDMC10 (TDP) # | VDMC11 (HEX) # | VDMC12 (DXE) # | VDMC13 (TCA) # | VDMC14 (DCZ) # | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|
| 01 | VBLKFF | 83 | 100 | 105 | 63 | 70 | 88 | 101 | 0 |
| 02 | E2SG3 | 90 | 100 | 105 | 96 | 73 | 103 | 92 | 0 |
| 03 | E2SG4 | 88 | 98 | 117 | 101 | 92 | 112 | 101 | 0 |
| 04 | E2SG4MS | 79 | 94 | 101 | 59 | 88 | 101 | 95 | 2 |
| 05 | E2SG4MSD | 85 | 95 | 102 | 73 | 93 | 110 | 95 | 0 |
| 06 | E2SH1 | 94 | 100 | 98 | 100 | 87 | 107 | 91 | 0 |
| 07 | E2SH5 | 106 | 107 | 103 | 112 | 88 | 114 | 98 | 0 |
| 08 | E2SG2 | 92 | 96 | 115 | 107 | 95 | 127 | 90 | 2 |
| 09 | E2SH3 | 89 | 98 | 100 | 72 | 64 | 94 | 91 | 0 |
| 10 | E2SH7 | 97 | 97 | 100 | 81 | 69 | 98 | 76 | 0 |
| 11 | VBLKFH | 91 | 106 | 109 | 62 | 65 | 92 | 100 | 0 |
| 12 | E2SJ5 | 88 | 96 | 90 | 85 | 85 | 96 | 93 | 0 |
| 13 | E2SJ1 | 96 | 103 | 94 | 109 | 92 | 117 | 98 | 0 |
| 14 | E2SJ3 | 91 | 96 | 90 | 90 | 83 | 103 | 97 | 0 |
| 15 | VHBLK01 | 84 | 93 | 98 | 70 | 67 | 91 | 95 | 0 |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |

| | QC LIMITS |
|---|---|
| VDMC8 (DPA) = 1,2-Dichloropropane-d6 | (74-124) |
| VDMC9 (TOL) = Toluene-d8 | (78-121) |
| VDMC10 (TDP) = trans-1,3-Dichloropropene-d4 | (72-130) |
| VDMC11 (HEX) = 2-Hexanone-d5 | (17-184) |
| VDMC12 (DXE) = 1,4-Dioxane-d8 | (50-150) |
| VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d | (56-161) |
| VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4 | (70-131) |

# Column to be used to flag recovery values
* Values outside of contract required QC limits



SOM01.1 (5/2005)

3B - FORM III VOA-2
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix Spike - EPA Sample No.: E2SG4 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 | 55 | 0 | 34 | 62 | 59-172 |
| Trichloroethene | 55 | 0 | 33 | 60 * | 62-137 |
| Benzene | 55 | 0 | 35 | 64 * | 66-142 |
| Toluene | 55 | 0 | 40 | 73 | 59-139 |
| Chlorobenzene | 55 | 0 | 39 | 71 | 60-133 |

| COMPOUND | SPIKE ADDED (ug/kg) | MSD CONCENTRATION (ug/kg) | MSD % REC # | % RPD # | QC LIMITS RPD | QC LIMITS REC. |
|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | 54 | 41 | 76 | 20 | 0-22 | 59-172 |
| Trichloroethene | 54 | 39 | 72 | 18 | 0-24 | 62-137 |
| Benzene | 54 | 40 | 74 | 14 | 0-21 | 66-142 |
| Toluene | 54 | 45 | 83 | 13 | 0-21 | 59-139 |
| Chlorobenzene | 54 | 44 | 81 | 13 | 0-21 | 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: 2 out of 10 outside limits

COMMENTS: _____

_____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKFF

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Lab File ID: A32342 Lab Sample ID: VBLKFF

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 11/03/2012

Level: (TRACE or LOW/MED LOW Time Analyzed: 1027

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E2SG3 | S-5263.02 | A32343 | 1059 |
| 02 | E2SG4 | S-5263.03 | A32344 | 1131 |
| 03 | E2SG4MS | S-5263.03MS | A32347 | 1311 |
| 04 | E2SG4MSD | S-5263.03MSD | A32348 | 1343 |
| 05 | E2SH1 | S-5266.01 | A32349 | 1415 |
| 06 | E2SH5 | S-5266.03 | A32351 | 1519 |
| 07 | E2SG2 | S-5263.01 | A32353 | 1622 |
| 08 | E2SH3 | S-5266.02 | A32355 | 1806 |
| 09 | E2SH7 | S-5266.04 | A32356 | 1837 |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS: _____



SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKFH

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Lab File ID: A32362 Lab Sample ID: VBLKFH

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) SOIL Date Analyzed: 11/05/2012

Level: (TRACE or LOW/MED LOW Time Analyzed: 1713

GC Column: RTX-VMS ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E2SJ5 | S-5273.03 | A32370 | 2204 |
| 02 | E2SJ1 | S-5273.01 | A32371 | 2235 |
| 03 | E2SJ3 | S-5273.02 | A32372 | 2308 |
| 04 | VHBLK01 | S-5263.04 | A32373 | 2339 |
| 05 | | | | |
| 06 | | | | |
| 07 | | | | |
| 08 | | | | |
| 09 | | | | |
| 10 | | | | |
| 11 | | | | |
| 12 | | | | |
| 13 | | | | |
| 14 | | | | |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |
| 29 | | | | |
| 30 | | | | |

COMMENTS: _____



SOM01.1 (5/2005)

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 10/26/2012 10/26/2012

EPA Sample No. (VSTD#####): VSTD025FF Date Analyzed: 11/03/2012

Lab File ID (Standard): A32340 Time Analyzed: 0843

Instrument ID: A-5973 Heated Purge: (Y/N) Y

| | | IS1 (CBZ) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 4037968 | 12.35 | 3857269 | 7.78 | 2614330 | 16.43 |
| | UPPER LIMIT | 8075936 | 12.85 | 7714538 | 8.28 | 5228660 | 16.93 |
| | LOWER LIMIT | 2018984 | 11.85 | 1928634 | 7.28 | 1307165 | 15.93 |
| | EPA SAMPLE No. | | | | | | |
| 01 | VSTD025FF | 4037968 | 12.35 | 3857269 | 7.78 | 2614330 | 16.43 |
| 02 | VBLKFF | 5824616 | 12.35 | 5015002 | 7.79 | 3417181 | 16.43 |
| 03 | E2SG3 | 4682253 | 12.35 | 4677293 | 7.79 | 2199019 | 16.43 |
| 04 | E2SG4 | 4994988 | 12.35 | 4814925 | 7.79 | 2601340 | 16.43 |
| 05 | E2SG4MS | 6521254 | 12.36 | 6045204 | 7.80 | 3507471 | 16.44 |
| 06 | E2SG4MSD | 5315386 | 12.36 | 5081249 | 7.79 | 2732765 | 16.43 |
| 07 | E2SH1 | 4873526 | 12.36 | 5160263 | 7.79 | 2186806 | 16.43 |
| 08 | E2SH5 | 4361933 | 12.36 | 4876406 | 7.79 | 1713995 | 16.43 |
| 09 | E2SG2 | 6447764 | 12.36 | 6829883 | 7.79 | 3897891 | 16.43 |
| 10 | E2SH3 | 7203703 | 12.36 | 6900611 | 7.79 | 3811279 | 16.43 |
| 11 | E2SH7 | 6548216 | 12.36 | 6603623 | 7.79 | 4260970 | 16.43 |
| 12 | VSTD025FG | 4942005 | 12.35 | 5135707 | 7.79 | 3017363 | 16.43 |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

8A - FORM VIII VOA

VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

GC Column: RTX-VMS ID: 0.25 (mm) Init. Calib. Date(s): 10/26/2012 10/26/2012

EPA Sample No.(VSTD#####): VSTD025FH Date Analyzed: 11/05/2012

Lab File ID (Standard): A32361 Time Analyzed: 1638

Instrument ID: A-5973 Heated Purge: (Y/N) Y

| | | IS1 (CBZ) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 4877195 | 12.37 | 4800420 | 7.80 | 3225234 | 16.44 |
| | UPPER LIMIT | 9754390 | 12.87 | 9600840 | 8.30 | 6450468 | 16.94 |
| | LOWER LIMIT | 2438597 | 11.87 | 2400210 | 7.30 | 1612617 | 15.94 |
| | EPA SAMPLE No. | | | | | | |
| 01 | VSTD025FH | 4877195 | 12.37 | 4800420 | 7.80 | 3225234 | 16.44 |
| 02 | VBLKFH | 5726268 | 12.37 | 5366570 | 7.80 | 3362017 | 16.44 |
| 03 | E2SJ5 | 5930942 | 12.36 | 5240861 | 7.79 | 2945823 | 16.43 |
| 04 | E2SJ1 | 4913383 | 12.36 | 4993813 | 7.79 | 2179208 | 16.43 |
| 05 | E2SJ3 | 5698311 | 12.36 | 5475438 | 7.79 | 2842135 | 16.43 |
| 06 | VHBLK01 | 6290657 | 12.36 | 5395702 | 7.79 | 3544250 | 16.43 |
| 07 | VSTD025FJ | 4056305 | 12.36 | 3952828 | 7.79 | 2475983 | 16.43 |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (CBZ) = Chlorobenzene-d5

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SG2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.01

Sample wt/vol: 6.100 (g/mL) G Lab File ID: A32353

Level: (TRACE/LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 17 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 4.9 | U |
| 74-87-3 | Chloromethane | 4.9 | U |
| 75-01-4 | Vinyl chloride | 4.9 | U |
| 74-83-9 | Bromomethane | 4.9 | U |
| 75-00-3 | Chloroethane | 4.9 | U |
| 75-69-4 | Trichlorofluoromethane | 4.9 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.9 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.9 | U |
| 67-64-1 | Acetone | 9.9 | U |
| 75-15-0 | Carbon disulfide | 4.9 | U |
| 79-20-9 | Methyl acetate | 4.9 | U |
| 75-09-2 | Methylene chloride | 4.8 ~~3.9~~ | ~~JB~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.9 | U |
| 1634-04-4 | Methyl tert-butyl ether | 4.9 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.9 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 4.9 | U |
| 78-93-3 | 2-Butanone | 9.9 | U |
| 74-97-5 | Bromochloromethane | 4.9 | U |
| 67-66-3 | Chloroform | 4.9 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 4.9 | U |
| 110-82-7 | Cyclohexane | 4.9 | U |
| 56-23-5 | Carbon tetrachloride | 4.9 | U |
| 71-43-2 | Benzene | 4.9 | U |
| 107-06-2 | 1,2-Dichloroethane | 4.9 | U |
| 123-91-1 | 1,4-Dioxane | 99 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SG2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.01

Sample wt/vol: 6.100 (g/mL) G Lab File ID: A32353

Level: (TRACE/LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 17 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 4.9 | U |
| 108-87-2 | Methylcyclohexane | 4.9 | U |
| 78-87-5 | 1,2-Dichloropropane | 4.9 | U |
| 75-27-4 | Bromodichloromethane | 4.9 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.9 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 9.9 | U |
| 108-88-3 | Toluene | 4.9 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.9 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.9 | U |
| 127-18-4 | Tetrachloroethene | 4.9 | U |
| 591-78-6 | 2-Hexanone | 9.9 | U |
| 124-48-1 | Dibromochloromethane | 4.9 | U |
| 106-93-4 | 1,2-Dibromoethane | 4.9 | U |
| 108-90-7 | Chlorobenzene | 4.9 | U |
| 100-41-4 | Ethylbenzene | 4.9 | U |
| 95-47-6 | o-Xylene | 4.9 | U |
| 179601-23-1 | m,p-Xylene | 4.9 | U |
| 100-42-5 | Styrene | 4.9 | U |
| 75-25-2 | Bromoform | 4.9 | U |
| 98-82-8 | Isopropylbenzene | 4.9 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.9 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 4.9 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 4.9 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 4.9 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 4.9 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.9 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.9 | U |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2SG2

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.01

Sample wt/vol: 6.100 (g/mL) G Lab File ID: A32353

Level: (TRACE or LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 17 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

DRC 12-18-12

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| Keep 01 | | Unknown-01 | 4.80 | 36 | J |
| 02 | | Unknown-02 | 6.00 | 58 | J |
| alkane 03 | | ~~Unknown-03~~ | ~~6.15~~ | ~~210~~ | ~~J~~ U |
| 04 | | ~~Unknown-04~~ | ~~6.63~~ | ~~51~~ | ~~J~~ U Keep |
| 05 | | Unknown-05 | 7.84 | 38 | J |
| 06 | | Unknown-06 | 7.93 | 62 | J |
| 07 | | Unknown-07 | 8.16 | 42 | J |
| 08 | | Unknown-08 | 8.74 | 56 | J |
| alkane 09 | ~~006876-23-9~~ | ~~Cyclohexane, 1,2 dimethyl , t~~ | ~~9.32~~ | ~~35~~ | ~~NJ~~ U |
| MB 10 | | ~~Unknown-09~~ | ~~9.56~~ | ~~44~~ | ~~J~~ U |
| 11 | | Unknown-10 | 9.63 | 34 | J |
| alkane 12 | ~~000638-04-0~~ | ~~Cyclohexane, 1,3 dimethyl , c~~ | ~~10.11~~ | ~~44~~ | ~~NJ~~ U |
| 13 | | Unknown-11 | 10.49 | 35 | J |
| alkane 14 | ~~000926-82-9~~ | ~~Heptane, 3,5 dimethyl~~ | ~~10.85~~ | ~~99~~ | ~~NJ~~ U |
| 15 | | Unknown-12 | 11.06 | 39 | J |
| alkane 16 | ~~000921-47-1~~ | ~~Hexane, 2,3,4 trimethyl~~ | ~~11.57~~ | ~~77~~ | ~~NJ~~ U |
| 17 | | Unknown-13 | 11.78 | 88 | J |
| 18 | | Unknown-14 | 14.05 | 38 | J |
| 19 | | Unknown-15 | 14.22 | 35 | J |
| 20 | 001074-43-7 | Benzene, 1-methyl-3-propyl- | 16.89 | 180 | NJ |
| 21 | 002085-88-3 | Oxirane, 2-methyl-2-phenyl- | 16.96 | 75 | NJ |
| 22 | 001074-55-1 | Benzene, 1-methyl-4-propyl- | 17.36 | 55 | NJ |
| 23 | 002870-04-4 | Benzene, 2-ethyl-1,3-dimethyl | 17.52 | 100 | NJ |
| 24 | 000874-41-9 | Benzene, 1-ethyl-2,4-dimethyl | 17.69 | 110 | NJ |
| 25 | 000095-93-2 | Benzene, 1,2,4,5-tetramethyl- | 18.44 | 57 | NJ |
| 26 | 000527-84-4 | Benzene, 1-ethyl-2-(1-methyle | 18.53 | 58 | NJ |
| 27 | | Unknown-16 | 18.96 | 38 | J |
| 28 | 002870-04-4 | Benzene, 2-ethyl-1,3-dimethyl | 19.28 | 50 | NJ |
| 29 | 001595-16-0 | Benzene, 1-methyl-4-(1-methyl | 19.43 | 33 | NJ |
| 30 | | Unknown-17 | 19.94 | 36 | J |
| | E966796[1] | Total Alkanes | N/A | | |

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SG3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.02

Sample wt/vol: 6.200 (g/mL) G Lab File ID: A32343

Level: (TRACE/LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 9.0 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 4.4 | U |
| 74-87-3 | Chloromethane | 4.4 | U |
| 75-01-4 | Vinyl chloride | 4.4 | U |
| 74-83-9 | Bromomethane | 4.4 | U |
| 75-00-3 | Chloroethane | 4.4 | U |
| 75-69-4 | Trichlorofluoromethane | 4.4 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.4 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.4 | U |
| 67-64-1 | Acetone | 8.9 | U |
| 75-15-0 | Carbon disulfide | 4.4 | U |
| 79-20-9 | Methyl acetate | 4.4 | U |
| 75-09-2 | Methylene chloride | 8.8 ~~4.4~~ | ~~JB~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.4 | U |
| 1634-04-4 | Methyl tert-butyl ether | 4.4 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.4 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 4.4 | U |
| 78-93-3 | 2-Butanone | 8.9 | U |
| 74-97-5 | Bromochloromethane | 4.4 | U |
| 67-66-3 | Chloroform | 4.4 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 4.4 | U |
| 110-82-7 | Cyclohexane | 4.4 | U |
| 56-23-5 | Carbon tetrachloride | 4.4 | U |
| 71-43-2 | Benzene | 4.4 | U |
| 107-06-2 | 1,2-Dichloroethane | 4.4 | U |
| 123-91-1 | 1,4-Dioxane | 89 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SG3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.02

Sample wt/vol: 6.200 (g/mL) G Lab File ID: A32343

Level: (TRACE/LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 9.0 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 4.4 | U |
| 108-87-2 | Methylcyclohexane | 4.4 | U |
| 78-87-5 | 1,2-Dichloropropane | 4.4 | U |
| 75-27-4 | Bromodichloromethane | 4.4 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.4 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 8.9 | U |
| 108-88-3 | Toluene | 4.4 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.4 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.4 | U |
| 127-18-4 | Tetrachloroethene | 4.4 | U |
| 591-78-6 | 2-Hexanone | 8.9 | U |
| 124-48-1 | Dibromochloromethane | 4.4 | U |
| 106-93-4 | 1,2-Dibromoethane | 4.4 | U |
| 108-90-7 | Chlorobenzene | 4.4 | U |
| 100-41-4 | Ethylbenzene | 4.4 | U |
| 95-47-6 | o-Xylene | 4.4 | U |
| 179601-23-1 | m,p-Xylene | 4.4 | U |
| 100-42-5 | Styrene | 4.4 | U |
| 75-25-2 | Bromoform | 4.4 | U |
| 98-82-8 | Isopropylbenzene | 4.4 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.4 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 4.4 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 4.4 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 4.4 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 4.4 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.4 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.4 | U |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2SG3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.02

Sample wt/vol: 6.200 (g/mL) G Lab File ID: A32343

Level: (TRACE or LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 9.0 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

DRC 12-18-12

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | ~~Unknown 01~~ | ~~9.56~~ | ~~71~~ | ~~JB~~ U |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SG4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.03

Sample wt/vol: 5.900 (g/mL) G Lab File ID: A32344

Level: (TRACE/LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 20 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 5.3 | U |
| 74-87-3 | Chloromethane | 5.3 | U |
| 75-01-4 | Vinyl chloride | 5.3 | U |
| 74-83-9 | Bromomethane | 5.3 | U |
| 75-00-3 | Chloroethane | 5.3 | U |
| 75-69-4 | Trichlorofluoromethane | 5.3 | U |
| 75-35-4 | 1,1-Dichloroethene | 5.3 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.3 | U |
| 67-64-1 | Acetone | 11 | U |
| 75-15-0 | Carbon disulfide | 5.3 | U |
| 79-20-9 | Methyl acetate | 5.3 | U |
| 75-09-2 | Methylene chloride | 11 ~~4.9~~ | ~~JB~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 5.3 | U |
| 1634-04-4 | Methyl tert-butyl ether | 5.3 | U |
| 75-34-3 | 1,1-Dichloroethane | 5.3 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 5.3 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 74-97-5 | Bromochloromethane | 5.3 | U |
| 67-66-3 | Chloroform | 5.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5.3 | U |
| 110-82-7 | Cyclohexane | 5.3 | U |
| 56-23-5 | Carbon tetrachloride | 5.3 | U |
| 71-43-2 | Benzene | 5.3 | U |
| 107-06-2 | 1,2-Dichloroethane | 5.3 | U |
| 123-91-1 | 1,4-Dioxane | 110 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SG4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.03

Sample wt/vol: 5.900 (g/mL) G Lab File ID: A32344

Level: (TRACE/LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 20 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.3 | U |
| 108-87-2 | Methylcyclohexane | 5.3 | U |
| 78-87-5 | 1,2-Dichloropropane | 5.3 | U |
| 75-27-4 | Bromodichloromethane | 5.3 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.3 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 11 | U |
| 108-88-3 | Toluene | 5.3 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5.3 | U |
| 127-18-4 | Tetrachloroethene | 5.3 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 5.3 | U |
| 106-93-4 | 1,2-Dibromoethane | 5.3 | U |
| 108-90-7 | Chlorobenzene | 5.3 | U |
| 100-41-4 | Ethylbenzene | 5.3 | U |
| 95-47-6 | o-Xylene | 5.3 | U |
| 179601-23-1 | m,p-Xylene | 5.3 | U |
| 100-42-5 | Styrene | 5.3 | U |
| 75-25-2 | Bromoform | 5.3 | U |
| 98-82-8 | Isopropylbenzene | 5.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5.3 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5.3 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.3 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.3 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.3 | U |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2SG4

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.03

Sample wt/vol: 5.900 (g/mL) G Lab File ID: A32344

Level: (TRACE or LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 20 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

DRL 12-18-12

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | ~~Unknown 01~~ | ~~9.57~~ | ~~92~~ | ~~J~~ 4 |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SG4MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.03MS

Sample wt/vol: 5.700 (g/mL) G Lab File ID: A32347

Level: (TRACE/LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 20 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 5.5 | U |
| 74-87-3 | Chloromethane | 5.5 | U |
| 75-01-4 | Vinyl chloride | 5.5 | U |
| 74-83-9 | Bromomethane | 5.5 | U |
| 75-00-3 | Chloroethane | 5.5 | U |
| 75-69-4 | Trichlorofluoromethane | 5.5 | U |
| 75-35-4 | 1,1-Dichloroethene | 34 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.5 | U |
| 67-64-1 | Acetone | 11 | U |
| 75-15-0 | Carbon disulfide | 5.5 | U |
| 79-20-9 | Methyl acetate | 5.5 | U |
| 75-09-2 | Methylene chloride | 11 ~~3.9~~ | ~~JB~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 5.5 | U |
| 1634-04-4 | Methyl tert-butyl ether | 5.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 5.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 5.5 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 74-97-5 | Bromochloromethane | 5.5 | U |
| 67-66-3 | Chloroform | 5.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5.5 | U |
| 110-82-7 | Cyclohexane | 5.5 | U |
| 56-23-5 | Carbon tetrachloride | 5.5 | U |
| 71-43-2 | Benzene | 35 | |
| 107-06-2 | 1,2-Dichloroethane | 5.5 | U |
| 123-91-1 | 1,4-Dioxane | 110 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SG4MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.03MS

Sample wt/vol: 5.700 (g/mL) G Lab File ID: A32347

Level: (TRACE/LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 20 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 33 | |
| 108-87-2 | Methylcyclohexane | 5.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 5.5 | U |
| 75-27-4 | Bromodichloromethane | 5.5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.5 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 11 | U |
| 108-88-3 | Toluene | 40 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5.5 | U |
| 127-18-4 | Tetrachloroethene | 5.5 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 5.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 5.5 | U |
| 108-90-7 | Chlorobenzene | 39 | |
| 100-41-4 | Ethylbenzene | 5.5 | U |
| 95-47-6 | o-Xylene | 5.5 | U |
| 179601-23-1 | m,p-Xylene | 5.5 | U |
| 100-42-5 | Styrene | 5.5 | U |
| 75-25-2 | Bromoform | 5.5 | U |
| 98-82-8 | Isopropylbenzene | 5.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5.5 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.5 | U |

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SG4MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.03MSD

Sample wt/vol: 5.800 (g/mL) G Lab File ID: A32348

Level: (TRACE/LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 20 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 5.4 | U |
| 74-87-3 | Chloromethane | 5.4 | U |
| 75-01-4 | Vinyl chloride | 5.4 | U |
| 74-83-9 | Bromomethane | 5.4 | U |
| 75-00-3 | Chloroethane | 5.4 | U |
| 75-69-4 | Trichlorofluoromethane | 5.4 | U |
| 75-35-4 | 1,1-Dichloroethene | 41 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.4 | U |
| 67-64-1 | Acetone | 11 | U |
| 75-15-0 | Carbon disulfide | 5.4 | U |
| 79-20-9 | Methyl acetate | 5.4 | U |
| 75-09-2 | Methylene chloride | 11 ~~8.8~~ ~~4.4~~ | ~~JB~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 5.4 | U |
| 1634-04-4 | Methyl tert-butyl ether | 5.4 | U |
| 75-34-3 | 1,1-Dichloroethane | 5.4 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 5.4 | U |
| 78-93-3 | 2-Butanone | 11 | U |
| 74-97-5 | Bromochloromethane | 5.4 | U |
| 67-66-3 | Chloroform | 5.4 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5.4 | U |
| 110-82-7 | Cyclohexane | 5.4 | U |
| 56-23-5 | Carbon tetrachloride | 5.4 | U |
| 71-43-2 | Benzene | 40 | |
| 107-06-2 | 1,2-Dichloroethane | 5.4 | U |
| 123-91-1 | 1,4-Dioxane | 110 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SG4MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.03MSD

Sample wt/vol: 5.800 (g/mL) G Lab File ID: A32348

Level: (TRACE/LOW/MED) LOW Date Received: 10/31/2012

% Moisture: not dec. 20 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 39 | |
| 108-87-2 | Methylcyclohexane | 5.4 | U |
| 78-87-5 | 1,2-Dichloropropane | 5.4 | U |
| 75-27-4 | Bromodichloromethane | 5.4 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5.4 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 11 | U |
| 108-88-3 | Toluene | 45 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 5.4 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 5.4 | U |
| 127-18-4 | Tetrachloroethene | 5.4 | U |
| 591-78-6 | 2-Hexanone | 11 | U |
| 124-48-1 | Dibromochloromethane | 5.4 | U |
| 106-93-4 | 1,2-Dibromoethane | 5.4 | U |
| 108-90-7 | Chlorobenzene | 44 | |
| 100-41-4 | Ethylbenzene | 5.4 | U |
| 95-47-6 | o-Xylene | 5.4 | U |
| 179601-23-1 | m,p-Xylene | 5.4 | U |
| 100-42-5 | Styrene | 5.4 | U |
| 75-25-2 | Bromoform | 5.4 | U |
| 98-82-8 | Isopropylbenzene | 5.4 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5.4 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 5.4 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 5.4 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 5.4 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 5.4 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.4 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.4 | U |

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SH1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.01

Sample wt/vol: 4.300 (g/mL) G Lab File ID: A32349

Level: (TRACE/LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 15 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 6.8 | U |
| 74-87-3 | Chloromethane | 6.8 | U |
| 75-01-4 | Vinyl chloride | 6.8 | U |
| 74-83-9 | Bromomethane | 6.8 | U |
| 75-00-3 | Chloroethane | 6.8 | U |
| 75-69-4 | Trichlorofluoromethane | 6.8 | U |
| 75-35-4 | 1,1-Dichloroethene | 6.8 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 6.8 | U |
| 67-64-1 | Acetone | 14 | U |
| 75-15-0 | Carbon disulfide | 6.8 | U |
| 79-20-9 | Methyl acetate | 6.8 | U |
| 75-09-2 | Methylene chloride | 14 ~~6.3~~ | ~~JB~~ LI |
| 156-60-5 | trans-1,2-Dichloroethene | 6.8 | U |
| 1634-04-4 | Methyl tert-butyl ether | 6.8 | U |
| 75-34-3 | 1,1-Dichloroethane | 6.8 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 6.8 | U |
| 78-93-3 | 2-Butanone | 14 | U |
| 74-97-5 | Bromochloromethane | 6.8 | U |
| 67-66-3 | Chloroform | 6.8 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 6.8 | U |
| 110-82-7 | Cyclohexane | 6.8 | U |
| 56-23-5 | Carbon tetrachloride | 6.8 | U |
| 71-43-2 | Benzene | 6.8 | U |
| 107-06-2 | 1,2-Dichloroethane | 6.8 | U |
| 123-91-1 | 1,4-Dioxane | 140 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SH1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.01

Sample wt/vol: 4.300 (g/mL) G Lab File ID: A32349

Level: (TRACE/LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 15 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 29 | |
| 108-87-2 | Methylcyclohexane | 6.8 | U |
| 78-87-5 | 1,2-Dichloropropane | 6.8 | U |
| 75-27-4 | Bromodichloromethane | 6.8 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.8 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 14 | U |
| 108-88-3 | Toluene | 6.8 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 6.8 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 6.8 | U |
| 127-18-4 | Tetrachloroethene | 39 | |
| 591-78-6 | 2-Hexanone | 14 | U |
| 124-48-1 | Dibromochloromethane | 6.8 | U |
| 106-93-4 | 1,2-Dibromoethane | 6.8 | U |
| 108-90-7 | Chlorobenzene | 6.8 | U |
| 100-41-4 | Ethylbenzene | 6.8 | U |
| 95-47-6 | o-Xylene | 6.8 | U |
| 179601-23-1 | m,p-Xylene | 6.8 | U |
| 100-42-5 | Styrene | 6.8 | U |
| 75-25-2 | Bromoform | 6.8 | U |
| 98-82-8 | Isopropylbenzene | 6.8 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 6.8 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 6.8 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 6.8 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 6.8 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 6.8 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 6.8 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 6.8 | U |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2SH1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.01

Sample wt/vol: 4.300 (g/mL) G Lab File ID: A32349

Level: (TRACE or LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 15 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | ~~Unknown-01~~ | ~~9.57~~ | ~~92~~ | ~~J~~ U |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

[1] EPA-designated Registry Number.

DRC 12-18-12

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SH3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.02

Sample wt/vol: 6.100 (g/mL) G Lab File ID: A32355

Level: (TRACE/LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 11 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 4.6 | U |
| 74-87-3 | Chloromethane | 4.6 | U |
| 75-01-4 | Vinyl chloride | 4.6 | U |
| 74-83-9 | Bromomethane | 4.6 | U |
| 75-00-3 | Chloroethane | 4.6 | U |
| 75-69-4 | Trichlorofluoromethane | 4.6 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.6 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.6 | U |
| 67-64-1 | Acetone | 9.2 | U |
| 75-15-0 | Carbon disulfide | 4.6 | U |
| 79-20-9 | Methyl acetate | 4.6 | U |
| 75-09-2 | Methylene chloride | 9.2 ~~9.0~~ ~~4.5~~ | ~~JB~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.6 | U |
| 1634-04-4 | Methyl tert-butyl ether | 4.6 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.6 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 4.6 | U |
| 78-93-3 | 2-Butanone | 9.2 | U |
| 74-97-5 | Bromochloromethane | 4.6 | U |
| 67-66-3 | Chloroform | 4.6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 4.6 | U |
| 110-82-7 | Cyclohexane | 4.6 | U |
| 56-23-5 | Carbon tetrachloride | 4.6 | U |
| 71-43-2 | Benzene | 4.6 | U |
| 107-06-2 | 1,2-Dichloroethane | 4.6 | U |
| 123-91-1 | 1,4-Dioxane | 92 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SH3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.02

Sample wt/vol: 6.100 (g/mL) G Lab File ID: A32355

Level: (TRACE/LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 11 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 3.0 | J |
| 108-87-2 | Methylcyclohexane | 4.6 | U |
| 78-87-5 | 1,2-Dichloropropane | 4.6 | U |
| 75-27-4 | Bromodichloromethane | 4.6 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.6 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 9.2 | U |
| 108-88-3 | Toluene | 4.6 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.6 | U |
| 127-18-4 | Tetrachloroethene | 4.6 | U |
| 591-78-6 | 2-Hexanone | 9.2 | U |
| 124-48-1 | Dibromochloromethane | 4.6 | U |
| 106-93-4 | 1,2-Dibromoethane | 4.6 | U |
| 108-90-7 | Chlorobenzene | 4.6 | U |
| 100-41-4 | Ethylbenzene | 4.6 | U |
| 95-47-6 | o-Xylene | 4.6 | U |
| 179601-23-1 | m,p-Xylene | 4.6 | U |
| 100-42-5 | Styrene | 4.6 | U |
| 75-25-2 | Bromoform | 4.6 | U |
| 98-82-8 | Isopropylbenzene | 4.6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.6 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 4.6 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 4.6 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 4.6 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 4.6 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.6 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.6 | U |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2SH3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.02

Sample wt/vol: 6.100 (g/mL) G Lab File ID: A32355

Level: (TRACE or LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 11 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | ~~Unknown 01~~ | ~~9.57~~ | ~~75~~ | ~~J~~ U |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

[1] EPA-designated Registry Number.

DRC 12-18-12

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SH5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.03

Sample wt/vol: 6.000 (g/mL) G Lab File ID: A32351

Level: (TRACE/LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 10 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 4.6 | U |
| 74-87-3 | Chloromethane | 4.6 | U |
| 75-01-4 | Vinyl chloride | 4.6 | U |
| 74-83-9 | Bromomethane | 4.6 | U |
| 75-00-3 | Chloroethane | 4.6 | U |
| 75-69-4 | Trichlorofluoromethane | 4.6 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.6 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.6 | U |
| 67-64-1 | Acetone | 9.3 | U |
| 75-15-0 | Carbon disulfide | 4.6 | U |
| 79-20-9 | Methyl acetate | 4.6 | U |
| 75-09-2 | Methylene chloride | 9.2 ~~4.7~~ | ~~B~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.6 | U |
| 1634-04-4 | Methyl tert-butyl ether | 4.6 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.6 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 4.6 | U |
| 78-93-3 | 2-Butanone | 9.3 | U |
| 74-97-5 | Bromochloromethane | 4.6 | U |
| 67-66-3 | Chloroform | 4.6 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 4.6 | U |
| 110-82-7 | Cyclohexane | 4.6 | U |
| 56-23-5 | Carbon tetrachloride | 4.6 | U |
| 71-43-2 | Benzene | 4.6 | U |
| 107-06-2 | 1,2-Dichloroethane | 4.6 | U |
| 123-91-1 | 1,4-Dioxane | 93 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SH5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.03

Sample wt/vol: 6.000 (g/mL) G Lab File ID: A32351

Level: (TRACE/LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 10 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 11 | |
| 108-87-2 | Methylcyclohexane | 4.6 | U |
| 78-87-5 | 1,2-Dichloropropane | 4.6 | U |
| 75-27-4 | Bromodichloromethane | 4.6 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.6 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 9.3 | U |
| 108-88-3 | Toluene | 4.6 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.6 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.6 | U |
| 127-18-4 | Tetrachloroethene | 4.6 | U |
| 591-78-6 | 2-Hexanone | 9.3 | U |
| 124-48-1 | Dibromochloromethane | 4.6 | U |
| 106-93-4 | 1,2-Dibromoethane | 4.6 | U |
| 108-90-7 | Chlorobenzene | 4.6 | U |
| 100-41-4 | Ethylbenzene | 4.6 | U |
| 95-47-6 | o-Xylene | 4.6 | U |
| 179601-23-1 | m,p-Xylene | 4.6 | U |
| 100-42-5 | Styrene | 4.6 | U |
| 75-25-2 | Bromoform | 4.6 | U |
| 98-82-8 | Isopropylbenzene | 4.6 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.6 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 4.6 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 4.6 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 4.6 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 4.6 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.6 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.6 | U |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2SH5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.03

Sample wt/vol: 6.000 (g/mL) G Lab File ID: A32351

Level: (TRACE or LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 10 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

DRC 12-18-12

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | ~~Unknown 01~~ | ~~9.57~~ | ~~64~~ | ~~J~~ U |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SH7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.04

Sample wt/vol: 7.300 (g/mL) G Lab File ID: A32356

Level: (TRACE/LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 2.0 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 3.5 | U |
| 74-87-3 | Chloromethane | 3.5 | U |
| 75-01-4 | Vinyl chloride | 3.5 | U |
| 74-83-9 | Bromomethane | 3.5 | U |
| 75-00-3 | Chloroethane | 3.5 | U |
| 75-69-4 | Trichlorofluoromethane | 3.5 | U |
| 75-35-4 | 1,1-Dichloroethene | 3.5 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 3.5 | U |
| 67-64-1 | Acetone | 7.0 | U |
| 75-15-0 | Carbon disulfide | 3.5 | U |
| 79-20-9 | Methyl acetate | 3.5 | U |
| 75-09-2 | Methylene chloride | 7.0 ~~3.7~~ | ~~B~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 3.5 | U |
| 1634-04-4 | Methyl tert-butyl ether | 3.5 | U |
| 75-34-3 | 1,1-Dichloroethane | 3.5 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 3.5 | U |
| 78-93-3 | 2-Butanone | 7.0 | U |
| 74-97-5 | Bromochloromethane | 3.5 | U |
| 67-66-3 | Chloroform | 3.5 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 3.5 | U |
| 110-82-7 | Cyclohexane | 3.5 | U |
| 56-23-5 | Carbon tetrachloride | 3.5 | U |
| 71-43-2 | Benzene | 3.5 | U |
| 107-06-2 | 1,2-Dichloroethane | 3.5 | U |
| 123-91-1 | 1,4-Dioxane | 70 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SH7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.04

Sample wt/vol: 7.300 (g/mL) G Lab File ID: A32356

Level: (TRACE/LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 2.0 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 3.5 | U |
| 108-87-2 | Methylcyclohexane | 3.5 | U |
| 78-87-5 | 1,2-Dichloropropane | 3.5 | U |
| 75-27-4 | Bromodichloromethane | 3.5 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 3.5 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 7.0 | U |
| 108-88-3 | Toluene | 3.5 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 3.5 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 3.5 | U |
| 127-18-4 | Tetrachloroethene | 3.5 | U |
| 591-78-6 | 2-Hexanone | 7.0 | U |
| 124-48-1 | Dibromochloromethane | 3.5 | U |
| 106-93-4 | 1,2-Dibromoethane | 3.5 | U |
| 108-90-7 | Chlorobenzene | 3.5 | U |
| 100-41-4 | Ethylbenzene | 3.5 | U |
| 95-47-6 | o-Xylene | 3.5 | U |
| 179601-23-1 | m,p-Xylene | 3.5 | U |
| 100-42-5 | Styrene | 3.5 | U |
| 75-25-2 | Bromoform | 3.5 | U |
| 98-82-8 | Isopropylbenzene | 3.5 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3.5 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 3.5 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 3.5 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 3.5 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 3.5 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.5 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.5 | U |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2SH7

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5266.04

Sample wt/vol: 7.300 (g/mL) G Lab File ID: A32356

Level: (TRACE or LOW/MED) LOW Date Received: 11/01/2012

% Moisture: not dec. 2.0 Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

DRC 12-18-12

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | ~~Unknown 01~~ | ~~9.57~~ | ~~57~~ | ~~J~~ LI |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SJ1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5273.01

Sample wt/vol: 6.300 (g/mL) G Lab File ID: A32371

Level: (TRACE/LOW/MED) LOW Date Received: 11/02/2012

% Moisture: not dec. 55 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 8.8 | U |
| 74-87-3 | Chloromethane | 8.8 | U |
| 75-01-4 | Vinyl chloride | 8.8 | U |
| 74-83-9 | Bromomethane | 8.8 | U |
| 75-00-3 | Chloroethane | 8.8 | U |
| 75-69-4 | Trichlorofluoromethane | 8.8 | U |
| 75-35-4 | 1,1-Dichloroethene | 8.8 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 8.8 | U |
| 67-64-1 | Acetone | 18 | U |
| 75-15-0 | Carbon disulfide | 8.8 | U |
| 79-20-9 | Methyl acetate | 8.8 | U |
| 75-09-2 | Methylene chloride | 18 ~~7.7~~ | ~~JB~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 12 | |
| 1634-04-4 | Methyl tert-butyl ether | 8.8 | U |
| 75-34-3 | 1,1-Dichloroethane | 8.8 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 150 | |
| 78-93-3 | 2-Butanone | 18 | U |
| 74-97-5 | Bromochloromethane | 8.8 | U |
| 67-66-3 | Chloroform | 8.8 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 8.8 | U |
| 110-82-7 | Cyclohexane | 8.8 | U |
| 56-23-5 | Carbon tetrachloride | 8.8 | U |
| 71-43-2 | Benzene | 8.8 | U |
| 107-06-2 | 1,2-Dichloroethane | 8.8 | U |
| 123-91-1 | 1,4-Dioxane | 180 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SJ1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5273.01

Sample wt/vol: 6.300 (g/mL) G Lab File ID: A32371

Level: (TRACE/LOW/MED) LOW Date Received: 11/02/2012

% Moisture: not dec. 55 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 10 | |
| 108-87-2 | Methylcyclohexane | 8.8 | U |
| 78-87-5 | 1,2-Dichloropropane | 8.8 | U |
| 75-27-4 | Bromodichloromethane | 8.8 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 8.8 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 18 | U |
| 108-88-3 | Toluene | 8.8 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 8.8 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 8.8 | U |
| 127-18-4 | Tetrachloroethene | 8.8 | U |
| 591-78-6 | 2-Hexanone | 18 | U |
| 124-48-1 | Dibromochloromethane | 8.8 | U |
| 106-93-4 | 1,2-Dibromoethane | 8.8 | U |
| 108-90-7 | Chlorobenzene | 8.8 | U |
| 100-41-4 | Ethylbenzene | 8.8 | U |
| 95-47-6 | o-Xylene | 8.8 | U |
| 179601-23-1 | m,p-Xylene | 8.8 | U |
| 100-42-5 | Styrene | 8.8 | U |
| 75-25-2 | Bromoform | 8.8 | U |
| 98-82-8 | Isopropylbenzene | 8.8 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 8.8 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 8.8 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8.8 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 8.8 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 8.8 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 8.8 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 8.8 | U |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2SJ1

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5273.01

Sample wt/vol: 6.300 (g/mL) G Lab File ID: A32371

Level: (TRACE or LOW/MED) LOW Date Received: 11/02/2012

% Moisture: not dec. 55 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

DRC 12-18-12

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | ~~Unknown-01~~ | ~~9.57~~ | ~~120~~ | ~~J~~ U |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SJ3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5273.02

Sample wt/vol: 6.100 (g/mL) G Lab File ID: A32372

Level: (TRACE/LOW/MED) LOW Date Received: 11/02/2012

% Moisture: not dec. 53 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 8.7 | U |
| 74-87-3 | Chloromethane | 8.7 | U |
| 75-01-4 | Vinyl chloride | 8.7 | U |
| 74-83-9 | Bromomethane | 8.7 | U |
| 75-00-3 | Chloroethane | 8.7 | U |
| 75-69-4 | Trichlorofluoromethane | 8.7 | U |
| 75-35-4 | 1,1-Dichloroethene | 8.7 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 8.7 | U |
| 67-64-1 | Acetone | 17 | U |
| 75-15-0 | Carbon disulfide | 8.7 | U |
| 79-20-9 | Methyl acetate | 8.7 | U |
| 75-09-2 | Methylene chloride | 17 ~~8.2~~ | ~~JB~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 7.4 | J |
| 1634-04-4 | Methyl tert-butyl ether | 8.7 | U |
| 75-34-3 | 1,1-Dichloroethane | 8.7 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 110 | |
| 78-93-3 | 2-Butanone | 17 | U |
| 74-97-5 | Bromochloromethane | 8.7 | U |
| 67-66-3 | Chloroform | 8.7 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 8.7 | U |
| 110-82-7 | Cyclohexane | 8.7 | U |
| 56-23-5 | Carbon tetrachloride | 8.7 | U |
| 71-43-2 | Benzene | 8.7 | U |
| 107-06-2 | 1,2-Dichloroethane | 8.7 | U |
| 123-91-1 | 1,4-Dioxane | 170 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SJ3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5273.02

Sample wt/vol: 6.100 (g/mL) G Lab File ID: A32372

Level: (TRACE/LOW/MED) LOW Date Received: 11/02/2012

% Moisture: not dec. 53 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 15 | |
| 108-87-2 | Methylcyclohexane | 8.7 | U |
| 78-87-5 | 1,2-Dichloropropane | 8.7 | U |
| 75-27-4 | Bromodichloromethane | 8.7 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 8.7 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 17 | U |
| 108-88-3 | Toluene | 8.7 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 8.7 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 8.7 | U |
| 127-18-4 | Tetrachloroethene | 8.7 | U |
| 591-78-6 | 2-Hexanone | 17 | U |
| 124-48-1 | Dibromochloromethane | 8.7 | U |
| 106-93-4 | 1,2-Dibromoethane | 8.7 | U |
| 108-90-7 | Chlorobenzene | 8.7 | U |
| 100-41-4 | Ethylbenzene | 8.7 | U |
| 95-47-6 | o-Xylene | 8.7 | U |
| 179601-23-1 | m,p-Xylene | 8.7 | U |
| 100-42-5 | Styrene | 8.7 | U |
| 75-25-2 | Bromoform | 8.7 | U |
| 98-82-8 | Isopropylbenzene | 8.7 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 8.7 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 8.7 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 8.7 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 8.7 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 8.7 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 8.7 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 8.7 | U |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2SJ3

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5273.02

Sample wt/vol: 6.100 (g/mL) G Lab File ID: A32372

Level: (TRACE or LOW/MED) LOW Date Received: 11/02/2012

% Moisture: not dec. 53 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 3.70 | 17 | J |
| 02 | | ~~Unknown-02~~ | ~~9.57~~ | ~~120~~ | ~~J~~ U |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

DRC 12-18-12

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SJ5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5273.03

Sample wt/vol: 6.700 (g/mL) G Lab File ID: A32370

Level: (TRACE/LOW/MED) LOW Date Received: 11/02/2012

% Moisture: not dec. 9.0 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 4.1 | U |
| 74-87-3 | Chloromethane | 4.1 | U |
| 75-01-4 | Vinyl chloride | 4.1 | U |
| 74-83-9 | Bromomethane | 4.1 | U |
| 75-00-3 | Chloroethane | 4.1 | U |
| 75-69-4 | Trichlorofluoromethane | 4.1 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.1 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.1 | U |
| 67-64-1 | Acetone | 8.2 | U |
| 75-15-0 | Carbon disulfide | 4.1 | U |
| 79-20-9 | Methyl acetate | 4.1 | U |
| 75-09-2 | Methylene chloride | 8.2 ~~4.4~~ | ~~B~~ U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.1 | U |
| 1634-04-4 | Methyl tert-butyl ether | 4.1 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.1 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 4.1 | U |
| 78-93-3 | 2-Butanone | 8.2 | U |
| 74-97-5 | Bromochloromethane | 4.1 | U |
| 67-66-3 | Chloroform | 4.1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 4.1 | U |
| 110-82-7 | Cyclohexane | 4.1 | U |
| 56-23-5 | Carbon tetrachloride | 4.1 | U |
| 71-43-2 | Benzene | 4.1 | U |
| 107-06-2 | 1,2-Dichloroethane | 4.1 | U |
| 123-91-1 | 1,4-Dioxane | 82 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
E2SJ5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5273.03

Sample wt/vol: 6.700 (g/mL) G Lab File ID: A32370

Level: (TRACE/LOW/MED) LOW Date Received: 11/02/2012

% Moisture: not dec. 9.0 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 0.78 | J |
| 108-87-2 | Methylcyclohexane | 4.1 | U |
| 78-87-5 | 1,2-Dichloropropane | 4.1 | U |
| 75-27-4 | Bromodichloromethane | 4.1 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.1 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 8.2 | U |
| 108-88-3 | Toluene | 4.1 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.1 | U |
| 127-18-4 | Tetrachloroethene | 4.1 | U |
| 591-78-6 | 2-Hexanone | 8.2 | U |
| 124-48-1 | Dibromochloromethane | 4.1 | U |
| 106-93-4 | 1,2-Dibromoethane | 4.1 | U |
| 108-90-7 | Chlorobenzene | 4.1 | U |
| 100-41-4 | Ethylbenzene | 4.1 | U |
| 95-47-6 | o-Xylene | 4.1 | U |
| 179601-23-1 | m,p-Xylene | 4.1 | U |
| 100-42-5 | Styrene | 4.1 | U |
| 75-25-2 | Bromoform | 4.1 | U |
| 98-82-8 | Isopropylbenzene | 4.1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 4.1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 4.1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 4.1 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 4.1 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.1 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.1 | U |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
E2SJ5

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5273.03

Sample wt/vol: 6.700 (g/mL) G Lab File ID: A32370

Level: (TRACE or LOW/MED) LOW Date Received: 11/02/2012

% Moisture: not dec. 9.0 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | ~~Unknown 01~~ | ~~9.57~~ | ~~54~~ | ~~J~~ U |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

DRC 12-18-12

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKFF

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: VBLKFF

Sample wt/vol: 5.000 (g/mL) G Lab File ID: A32342

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | 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 | 10 | U |
| 75-15-0 | Carbon disulfide | 5.0 | U |
| 79-20-9 | Methyl acetate | 5.0 | U |
| 75-09-2 | Methylene chloride | 4.1 | J |
| 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 | 10 | U |
| 74-97-5 | Bromochloromethane | 5.0 | U |
| 67-66-3 | Chloroform | 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U |
| 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 |
| 123-91-1 | 1,4-Dioxane | 100 | U |

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKFF

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: VBLKFF

Sample wt/vol: 5.000 (g/mL) G Lab File ID: A32342

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.0 | U |
| 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 | 10 | 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 | 10 | 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 |
| 95-47-6 | o-Xylene | 5.0 | U |
| 179601-23-1 | m,p-Xylene | 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 |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKFF

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: VBLKFF

Sample wt/vol: 5.000 (g/mL) G Lab File ID: A32342

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/03/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 9.56 | 87 | J |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKFH

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: VBLKFH

Sample wt/vol: 5.000 (g/mL) G Lab File ID: A32362

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | 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 | 10 | U |
| 75-15-0 | Carbon disulfide | 5.0 | U |
| 79-20-9 | Methyl acetate | 5.0 | U |
| 75-09-2 | Methylene chloride | 4.3 | J |
| 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 | 10 | U |
| 74-97-5 | Bromochloromethane | 5.0 | U |
| 67-66-3 | Chloroform | 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U |
| 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 |
| 123-91-1 | 1,4-Dioxane | 100 | U |

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLKFH

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: VBLKFH

Sample wt/vol: 5.000 (g/mL) G Lab File ID: A32362

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.0 | U |
| 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 | 10 | 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 | 10 | 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 |
| 95-47-6 | o-Xylene | 5.0 | U |
| 179601-23-1 | m,p-Xylene | 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 |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKFH

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: VBLKFH

Sample wt/vol: 5.000 (g/mL) G Lab File ID: A32362

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 9.58 | 90 | J |
| 02 | | | | | |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VHBLK01

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.04

Sample wt/vol: 5.000 (g/mL) G Lab File ID: A32373

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | 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 | 10 | U |
| 75-15-0 | Carbon disulfide | 5.0 | U |
| 79-20-9 | Methyl acetate | 5.0 | U |
| 75-09-2 | Methylene chloride | 10 ~~5.0~~ | ~~B~~ U |
| 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 | 10 | U |
| 74-97-5 | Bromochloromethane | 5.0 | U |
| 67-66-3 | Chloroform | 5.0 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 5.0 | U |
| 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 |
| 123-91-1 | 1,4-Dioxane | 100 | U |

DRC 12-18-12

Report 1,4-Dioxane for Low-Medium VOA analysis only

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VHBLK01

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.04

Sample wt/vol: 5.000 (g/mL) G Lab File ID: A32373

Level: (TRACE/LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 10.0 (mL)

| CAS No. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 5.0 | U |
| 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 | 10 | 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 | 10 | 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 |
| 95-47-6 | o-Xylene | 5.0 | U |
| 179601-23-1 | m,p-Xylene | 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 |

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLK01

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW11031

Lab Code: KAP Case No.: 43075 Mod. Ref No.: _____ SDG No.: E2SG2

Matrix: (SOIL/SED/WATER) SOIL Lab Sample ID: S-5263.04

Sample wt/vol: 5.000 (g/mL) G Lab File ID: A32373

Level: (TRACE or LOW/MED) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 11/05/2012

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 1.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Purge Volume: 10.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | ~~Unknown-01~~ | ~~9.57~~ | ~~72~~ | ~~J~~ U |
| 02 | | ~~Unknown-02~~ | ~~9.57~~ | ~~12~~ | ~~J~~ U |
| 03 | | | | | |
| 04 | | | | | |
| 05 | | | | | |
| 06 | | | | | |
| 07 | | | | | |
| 08 | | | | | |
| 09 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | | | |
| 22 | | | | | |
| 23 | | | | | |
| 24 | | | | | |
| 25 | | | | | |
| 26 | | | | | |
| 27 | | | | | |
| 28 | | | | | |
| 29 | | | | | |
| 30 | | | | | |
| | E966796[1] | Total Alkanes | N/A | | |

DRC 12-18-12

[1] EPA-designated Registry Number.

SOM01.2 (6/2007)

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

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group E2SG2 CERCLIS No: IND005510423

Case No: 43075 Site Name/Location WEBB WELL FIELD (IN)

Contractor or EPA Lab: Kap Technologies Data User: IDEM

No of Samples 10 Date Sampled or Date Received: 26 NOV 2012

Have Chain-of-Custody records been received? Yes ✓ No _____
Have traffic reports or packing lists been received? Yes ✓ No _____
If no, are traffic reports 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: 10 No of samples received: _____

Received by: [illegible] Date: 26 NOV 2012

Received by LSSS: [illegible] Date: 26 NOV 2012

Review started: 12-19-12 Reviewer Signature: [illegible]

Total time spent on review: 8 Date review completed: 12-19-12

Copied by A. C. Harvey Date: December 20, 2012

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 [ ] T if OK
Organic Data Complete [ ] Suitable for Intended Purpose [ ] T if OK
Dioxin data Complete [ ] Suitable for Intended Purpose [ ] T if OK
SAS Data Complete [ ] Suitable for Intended Purpose [ ] T if OK

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

_____

_____

Received by Data Mgmt. Coordinator for Files Date: _____

To: mjaworsk, Dan Chesterton
Cc: Alida Roberman/R5/USEPA/US
Bcc: Deborah Connet/R5/USEPA/US
Subject: Webb Well Field - Case 43075
From: Allison Harvey/R5/USEPA/US - Thursday 12/20/2012 02:29 PM

Attached please find the Data Validation deliverables for Webb Well Field - Case 43075 sdg E2SG2. These deliverables are being issued in conjunction with the hardcopy ESAT 5/TechLaw report Controlled Document Number **ESAT5.416.00161**.

43075 E2SG2 TIC Report.rtf 43075 E2SG2 Narrative.doc 43075 E2SG2 Edit History.pdf

43075 E2SG2 Sample Summary.pdf 43075 E2SG2 Superset.xls

Allison Harvey, Organic Data Validation
Techlaw ESAT, Contractor to USEPA
536 South Clark Street, Suite 734
Chicago, IL 60605
phone: 312-353-2960
email: harvey.allison@epa.gov