US EPA RECORDS CENTER REGION 5
542781

TECHLAW, INC.
ESAT REGION V
INTERNAL PEER REVIEW FORM

ENVIRONMENTAL SERVICE ASSISTANCE TEAMS

Current Date: 11/16/2010 Due Date: 11/18/2010

Task Order (TO) No.: **05-2-216** TO Description: Superfund Organic Data Review

TDF No.: 5-216-082 TECHLAW Job No.: **03037.3.16.** 03 05 B5VY.000.082

Case/SAS: 40646 SDG: E2RN9

Task Order Project Officer (TOPO): Richard Byvik

Audit Schedule - Minimum of 1 Auditor

| Author | Date Review Completed | Reviewer's Initial | Hours Spent |
|---|---|---|---|
| Allison Harvey | Full Review | acH | 6 |
| Auditor | Date Audit Completed | Auditor's Initials | Hours Spent |
| Christina Rice | 11/16/10 | CR | 1 |
| | | | |

EDD 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. 05-216<br>TDF No. 5-216-082<br>03037.3.16.03.05.B5VY.000.082 |
|---|---|

| Task Order Project Officer | Richard L Byvik | Phone | 312-353-3114 |
|---|---|---|---|

Superfund Site Name: Webb Well Field, IN

Superfund Site ID #: B5VY LA00

Start Date: 11/09/2010 Completion Date: 11/18/2010
(Cost Estimate 40 hours)

TASK DESCRIPTION:
Perform Organic DAT/MANUAL Review Level 3:

| Case # | SDG # | # of Samples |
|---|---|---|
| 40646 | E2RL9 | 20 water, TVOA |
| 40646 | E2RN6 | 13 water, TVOA |
| 40646 | E2RN9 | 5 soil, VOA |

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 **11/18/2010**.

PO APPROVAL: *Steven Peterson* Date: 11/09/2010

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: Richard L Byvik Date: 11/09/2010

Controlled Document

# ESAT5.216.00157
ack
11-16-10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: October 29, 2010

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

TO: Data User: IDEM
Email: mjaworsk@idem.in.gov

We have reviewed the data for the following case:

SITE Name: Webb Well Field (IN)

Case Number: 40646 SDG Number: E2RN9

Number and Type of Samples: 5 soil Samples (Low/med Volatiles)

Sample Numbers: E2RN9, E2RP4, E2RP6, E2RP7, E2RQ2

Laboratory: Shealy Environmental Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-5J

Case Number: 40646
Site Name: Webb Well Field (IN)

SDG Number: E2RN9
Laboratory: Shealy Environmental

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

Five (5) soil samples labeled E2RN9, E2RP4, E2RP6, E2RP7 and E2RQ2, were shipped to Shealy Environmental located in West Columbia, SC. All samples were collected October 5-6, 2010 and received at the laboratory October 6-7, 2010 intact. One sample, E2RP4, arrived with a cooler temperature of 8°C which is outside the optimum temperature range of 2-6°C. Sample results are not qualified for this deviation.

All samples were analyzed according to CLP SOW SOM01.2 (10/2006) and reviewed according to the NFG for SOM01.2 and the SOP for ESAT 5/TechLaw Validation of Contract Laboratory Program Organic Data (Version 2.4).

Sample E2RQ2 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: 40646
Site Name: Webb Well Field (IN)

SDG Number: E2RN9
Laboratory: Shealy Environmental

## 1. HOLDING TIME

No problems were found.

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

No problems were found.

## 3. CALIBRATION

The following volatile samples are associated with an initial calibration and CCVs with relative response factors (RRFs) outside criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "R".

E2RN9, E2RN9RE, E2RP4, E2RP6, E2RP7, E2RP7RE, E2RQ2, E2RQ2MS, E2RQ2MSD, E2QR2RE, VBLKVF, VBLKVJ, VBLKVN, VBLKVX, VBLKWD, VHBLK01
1,4-Dioxane

The following volatile samples are associated with an initial calibration and CCVs in which a DMC did not meet relative response factor (RRF) criteria. Detected and non-detected compounds are not qualified.

E2RN9, E2RN9RE, E2RP4, E2RP6, E2RP7, E2RP7RE, E2RQ2, E2RQ2MS, E2RQ2MSD, E2QR2RE, VBLKVF, VBLKVJ, VBLKVN, VBLKVX, VBLKWD, VHBLK01
1,4-Dioxane-d8

The following volatile samples are associated with an opening CCV percent difference (%D) outside criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ". Non-detected compounds in sample E2RN9RE are ultimately qualified "R" due to poor internal standard responses.

Vinyl chloride, 1,1-Dichloroethene
E2RP6, E2RP7, E2RQ2, E2RQ2MS, E2RQ2MSD, VBLKVN

1,2,4-Trichlorobenzene
E2RN9RE, E2RP4, VBLKVJ

## 4. BLANKS

No problems were found.

Case Number: 40646
Site Name: Webb Well Field (IN)

SDG Number: E2RN9
Laboratory: Shealy Environmental

## 5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. None of these compounds were detected in the samples. Non-detected compounds are not qualified. Non-detected compounds in sample E2RP7 are ultimately qualified "UJ" because all calibration criteria were not met. Non-detected compounds in samples E2RN9, E2RN9RE and E2PR7RE are ultimately qualified "R" due to poor internal standard responses.

E2RN9
Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Carbon Disulfide, Methyl acetate, Methylene chloride, Methyl tert-butyl ether, 1,1-Dichloroethane, Bromochloromethane, Chloroform, 1,1,1-Trichloroethane, Cyclohexane, Carbon tetrachloride, Benzene, 1,2-Dichloroethane, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, Toluene, Tetrachloroethene, Dibromochloromethane, 1,2-Dibromoethane, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Bromoform, Isopropylbenzene

E2RN9RE
Dichlorofluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Carbon Disulfide, Methyl acetate, Methylene chloride, Methyl tert-butyl ether, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dichloroethane, 1,2-Dibromoethane

E2RP7, E2RQ2
Vinyl chloride

E2RP7RE
Dichlorofluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Carbon Disulfide

The following volatile samples have one or more DMC/SMS 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". Some non-detected compounds in sample E2RQ2RE are ultimately qualified "R" due to poor internal standard responses.

E2RP6, E2RQ2MS
Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E2RQ2RE
Trichlorofluoromethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, Methyl acetate, Methylene chloride, Methyl tert-butyl ether, 1,1-Dichloroethane, Bromochloromethane, Chloroform, 1,1,1-Trichloroethane, Carbon tetrachloride, 1,2-Dichloroethane, Trichloroethene, cis-1,3-Dichloropropene, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, Dibromochloromethane, 1,2-Dibromoethane, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane

The following volatile samples have DMC/SMC recoveries below the expanded lower limit of the criteria window. No compounds were detected in the sample. Non-detected compounds are qualified "R".

E2RN9
1,4-Dioxane, 4-Methyl-2-pentanone, 2-Hexanone

## 6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E2RQ2 was designated by the samplers to be used for laboratory QC, i.e. matrix spike / matrix spike duplicate analyses.

The relative percent difference (RPD) between the following volatile matrix spike and matrix spike duplicate recoveries is outside criteria. No compounds were detected in the unspiked sample, E2RQ2. Non-detected compounds in the unspiked sample, E2RQ2, are qualified "UJ".

E2RQ2MS, E2RQ2MSD
Benzene, Trichloroethene, Toluene, Chlorobenzene

## 6B. LABORATORY CONTROL SAMPLE

Not applicable to this analysis.

## 7. FIELD BLANK AND FIELD DUPLICATE

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

## 8. INTERNAL STANDARDS

The following volatile samples have internal standard are counts that are outside the lower limit of primary criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "R".

E2RN9, E2RN9RE, E2RP7RE
Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, Trichlorofluoromethane, 1,1-Dichloroethene, 1,1,2-Trichloro-1,2,2-trifluoroethane, Acetone, Carbon disulfide, Methyl acetate, Methylene chloride, trans-1,2-Dichloroethene, Methyl tert-butyl ether, 1,1-Dichloroethane, cis-1,2-Dichloroethene, 2-Butanone, Bromochloromethane, Chloroform, 1,1,1-Trichloroethane, Cyclohexane, Carbon tetrachloride, Benzene, 1,2-Dichloroethane, 1,4-Dioxane, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, cis-1,3-Dichloropropene, 4-Methyl-2-pentanone, Toluene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Tetrachloroethene, 2-Hexanone, Dibromochloromethane, 1,2-Dibromoethane, Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E2RP7, E2RQ2, E2RQ2RE
Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

## 9. COMPOUND IDENTIFICATION

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

## 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

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

E2RP4, E2RQ2MS, E2RQ2MSD
Tetrachloroethene

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

Unknown @ 7.890
E2RP6, E2RP7, E2RQ2, E2RQ2RE

## 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

Case Number: 40646
Site Name: Webb Well Field (IN)

SDG Number: E2RN9
Laboratory: Shealy Environmental

## 12. ADDITIONAL INFORMATION

The following volatile samples have compound concentrations which exceed the instruments calibration range. The detected results are qualified "J". No dilution was analyzed due to insufficient sample volume.

E2RN9RE
Tetrachloroethene

The Form 8A – for EPA Sample VST050VI (analyzed 10/08/2010 @ 0755) was missing from the hardcopy data package. The form was manually generated by the Reviewer.

Case Number: 40646
Site Name: Webb Well Field (IN)

SDG Number: E2RN9
Laboratory: Shealy Environmental

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: Allison Harvey / Techlaw-ESAT
Date: November 16, 2010

## Analytical Results (Qualified Data)

Case #: 40646
SDG : E2RN9
Site : WEBB WELLFIELD
Lab. : SHEALY
Reviewer :
Date :

Number of Soil Samples : 5
Number of Water Samples : 0
Number of Sediment Samples : 0

| Sample Number : | E2RN9 | | E2RN9RE | | E2RP4 | | E2RP6 | | E2RP7 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | SB1 | | SB1 | | SB2 | | SB3 | | SB4 | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/5/2010 | | | | 10/5/2010 | | 10/6/2010 | | 10/6/2010 | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | 16 | | 16 | | 9 | | 4 | | 6 | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| **Volatile Compound** | **Result** | **Flag** | **Result** | **Flag** | **Result** | **Flag** | **Result** | **Flag** | **Result** | **Flag** |
| Dichlorodifluoromethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Chloromethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Vinyl chloride | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | UJ | 4.9 | UJ |
| Bromomethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Chloroethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Trichlorofluoromethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 1,1-Dichloroethene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | UJ | 4.9 | UJ |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Acetone | 10 | R | 10 | R | 8.2 | U | 9.9 | U | 9.9 | U |
| Carbon Disulfide | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Methyl acetate | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Methylene chloride | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| trans-1,2-Dichloroethene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Methyl tert-butyl ether | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 1,1-Dichloroethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| cis-1,2-Dichloroethene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 2-Butanone | 10 | R | 10 | R | 8.2 | U | 9.9 | U | 9.9 | U |
| Bromochloromethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Chloroform | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 1,1,1-Trichloroethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Cyclohexane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Carbon tetrachloride | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Benzene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 1,2-Dichloroethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 1,4-Dioxane | 100 | R | 100 | R | 82 | R | 99 | R | 99 | R |
| Trichloroethene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Methylcyclohexane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 1,2-Dichloropropane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Bromodichloromethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| cis-1,3-Dichloropropene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 4-Methyl-2-pentanone | 10 | R | 10 | R | 8.2 | U | 9.9 | U | 9.9 | U |
| Toluene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| trans-1,3-Dichloropropene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |

## Analytical Results (Qualified Data)

Case #: 40646 SDG : E2RN9
Site : WEBB WELLFIELD
Lab. : SHEALY
Reviewer :
Date :

| Sample Number : | E2RN9 | | E2RN9RE | | E2RP4 | | E2RP6 | | E2RP7 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | SB1 | | SB1 | | SB2 | | SB3 | | SB4 | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | 10/5/2010 | | | | 10/5/2010 | | 10/6/2010 | | 10/6/2010 | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | 16 | | 16 | | 9 | | 4 | | 6 | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| 1,1,2-Trichloroethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Tetrachloroethene | 5.0 | R | 220 | J | 2.4 | J | 4.9 | U | 4.9 | U |
| 2-Hexanone | 10 | R | 10 | R | 8.2 | U | 9.9 | U | 9.9 | U |
| Dibromochloromethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 1,2-Dibromoethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Chlorobenzene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | UJ | 4.9 | U |
| Ethylbenzene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| o-Xylene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| m,p-Xylene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Styrene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| Bromoform | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | R |
| Isopropylbenzene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 1,1,2,2-Tetrachloroethane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | U |
| 1,3-Dichlorobenzene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | UJ | 4.9 | R |
| 1,4-Dichlorobenzene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | UJ | 4.9 | R |
| 1,2-Dichlorobenzene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | UJ | 4.9 | R |
| 1,2-Dibromo-3-chloropropane | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | U | 4.9 | R |
| 1,2,4-Trichlorobenzene | 5.0 | R | 5.0 | R | 4.1 | UJ | 4.9 | UJ | 4.9 | R |
| 1,2,3-Trichlorobenzene | 5.0 | R | 5.0 | R | 4.1 | U | 4.9 | UJ | 4.9 | R |

## Analytical Results (Qualified Data)

Case #: 40646 SDG : E2RN9
Site : WEBB WELLFIELD
Lab. : SHEALY
Reviewer :
Date :

| Sample Number : | E2RP7RE | | E2RQ2 | | E2RQ2MS | | E2RQ2MSD | | E2RQ2RE | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | SB4 | | SB5 | | SB5 | | SB5 | | SB5 | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | | | 10/6/2010 | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | 6 | | 10 | | 10 | | 10 | | 10 | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| Chloromethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| Vinyl chloride | 5.0 | R | 4.1 | UJ | 4.1 | UJ | 4.1 | UJ | 4.3 | U |
| Bromomethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| Chloroethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| Trichlorofluoromethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| 1,1-Dichloroethene | 5.0 | R | 4.1 | UJ | 40 | J | 48 | J | 4.3 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| Acetone | 9.9 | R | 8.2 | U | 8.2 | U | 8.3 | U | 8.5 | U |
| Carbon Disulfide | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| Methyl acetate | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| Methylene chloride | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| trans-1,2-Dichloroethene | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| Methyl tert-butyl ether | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| 1,1-Dichloroethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| cis-1,2-Dichloroethene | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| 2-Butanone | 9.9 | R | 8.2 | U | 8.2 | U | 8.3 | U | 8.5 | U |
| Bromochloromethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| Chloroform | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| 1,1,1-Trichloroethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| Cyclohexane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| Carbon tetrachloride | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| Benzene | 5.0 | R | 4.1 | UJ | 40 | | 51 | | 4.3 | U |
| 1,2-Dichloroethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| 1,4-Dioxane | 99 | R | 82 | R | 82 | R | 83 | R | 85 | R |
| Trichloroethene | 5.0 | R | 4.1 | UJ | 37 | | 48 | | 4.3 | UJ |
| Methylcyclohexane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| 1,2-Dichloropropane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| Bromodichloromethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | U |
| cis-1,3-Dichloropropene | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| 4-Methyl-2-pentanone | 9.9 | R | 8.2 | U | 8.2 | U | 8.3 | U | 8.5 | U |
| Toluene | 5.0 | R | 4.1 | UJ | 36 | | 47 | | 4.3 | UJ |
| trans-1,3-Dichloropropene | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |

## Analytical Results (Qualified Data)

Case #: 40646 SDG : E2RN9
Site : WEBB WELLFIELD
Lab. : SHEALY
Reviewer :
Date :

| Sample Number : | E2RP7RE | | E2RQ2 | | E2RQ2MS | | E2RQ2MSD | | E2RQ2RE | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | SB4 | | SB5 | | SB5 | | SB5 | | SB5 | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | | | 10/6/2010 | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | 6 | | 10 | | 10 | | 10 | | 10 | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| **Volatile Compound** | **Result** | **Flag** | **Result** | **Flag** | **Result** | **Flag** | **Result** | **Flag** | **Result** | **Flag** |
| 1,1,2-Trichloroethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| Tetrachloroethene | 5.0 | R | 4.1 | U | 1.4 | J | 1.2 | J | 4.3 | UJ |
| 2-Hexanone | 9.9 | R | 8.2 | U | 8.2 | U | 8.3 | U | 8.5 | U |
| Dibromochloromethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| 1,2-Dibromoethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| Chlorobenzene | 5.0 | R | 4.1 | UJ | 30 | J | 38 | | 4.3 | U |
| Ethylbenzene | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| o-Xylene | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| m,p-Xylene | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| Styrene | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| Bromoform | 5.0 | R | 4.1 | R | 4.1 | U | 4.1 | U | 4.3 | R |
| Isopropylbenzene | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| 1,1,2,2-Tetrachloroethane | 5.0 | R | 4.1 | U | 4.1 | U | 4.1 | U | 4.3 | UJ |
| 1,3-Dichlorobenzene | 5.0 | R | 4.1 | R | 4.1 | UJ | 4.1 | U | 4.3 | R |
| 1,4-Dichlorobenzene | 5.0 | R | 4.1 | R | 4.1 | UJ | 4.1 | U | 4.3 | R |
| 1,2-Dichlorobenzene | 5.0 | R | 4.1 | R | 4.1 | UJ | 4.1 | U | 4.3 | R |
| 1,2-Dibromo-3-chloropropane | 5.0 | R | 4.1 | R | 4.1 | U | 4.1 | U | 4.3 | R |
| 1,2,4-Trichlorobenzene | 5.0 | R | 4.1 | R | 4.1 | UJ | 4.1 | U | 4.3 | R |
| 1,2,3-Trichlorobenzene | 5.0 | R | 4.1 | R | 4.1 | UJ | 4.1 | U | 4.3 | R |

## Analytical Results (Qualified Data)

Case #: 40646 SDG : E2RN9
Site : WEBB WELLFIELD
Lab. : SHEALY
Reviewer :
Date :

| Sample Number : | VBLKVF | | VBLKVJ | | VBLKVN | | VBLKVX | | VBLKWD | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | 0 | | 0 | | 0 | | 0 | | 0 | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Chloromethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Vinyl chloride | 5.0 | U | 5.0 | U | 5.0 | UJ | 5.0 | U | 5.0 | U |
| Bromomethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Chloroethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Trichlorofluoromethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,1-Dichloroethene | 5.0 | U | 5.0 | U | 5.0 | UJ | 5.0 | U | 5.0 | U |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Acetone | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Carbon Disulfide | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Methyl acetate | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Methylene chloride | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| trans-1,2-Dichloroethene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Methyl tert-butyl ether | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,1-Dichloroethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| cis-1,2-Dichloroethene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 2-Butanone | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Bromochloromethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Chloroform | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,1,1-Trichloroethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Cyclohexane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Carbon tetrachloride | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Benzene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,2-Dichloroethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,4-Dioxane | 100 | R | 100 | R | 100 | R | 100 | R | 100 | R |
| Trichloroethene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Methylcyclohexane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,2-Dichloropropane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Bromodichloromethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| cis-1,3-Dichloropropene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 4-Methyl-2-pentanone | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Toluene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| trans-1,3-Dichloropropene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |

## Analytical Results (Qualified Data)

Case #: 40646
Site :
Lab. :
Reviewer :
Date :

SDG : E2RN9
WEBB WELLFIELD
SHEALY

| Sample Number : | VBLKVF | | VBLKVJ | | VBLKVN | | VBLKVX | | VBLKWD | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Soil | | Soil | | Soil | | Soil | | Soil | |
| Units : | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | | ug/Kg | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | 0 | | 0 | | 0 | | 0 | | 0 | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | 1.0 | | 1.0 | | 1.0 | | 1.0 | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| 1,1,2-Trichloroethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Tetrachloroethene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 2-Hexanone | 10 | U | 10 | U | 10 | U | 10 | U | 10 | U |
| Dibromochloromethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,2-Dibromoethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Chlorobenzene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Ethylbenzene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| o-Xylene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| m,p-Xylene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Styrene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Bromoform | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| Isopropylbenzene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,1,2,2-Tetrachloroethane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,3-Dichlorobenzene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,4-Dichlorobenzene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,2-Dichlorobenzene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,2-Dibromo-3-chloropropane | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,2,4-Trichlorobenzene | 5.0 | U | 5.0 | UJ | 5.0 | U | 5.0 | U | 5.0 | U |
| 1,2,3-Trichlorobenzene | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U |

## Analytical Results (Qualified Data)

Case #: 40646 SDG : E2RN9
Site : WEBB WELLFIELD
Lab. : SHEALY
Reviewer :
Date :

| Sample Number : | VHBLK01 | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sampling Location : | | | | | | | | | | |
| Matrix : | Soil | | | | | | | | | |
| Units : | ug/Kg | | | | | | | | | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | 0 | | | | | | | | | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | | | | | | | | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Dichlorodifluoromethane | 5.0 | U | | | | | | | | |
| Chloromethane | 5.0 | U | | | | | | | | |
| Vinyl chloride | 5.0 | U | | | | | | | | |
| Bromomethane | 5.0 | U | | | | | | | | |
| Chloroethane | 5.0 | U | | | | | | | | |
| Trichlorofluoromethane | 5.0 | U | | | | | | | | |
| 1,1-Dichloroethene | 5.0 | U | | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | U | | | | | | | | |
| Acetone | 10 | U | | | | | | | | |
| Carbon Disulfide | 5.0 | U | | | | | | | | |
| Methyl acetate | 5.0 | U | | | | | | | | |
| Methylene chloride | 5.0 | U | | | | | | | | |
| trans-1,2-Dichloroethene | 5.0 | U | | | | | | | | |
| Methyl tert-butyl ether | 5.0 | U | | | | | | | | |
| 1,1-Dichloroethane | 5.0 | U | | | | | | | | |
| cis-1,2-Dichloroethene | 5.0 | U | | | | | | | | |
| 2-Butanone | 10 | U | | | | | | | | |
| Bromochloromethane | 5.0 | U | | | | | | | | |
| Chloroform | 5.0 | U | | | | | | | | |
| 1,1,1-Trichloroethane | 5.0 | U | | | | | | | | |
| Cyclohexane | 5.0 | U | | | | | | | | |
| Carbon tetrachloride | 5.0 | U | | | | | | | | |
| Benzene | 5.0 | U | | | | | | | | |
| 1,2-Dichloroethane | 5.0 | U | | | | | | | | |
| 1,4-Dioxane | 100 | R | | | | | | | | |
| Trichloroethene | 5.0 | U | | | | | | | | |
| Methylcyclohexane | 5.0 | U | | | | | | | | |
| 1,2-Dichloropropane | 5.0 | U | | | | | | | | |
| Bromodichloromethane | 5.0 | U | | | | | | | | |
| cis-1,3-Dichloropropene | 5.0 | U | | | | | | | | |
| 4-Methyl-2-pentanone | 10 | U | | | | | | | | |
| Toluene | 5.0 | U | | | | | | | | |
| trans-1,3-Dichloropropene | 5.0 | U | | | | | | | | |

## Analytical Results (Qualified Data)

Case #: 40646
Site :
Lab. :
Reviewer :
Date :

SDG : E2RN9
WEBB WELLFIELD
SHEALY

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Number : | VHBLK01 | | | | | | | | | |
| Sampling Location : | | | | | | | | | | |
| Matrix : | Soil | | | | | | | | | |
| Units : | ug/Kg | | | | | | | | | |
| Date Sampled : | | | | | | | | | | |
| Time Sampled : | | | | | | | | | | |
| %Moisture : | 0 | | | | | | | | | |
| pH : | | | | | | | | | | |
| Dilution Factor : | 1.0 | | | | | | | | | |
| Volatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| 1,1,2-Trichloroethane | 5.0 | U | | | | | | | | |
| Tetrachloroethene | 5.0 | U | | | | | | | | |
| 2-Hexanone | 10 | U | | | | | | | | |
| Dibromochloromethane | 5.0 | U | | | | | | | | |
| 1,2-Dibromoethane | 5.0 | U | | | | | | | | |
| Chlorobenzene | 5.0 | U | | | | | | | | |
| Ethylbenzene | 5.0 | U | | | | | | | | |
| o-Xylene | 5.0 | U | | | | | | | | |
| m,p-Xylene | 5.0 | U | | | | | | | | |
| Styrene | 5.0 | U | | | | | | | | |
| Bromoform | 5.0 | U | | | | | | | | |
| Isopropylbenzene | 5.0 | U | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | 5.0 | U | | | | | | | | |
| 1,3-Dichlorobenzene | 5.0 | U | | | | | | | | |
| 1,4-Dichlorobenzene | 5.0 | U | | | | | | | | |
| 1,2-Dichlorobenzene | 5.0 | U | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | 5.0 | U | | | | | | | | |
| 1,2,4-Trichlorobenzene | 5.0 | U | | | | | | | | |
| 1,2,3-Trichlorobenzene | 5.0 | U | | | | | | | | |

# National Functional Guidelines Report # 9

16 47 Fri, Oct 29, 2010

Lab SHEALY (Shealy Environmental...) **SDG** E2RN9 **Case** 40646 **Contract** EPW05031 **Region** 5 **DDTID** 103527 **SOW** SOM01.2

## *Tentatively identified Compounds*

VOA_Low_Med Sample=E2RP6 Location=SB3 Matrix=Soil Level=Low

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---|---|---|---|---|---|
| | Unknown-01 | 7.89 | 19 | ug/kg | J |

# National Functional Guidelines Report # 9



**Lab** SHEALY (Shealy Environmental...) **SDG** E2RN9 **Case** 40646 **Contract** EPW05031 **Region** 5 **DDTID** 103527 **SOW** SOM01 2

## *Tentatively identified Compounds*

VOA_Low_Med Sample=E2RP7 Location=SB4 Matrix=Soil Level=Low

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---|---|---|---|---|---|
| | Unknown-01 | 7.89 | 20 | ug/kg | J |

# National Functional Guidelines Report # 9



**Lab** SHEALY (Shealy Environmental. .) **SDG** E2RN9 **Case** 40646 **Contract** EPW05031 **Region** 5 **DDTID** 103527 **SOW** SOM01.2

## *Tentatively identified Compounds*

VOA_Low_Med Sample=E2RQ2 Location=SB5 Matrix=Soil Level=Low

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---|---|---|---|---|---|
| | Unknown-01 | 7.89 | 16 | ug/kg | J |

National Functional Guidelines Report # 9

16 47 Fri, Oct 29, 2010

Lab SHEALY (Shealy Environmental. ) **SDG** E2RN9 **Case** 40646 **Contract** EPW05031 **Region** 5 **DDTID** 103527 **SOW** SOM01.2

## *Tentatively identified Compounds*

VOA_Low_Med Sample=E2RQ2RE Location=No_TR_data Matrix=Soil Level=Low

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---|---|---|---|---|---|
| | Unknown-01 | 7 88 | 12 | ug/kg | J |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 29 Oct 2010

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: Wells Well Field (IN)

CASE NUMBER: 40646 SDG NUMBER: E2RN9

Number and Type of Samples: 5 Soil Samples

Sample Numbers: E2RN9; Q4; Q6-Q7; Q2

Laboratory: Healy Environmental Hrs for Review:

Following are our findings:

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

Contract Laboratory Program

# Sample Delivery Group (SDG) Cover Sheet

| | | | | | |
|---|---|---|---|---|---|
| SDG Number | E2RN9 | Case Number | 40646 | Contract Number | EPW05031 |
| Lab Code | SHEALY | SDG Turnaround | 21-DAY | Delivery CLIN(s) | |

| | | | |
|---|---|---|---|
| First Sample Received in SDG | E2RN9 | Last Sample Received in SDG | E2RQ2 |
| First Sample Receipt Date | 10/06/10 | Last Sample Receipt Date | 10/07/10 |

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 | E2RN9 | Soil | 0037C | N/A | N/A |
| 2 | E2RP4 | Soil | 0037C | N/A | N/A |
| 3 | E2RP6 | Soil | 0037C | N/A | N/A |
| 4 | E2RP7 | Soil | 0037C | N/A | N/A |
| 5 | E2RQ2 | Soil | 0037C | N/A | N/A |

***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 10/13/2010

9

# USEPA Contract Laboratory Program
# Organic Traffic Report & Chain of Custody Record

Case No: 40646 E2RN9
DAS No:
SDG No: E2RL9, E2RN6

| | | Chain of Custody Record | | Sampler Signature: | |
|---|---|---|---|---|---|
| Date Shipped: | 10/5/2010 | Relinquished By | (Date / Time) | Received By | (Date / Time) |
| Carrier Name: | FedEx | 1 [signature] | 10/5/10 9:00pm | | |
| Airbill: | 854390225832 | 2 | | | |
| Shipped to: | Shealy Environmental 106 Vantage Point Drive West Columbia SC 29172 (803) 791-9700 | 3 | | | |
| | | 4 | | [signature] 10/6/10 0920 | |

**For Lab Use Only**

Lab Contract No: EPW05031
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|
| E2RP2 | Ground Water/ Mark Jaworski | M/G | SOM01.2 (21) | 5C129553 (HCL) (1) | GW14 | S: 10/5/2010 14:45 | E2RL9 | OK |
| E2RP3 | Ground Water/ Mark Jaworski | M/G | SOM01.2 (21) | 5C129554 (HCL) (1) | GW15 | S 10/5/2010 14 55 | E2RN6 | Last Sample |
| E2RP4 | Subsurface Soil (>12")/ Mark Jaworski | M/G | SOM01.2 VO (21) | 5C129568 (HCL) (1) | SB2 | S. 10/5/2010 17.20 | E2RN9 | |
| E2RP5 | Ground Water/ Mark Jaworski | M/G | SOM01.2 (21) | 5C129566 (HCL) (1) | GW23 | S: 10/5/2010 18:10 | E2RN6 | |

40646
COPY
ORIGINAL DOCUMENT FILED IN CSF E2RL9
MDY
Signature
10/07/2010
Date

| Shipment for Case Complete?N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 8.0 | Chain of Custody Seal Number: 27844, 27845 |
|---|---|---|---|---|
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? Y / Shipment Iced? Y |

SOM01.2 = Trace Volatiles, SOM01.2 VO = Volatiles

TR Number: 5-420891360-100510-0004

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819, Phone 703/818-4200, Fax 703/818-4602

# USEPA Contract Laboratory Program
## Generic Chain of Custody

**Reference Case** 40646
Client No:
SDG No: E2RN9

**L**

| | |
|---|---|
| Date Shipped: | 10/5/2010 |
| Carrier Name: | FedEx |
| Airbill: | 854390225832 |
| Shipped to: | Shealy Environmental<br>106 Vantage Point Drive<br>West Columbia SC 29172<br>(803) 791-9700 |

**Chain of Custody Record**

| Relinquished By | (Date / Time) | Received By | (Date / Time) |
|---|---|---|---|
| Timothy R Johnson | 10/5/10 9:00pm | | |
| 2 | | | |
| 3 | | | |
| 4 | | [illegible] | 10/6/10 [illegible] |

Sampler Signature:

**For Lab Use Only**

Lab Contract No: EPW05031
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

| SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|
| E2RP4 | Subsurface Soil (>12")/ Mark Jaworski | M/G | PER_SOL (21) | 5C129567 (1) | SB2 | S: 10/5/2010 17:20 | OK |

| Shipment for Case Complete?N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: 8.0 | Chain of Custody Seal Number: 27844, 27845 |
|---|---|---|---|---|
| Analysis Key: PER_SOL = Percent Solids | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? Y | Shipment Iced? Y |

**TR Number: 5-420891360-100510-0003**

**LABORATORY COPY**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

F2V5.1.047 Page 1 of 1

# USEPA Contract Laboratory Program
# Organic Traffic Report & Chain of Custody Record

**Case No:** 40646
DAS No.
SDG No: E2RN9

| | |
|---|---|
| Date Shipped: | 10/5/2010 |
| Carrier Name: | FedEx |
| Airbill: | 854390225821 |
| Shipped to: | Shealy Environmental<br>106 Vantage Point Drive<br>West Columbia SC 29172<br>(803) 791-9700 |

**Chain of Custody Record**

| Relinquished By | (Date / Time) | Received By | (Date / Time) |
|---|---|---|---|
| 1 [signature] | 10/5/10 9:00pm | | |
| 2 | | | |
| 3 | | | |
| 4 | | [signature] | 10/6/10 0920 |

Sampler Signature:

**For Lab Use Only**

Lab Contract No: EPW05031
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition Upon Receipt |
|---|---|---|---|---|---|---|---|---|---|
| E2RN9 | Subsurface Soil (>12")/ Mark Jaworski | M/G | SOM01.2 VO (21) | 5C129549 (HCL) (1) | SB1 | S: 10/5/2010 | 10.05 | | OK |

| Shipment for Case Complete?N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: | Chain of Custody Seal Number: |
|---|---|---|---|---|
| | E2RN4, E2RN6 | [signature] | 5.6 | 27842, 27843 |

| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? ___ | Shipment Iced? ___ |
|---|---|---|---|---|
| SOM01.2 = Trace Volatiles, SOM01.2 VO = Volatiles | | | | |

**TR Number: 5-420891360-100510-0002**

**LABORATORY COPY**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr , Chantilly, VA 20151-3819; Phone 703/818-4200, Fax 703/818-4602

# USEPA Contract Laboratory Program
# Generic Chain of Custody

**Reference Case 40646**
Client No:
SDG No: E2RN9

L

| | | | | | |
|---|---|---|---|---|---|
| Date Shipped: | 10/5/2010 | **Chain of Custody Record** | Sampler Signature: | **For Lab Use Only** | |
| Carrier Name: | FedEx | Relinquished By (Date / Time) | Received By (Date / Time) | Lab Contract No: | EPW05031 |
| Airbill: | 854390225821 | 1 [signature] 10/5/10 9:00pm | | Unit Price: | |
| Shipped to: | Shealy Environmental<br>106 Vantage Point Drive<br>West Columbia SC 29172<br>(803) 791-9700 | 2 | | Transfer To: | |
| | | 3 | | Lab Contract No: | |
| | | 4 | [signature] 10/6/10 0920 | Unit Price: | |

| SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|
| E2RN9 | Subsurface Soil (>12")/ Mark Jaworski | M/G | PER_SOL (21) | 5C129548 (Ice Only) (1) | SB1 | S 10/5/2010 10 05 | OK |

| | | | | |
|---|---|---|---|---|
| Shipment for Case Complete?N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): [signature] | Cooler Temperature Upon Receipt: 5.8 | Chain of Custody Seal Number: 27842, 27843 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | | Custody Seal Intact? Y Shipment Iced? Y |

PER_SOL = Percent Solids

13 of 360

**TR Number: 5-420891360-100510-0001**

**LABORATORY COPY**

**PR provides preliminary results. Requests for preliminary results will increase analytical costs.**
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr , Chantilly, VA 20151-3819, Phone 703/818-4200; Fax 703/818-4602

FZ/5.1.047 Page 1 of 1

# USEPA Contract Laboratory Program
# Organic Traffic Report & Chain of Custody Record

Case No: 40646
DAS No:
SDG No: E2RN6, E2RN9

| | |
|---|---|
| Date Shipped: | 10/6/2010 |
| Carrier Name: | FedEx |
| Airbill: | 854390225843 |
| Shipped to: | Shealy Environmental<br>106 Vantage Point Drive<br>West Columbia SC 29172<br>(803) 791-9700 |

**Chain of Custody Record**

| Relinquished By | (Date / Time) | Received By | (Date / Time) |
|---|---|---|---|
| 1 Timothy R. Johnson | 10/6/10 8:00pm | | |
| 2 | | | |
| 3 | | | |
| 4 | | [illegible] | 10/7/10 0940 |

Sampler Signature.

**For Lab Use Only**

Lab Contract No: EDW05031
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|---|---|
| E2RM7 | Ground Water/ DAN Chesterson | M/G | SOM01 2 (21) | 5C129577 (HCL) (1) | GW28 | S: 10/6/2010 | 8 00 | E2RN6 | OK |
| E2RP6 | Subsurface Soil (>12")/ Mark Jaworski | M/G | SOM01.2 VO (21) | 5C129569 (HCL) (1) | SB3 | S 10/6/2010 | 10:10 | E2RN9 | |
| E2RP7 | Subsurface Soil (>12")/ Mark Jaworski | M/G | SOM01.2 VO (21) | 5C129571 (HCL) (1) | SB4 | S 10/6/2010 | 11:20 | | |
| E2RP8 | Ground Water/ Mark Jaworski | M/G | SOM01.2 (21) | 5C129574 (HCL) (1) | GW25 | S. 10/6/2010 | 14:30 | | |
| E2RP9 | Ground Water/ Mark Jaworski | M/G | SOM01.2 (21) | 5C129576 (HCL) (1) | GW26 | S: 10/6/2010 | 14:45 | E2RN6 | |
| E2RQ0 | Ground Water/ Mark Jaworski | M/G | SOM01.2 (21) | 5C129575 (HCL) (1) | GW27 | S 10/6/2010 | 14:46 | | |
| E2RQ1 | Ground Water/ Mark Jaworski | M/G | SOM01.2 (21) | 5C129573 (HCL) (1) | GW24 | S 10/6/2010 | 15:25 | E2RN9 | |
| E2RQ2 | Subsurface Soil (>12")/ Mark Jaworski | M/G | SOM01.2 VO (21) | 5C129578 (HCL), 5C129579 (HCL), 5C129580 (HCL) (3) | SB5 | S: 10/6/2010 | 17:55 | | |

COPY 40646 E2RN6 E2RN9 10/08/2016

ORIGINAL DOCUMENT

10/08/2016

| Shipment for Case Complete?Y | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: | Chain of Custody Seal Number: |
|---|---|---|---|---|
| | E2RQ2 | Mark Jaworski | 3.2 | 27846, 27847 |

Analysis Key: Concentration: L = Low, M = Low/Medium, H = High Type/Designate: Composite = C, Grab = G Custody Seal Intact? Y Shipment Iced? Y

SOM01 2 = Trace Volatiles, SOM01.2 VO = Volatiles

**TR Number: 5-420891360-100610-0002**

**LABORATORY COPY**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

# USEPA Contract Laboratory Program
# Generic Chain of Custody

**Reference Case** 40646
Client No:
SDG No: E2RN9

**L**

| | |
|---|---|
| Date Shipped: | 10/6/2010 |
| Carrier Name: | FedEx |
| Airbill: | 854390225843 |
| Shipped to: | Shealy Environmental<br>106 Vantage Point Drive<br>West Columbia SC 29172<br>(803) 791-9700 |

**Chain of Custody Record**

| Relinquished By | (Date / Time) | Received By | (Date / Time) |
|---|---|---|---|
| 1 Timothy R Pleasant | 10/6/10 8:00pm | | |
| 2 | | | |
| 3 | | | |
| 4 | | [illegible] | 10/7/10 0940 |

Sampler Signature.

**For Lab Use Only**

Lab Contract No: EPW05031
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

| SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | FOR LAB USE ONLY Sample Condition On Receipt |
|---|---|---|---|---|---|---|---|
| E2RP6 | Subsurface Soil (>12")/ Mark Jaworski | M/G | PER_SOL (21) | 5C129570 (1) | SB3 | S 10/6/2010 10.10 | |
| E2RP7 | Subsurface Soil (>12")/ Mark Jaworski | M/G | PER_SOL (21) | 5C129572 (1) | SB4 | S 10/6/2010 11.20 | |
| E2RQ2 | Subsurface Soil (>12")/ Mark Jaworski | M/G | PER_SOL (21) | 5C129581, 5C129582, 5C129583 (3) | SB5 | S 10/6/2010 17:55 Last sample | |

| Shipment for Case Complete? Y | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): | Cooler Temperature Upon Receipt: | Chain of Custody Seal Number: |
|---|---|---|---|---|
| | E2RQ2 | Mark Jaworski | 3.2 | 27846, 27847 |

| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? Y | Shipment Iced? Y |
|---|---|---|---|---|
| PER_SOL = Percent Solids | | | | |

**TR Number: 5-420891360-100610-0001**

**LABORATORY COPY**

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to. Sample Management Office, Attn Heather Bauer, CSC, 15000 Conference Center Dr , Chantilly, VA 20151-3819, Phone 703/818-4200, Fax 703/818-4600

Shealy Environmental Services, Inc.
Date 10/28/2010

SDG Narrative

**Case 40646**
**SDG E2RN9**
**SOW: SOM01.2**
**Contract Number: EPW05031**

**EPA Sample Numbers**

| EPA Sample Number | VOA Fraction | DL/RE | % Moisture |
|---|---|---|---|
| E2RN9 | Yes | Yes | 15.5 |
| E2RP4 | Yes | No | 9.1 |
| E2RP6 | Yes | No | 4.5 |
| E2RP7 | Yes | Yes | 5.8 |
| E2RQ2 | Yes | Yes | 9.8 |
| E2RQ2MS | Yes | No | n/a |
| E2RQ2MSD | Yes | No | n/a |

| | |
|---|---|
| **Columns** | VOA DB-624, 30m x 0.25mm x 1.4um<br>BNA DB-5MS, 30m x 0.25mm x 0.5um<br>BNA SIM DB-5MS, 30m x 0 25mm x 0.5um |
| **Trap** | OI Trap #10 |

**VOA Equation**

Water sample concentration (ug/L) = $\frac{(A_x)(I_s)(DF)}{(A_{is})(\overline{RRF})(V_o)}$

Soil sample concentration (ug/Kg) = $\frac{(A_x)(I_s)(DF)}{(A_{is})(\overline{RRF})(Ws)(D)}$

Where
$A_x$ is the area of the characteristic ion (EICP) for the compound to be measured.
$A_{is}$ is the area of the characteristic ion (EICP) for the internal standard.
$I_s$ is the amount of internal standard added, in ng.
$\overline{RRF}$ is the mean relative response factor from the initial calibration.
DF is the dilution factor.
$V_o$ is total volume of water purged, in mL.

Ws is the weight of sample added to the purge tube in g.

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

| | |
|---|---|
| **BNA/BNA SIM Equation** | Water sample concentration ug/L = $\frac{(A_x)(I_s)(V_t)(DF)(GPC)}{(A_{is})(\overline{RRF})(V_o)(V_i)}$<br><br>Soil sample concentration (ug/Kg) = $\frac{(A_x)(I_s)(V_t)(DF)(GPC)}{(A_{is})(\overline{RRF})(V_i)(W_s)(D)}$<br><br>Where<br>$A_x$ is the area of the characteristic ion (EICP) for the compound to be measured<br>$A_{is}$ is the area of the characteristic ion (EICP) for the internal standard.<br>$I_s$ is the amount of internal standard added, in ng.<br>$\overline{RRF}$ is the mean relative response factor from the initial calibration<br>DF is the dilution factor.<br>GPC = $V_{in}/V_{out}$: GPC factor<br>$V_{in}$ is the volume of extract loaded onto GPC column<br>$V_{out}$ is the volume of extract collected after GPC cleanup<br>$V_t$ is volume of the concentrated extract in uL. (If no GPC cleanup is performed, then $V_t$ = 1000uL. If GPC cleanup is performed, then $V_t = V_{out}$.).<br>$V_i$ is the volume of the extract injected in uL.<br>$V_o$: Volume of water extracted in mL<br><br>$W_s$ is the weight of sample extracted in g.<br>D= $\frac{100 - \%Moisture}{100}$ |

**Sample Receiving**

The five (5) soil samples in this SDG were received in sealed shipping containers on October 06, 2010. The cooler temperatures associated with these samples were 5.8, 8 0, and 3.2°C

All cooler temperatures are determined using a calibrated Fluke 66 IR thermometer.

Per the SOW QC was required for this SDG E2RQ2 was designated as the quality control sample.

Sample tags were received for this SDG and are included in the data package.

**VOA Fraction**

E2RN9 was analyzed twice. Both runs had all internal standards at -99 percent. The first analysis had nine (9) DMC that were outside of the contracted quality control parameters while the re-analysis had three (3). Both set of data are included in the data package Insufficient sample remained for further analysis.

E2RQ2 had five 95) DMC recoveries that were outside of the contracted quality control parameters. Re-analysis gave a result that had one DMC outside of the expected range. Both set of data are included in the data package. Insufficient sample remained for further analysis.

E2RP7 was re-analyzed when the first analysis had a low recovery of the last internal standard. The reanalysis had all internal standards at -96 percent recovery; possibly due to a poor sample purge. Both set of data are included in the data package. Insufficient sample remained for further analysis.

E2RQ2MS/MSD reported four out of five %RPDs outside of the contracted quality control limits. All recoveries were within range.

The continuing calibration verification (CCV) standard VSTD050VF met the acceptance limits for an opening CCV and served as both an opening CCV as well as a closing CCV. The acceptance criteria

presented on Form VII are of the opening CCV, since those are more stringent. Samples analyzed after this CCV are not part of this SDG and are not presented in Form V.

The continuing calibration verification (CCV) standard VSTD050VI met the acceptance limits for an opening CCV and served as both an opening CCV as well as a closing CCV. The acceptance criteria presented on Form VII are of the opening CCV, since those are more stringent. Samples analyzed before and after this CCV are not part of this SDG and are not presented in Form V.

The continuing calibration verification (CCV) standard VSTD050VN met the acceptance limits for an opening CCV and served as both an opening CCV as well as a closing CCV. The acceptance criteria presented on Form VII are of the opening CCV, since those are more stringent. Samples analyzed before and after this CCV are not part of this SDG and are not presented in Form V.

The continuing calibration verification (CCV) standard VSTD050VR met the acceptance limits for an opening CCV and served as both an opening CCV as well as a closing CCV. The acceptance criteria presented on Form VII are of the opening CCV, since those are more stringent.

The continuing calibration verification (CCV) standard VSTD050WD met the acceptance limits for an opening CCV and served as both an opening CCV as well as a closing CCV. The acceptance criteria presented on Form VII are of the opening CCV, since those are more stringent

The continuing calibration verification (CCV) standard VSTD050WE met the acceptance limits for an opening CCV and served as both an opening CCV as well as a closing CCV. The acceptance criteria presented on Form VII are of the opening CCV, since those are more stringent

The continuing calibration verification (CCV) standard VSTD050VU met the acceptance limits for an opening CCV and served as both an opening CCV as well as a closing CCV. The acceptance criteria presented on Form VII are of the opening CCV, since those are more stringent

The continuing calibration verification (CCV) standard VSTD050VX met the acceptance limits for an opening CCV and served as both an opening CCV as well as a closing CCV. The acceptance criteria presented on Form VII are of the opening CCV, since those are more stringent

The continuing calibration verification (CCV) standard VSTD050VY met the acceptance limits for an opening CCV and served as both an opening CCV as well as a closing CCV. The acceptance criteria presented on Form VII are of the opening CCV, since those are more stringent

Manual integration was performed on 1,2-Dichlorobenzene-d4 for VSTD010US due to incorrect auto integration.

Manual integration was performed on Dichlorofluoromethane, 1,2-Dichloroethane, 4-Methyl-2-pentanone, Toluene-d8, Isopropylbenzene, 1,2-Dichlorobenzene-d4 for VSTD005US due to incorrect auto integration.

Manual integration was performed on1,4-Dichlorobenzene-d4, 1,2-Dichlorobenzene-d4,1,4-Dichlorobenzene-d4, 1,1,2,2-Tetrachloroethane-d2 2-Hexanone-d5, Chlorobenzene-d5, trans-1,3-Dichloropropene-d6, 1,4-dioxane-d8,1,2-Dichloropropane-d6,1,4-Difluorobenzene ,Vinyl Chloride-d3, Chloroethane-d5, 2-Butanone-d5, Chloroform, Benzene-d6,Dichlorofluoromethane, 1,2-Dichloroethane-d4, 4-Methyl-2-pentanone, Toluene-d8, Isopropylbenzene, 1,2-Dichlorobenzene-d4 for E2RN9RE due to incorrect auto integration.

Manual integration was performed on 1,1,2,2-Tetrachloroethane-d2, 1,4-Dichlorobenzene-d4, Chlorobenzene-d5, Vinyl Chloride-d3, Chloroethane-d5, 1,3-Dichloroethene-d2, 2-Butanone-d5, Dichlorofluoromethane, 1,2-Dichloroethane, 4-Methyl-2-pentanone, Toluene-d8, Isopropylbenzene, 1,2-

Dichlorobenzene-d4, Chloroform,1,2-Dichloroethane-d4, Benzene-d6, 1,4-Difluorobenzene, 1,2-Dichloropropane-d6, trans-1,3-Dichloropropene-d6, for E2RN9 due to incorrect auto integration.

Manual integration was performed on 1,2-Dichlorobenzene-d4 and1,4-Dichlorobenzene-d4, for E2RQ2 due to incorrect auto integration.

Manual integration was performed on Tetrachloroethene for E2RQ2MSD due to incorrect auto integration

Manual integration was performed on 2-Hexanone-d5, 1,4-dioxane-d8, 1,1,2,2-Tetrachloroethane-d2, 1,4-Dichlorobenzene-d4, Chlorobenzene-d5, Vinyl Chloride-d3, Chloroethane-d5, 1,3-Dichloroethene-d2, 2-Butanone-d5, Dichlorofluoromethane, 1,2-Dichloroethane, 4-Methyl-2-pentanone, Toluene-d8, Isopropylbenzene, 1,2-Dichlorobenzene-d4, Chloroform-d,1,2-Dichloroethane-d4, Benzene-d6, 1,4-Difluorobenzene, 1,2-Dichloropropane-d6, trans-1,3-Dichloropropene-d6, for E2RP7RE due to incorrect auto integration

The peak eluting at ~4.95 min on MSD6 in all analyses is Pentafluorobenzene. This is an internal standard compound that is not being used for quantitation. This compound is not being identified as a TIC.

The peak eluting at ~7.9 min on MSD6 in all analyses is an extra DMC in the standard that is not being used for quantitation. This compound is not being identified as a TIC.

As per the SOW, an example calculation is attached for Vinyl chloride-d3 in sample E2RN9RE.

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy 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.

**Myra Jordan**
**Data Reviewer**
**October 28, 2010**

CASE: 40648
SDG: E2RN9

**Example Calculation for the Volatile Fraction**

RRF Calculation

RRF=(Ax*Cis)/(Ais*Cx)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

**Example: Vinyl Chloride-d3 from VSTD050US**

| | |
|---|---|
| Ax= | 234965 |
| Ais= | 813468 |
| Cis= | 250 |
| Cx= | 250 |
| RRF= | 0.2888 |

**Mean RRF from ICAL 0.3101**

**Concentration Calculation**

Concentration (ug/kg)=(Ax*Is*Df)/(Ais*RRF*Ws*D)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Is=Amount of the internal standard added, in nanograms
Mean RRF=Mean Relative response factor from initial calibration
Ws=sample wt (in gms)
Df=Dilution factor
D=(100-%Moisture)/100
P=Percent moisture

**Example: Vinyl Chloride-d3 from E2RN9RE**

| | |
|---|---|
| Ax= | 4219 |
| Ais= | 6697 |
| Is= | 250 |
| Mean RRF= | 0.31010 |
| Ws= | 5.87 |
| Df= | 1 |
| P= | 15.5 |
| D= | 0.845 |
| **Concentration (ug/kg)=** | **102.39** |

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

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Level: (LOW/MED) LOW

| | EPA SAMPLE NO. | VDMC1 (VCL) # | VDMC2 (CLA) # | VDMC3 (DCE) # | VDMC4 (BUT) # | VDMC5 (CLF) # | VDMC6 (DCA) # | VDMC7 (BEN) # |
|---|---|---|---|---|---|---|---|---|
| 01 | VBLKVF | 93 | 94 | 66 | 90 | 85 | 82 | 97 |
| 02 | E2RN9 | 283 * | 292 * | 132 | 35 | 170 * | 159 * | 206 * |
| 03 | VBLKVJ | 120 | 120 | 88 | 86 | 103 | 100 | 103 |
| 04 | VIBLKVI | 106 | 110 | 80 | 86 | 100 | 104 | 109 |
| 05 | E2RN9RE | 203 * | 180 * | 94 | 120 | 122 | 165 * | 115 |
| 06 | E2RP4 | 111 | 113 | 82 | 90 | 101 | 108 | 113 |
| 07 | VBLKWD | 89 | 93 | 68 | 84 | 86 | 85 | 98 |
| 08 | VHBLK01 | 108 | 107 | 74 | 105 | 93 | 98 | 94 |
| 09 | VBLKVN | 100 | 104 | 74 | 99 | 93 | 104 | 98 |
| 10 | E2RP6 | 116 | 109 | 76 | 93 | 90 | 97 | 96 |
| 11 | E2RP7 | 129 * | 126 | 85 | 101 | 99 | 103 | 98 |
| 12 | VBLKVX | 108 | 109 | 78 | 80 | 95 | 92 | 109 |
| 13 | E2RP7RE | 212 * | 203 * | 100 | 72 | 107 | 100 | 114 |
| 14 | E2RQ2MS | 107 | 103 | 96 | 80 | 82 | 82 | 91 |
| 15 | E2RQ2MSD | 116 | 112 | 105 | 81 | 87 | 86 | 107 |
| 16 | E2RQ2 | 124 * | 123 | 84 | 97 | 99 | 106 | 112 |
| 17 | E2RQ2RE | 91 | 91 | 60 | 71 | 67 * | 66 * | 87 |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |

| | QC LIMITS |
|---|---|
| VDMC1 (VCL) = Vinyl chloride-$d_3$ | (68-122) |
| VDMC2 (CLA) = Chloroethane-$d_5$ | (61-130) |
| VDMC3 (DCE) = 1,1-Dichloroethene-$d_2$ | (45-132) |
| VDMC4 (BUT) = 2-Butanone-$d_5$ | (20-182) |
| VCMD5 (CLF) = Chloroform-d | (72-123) |
| VDMC6 (DCA) = 1,2-Dichloroethane-$d_4$ | (79-122) |
| VDMC7 (BEN) = Benzene-$d_6$ | (80-121) |

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

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

Lab Name: Shealy Environmental Services, Inc Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Level: (LOW/MED) LOW

| | EPA SAMPLE NO. | VDMC8 (DPA) # | VDMC9 (TOL) # | VDMC10 (TDP) # | VDMC11 (HEX) # | VDMC12 (DXE) # | VDMC13 (TCA) # | VDMC14 (DCZ) # | TOT |
|---|---|---|---|---|---|---|---|---|---|
| 01 | VBLKVF | 94 | 95 | 92 | 105 | 88 | 87 | 95 | 0 |
| 02 | E2RN9 | 217 * | 161 * | 118 | 0 * | 0 * | 82 | 100 | 9 |
| 03 | VBLKVJ | 101 | 103 | 99 | 86 | 85 | 84 | 98 | 0 |
| 04 | VIBLKVI | 111 | 110 | 110 | 95 | 88 | 100 | 108 | 0 |
| 05 | E2RN9RE | 124 | 103 | 96 | 19 | 140 | 102 | 94 | 3 |
| 06 | E2RP4 | 113 | 111 | 113 | 98 | 79 | 95 | 92 | 0 |
| 07 | VBLKWD | 97 | 99 | 97 | 96 | 87 | 87 | 94 | 0 |
| 08 | VHBLK01 | 95 | 95 | 95 | 118 | 88 | 89 | 88 | 0 |
| 09 | VBLKVN | 101 | 98 | 103 | 102 | 96 | 94 | 97 | 0 |
| 10 | E2RP6 | 96 | 92 | 91 | 95 | 70 | 74 | 69 * | 1 |
| 11 | E2RP7 | 97 | 94 | 93 | 106 | 75 | 75 | 108 | 1 |
| 12 | VBLKVX | 107 | 113 | 104 | 85 | 84 | 86 | 104 | 0 |
| 13 | E2RP7RE | 113 | 115 | 83 | 28 | 86 | 76 | 96 | 2 |
| 14 | E2RQ2MS | 91 | 83 | 82 | 84 | 66 | 64 | 45 * | 1 |
| 15 | E2RQ2MSD | 105 | 99 | 96 | 94 | 65 | 71 | 108 | 0 |
| 16 | E2RQ2 | 107 | 99 | 99 | 105 | 75 | 81 | 78 | 1 |
| 17 | E2RQ2RE | 81 | 77 * | 70 * | 79 | 68 | 52 * | 108 | 5 |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |
| 25 | | | | | | | | | |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | | | | | | | | |
| 30 | | | | | | | | | |

| | QC LIMITS |
|---|---|
| VDMC8 (DPA) = 1,2-Dichloropropane-$d_6$ | (74-124) |
| VMDC9 (TOL) = Toluene-$d_8$ | (78-121) |
| VDMC10 (TDP) = trans-1,3-Dichloropropene-$d_4$ | (72-130) |
| VDMC11 (HEX) = 2-Hexanone-$d_5$ | (17-184) |
| VDMC12 (DXE) = 1,4-Dioxane-$d_8$ | (50-150) |
| VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-$d_2$ | (56-161) |
| VDMC14 (DCZ) = 1,2-Dichlorobenzene-$d_4$ | (70-131) |

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

3B - FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix Spike - EPA Sample No.: E2RQ2 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 | 41 | | 40 | 98 | 59-172 |
| Trichloroethene | 41 | | 37 | 90 | 62-137 |
| Benzene | 41 | | 40 | 97 | 66-142 |
| Toluene | 41 | | 36 | 88 | 59-139 |
| Chlorobenzene | 41 | | 30 | 72 | 60-133 |

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD %REC # | %RPD # | QC LIMITS | |
|---|---|---|---|---|---|---|
| | | | | | RPD | REC. |
| 1,1-Dichloroethene | 41 | 48 | 115 | 17 | 0-22 | 59-172 |
| Trichloroethene | 41 | 48 | 116 | 25 * | 0-24 | 62-137 |
| Benzene | 41 | 51 | 123 | 24 * | 0-21 | 66-142 |
| Toluene | 41 | 47 | 113 | 25 * | 0-21 | 59-139 |
| Chlorobenzene | 41 | 38 | 92 | 24 * | 0-21 | 60-133 |

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

* Values outside of QC Limits

RPD: 4 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

SOM01.2 (10/2006)

EPA SAMPLE NO.

VBLKVF

# 4A - FORM IV VOA
## VOLATILE METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Lab File ID: 61007B03  Lab Sample ID: LQ43948-001

Instrument ID: MSD6

Matrix: (SOIL/SED/WATER) Soil  Date Analyzed: 10/07/2010

Level: (TRACE or LOW/MED) LOW  Time Analyzed: 2205

GC Column: DB-624  ID: 0.25 (mm)  Heated Purge: (Y/N) Y

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E2RN9 | LJ06042-001 | 61007B12 | 0324 |
| 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 | | | | |

COMMENTS: _____

EPA SAMPLE NO.

VBLKVJ

# 4A - FORM IV VOA
## VOLATILE METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Lab File ID: 61008a01  Lab Sample ID: LQ44023-001

Instrument ID: MSD6

Matrix: (SOIL/SED/WATER) Soil  Date Analyzed: 10/08/2010

Level: (TRACE or LOW/MED) LOW  Time Analyzed: 0836

GC Column: DB-624  ID: 0.25 (mm)  Heated Purge: (Y/N) Y

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | VIBLKVI | LQ44023-018 | 61008a08 | 1231 |
| 02 | E2RN9RE | LJ06042-001 | 61008a09 | 1301 |
| 03 | E2RP4 | LJ06042-002 | 61008a10 | 1325 |
| 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 | | | | |

COMMENTS: _____

EPA SAMPLE NO.

VBLKVN

# 4A - FORM IV VOA
## VOLATILE METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Lab File ID: 61008B01 Lab Sample ID: LQ44024-001

Instrument ID: MSD6

Matrix: (SOIL/SED/WATER) Soil Date Analyzed: 10/08/2010

Level: (TRACE or LOW/MED) LOW Time Analyzed: 1955

GC Column: DB-624 ID: 0 25 (mm) Heated Purge: (Y/N) Y

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E2RP6 | LJ07044-001 | 61008B17 | 0313 |
| 02 | E2RP7 | LJ07044-002 | 61008B18 | 0336 |
| 03 | E2RQ2 | LJ07044-003 | 61008B19 | 0359 |
| 04 | E2RQ2MS | LJ07044-003MS | 61008B23 | 0532 |
| 05 | E2RQ2MSD | LJ07044-003MD | 61008B24 | 0555 |
| 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: _____

EPA SAMPLE NO.

VBLKVX

# 4A - FORM IV VOA
## VOLATILE METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Lab File ID: 61011a01  Lab Sample ID: LQ44158-001

Instrument ID: MSD6

Matrix: (SOIL/SED/WATER) Soil  Date Analyzed: 10/11/2010

Level: (TRACE or LOW/MED) LOW  Time Analyzed: 0811

GC Column: DB-624  ID: 0 25 (mm)  Heated Purge: (Y/N) Y

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E2RP7RE | LJ07044-002 | 61011a02 | 0911 |
| 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 | | | | |

COMMENTS: _____

EPA SAMPLE NO.

VBLKWD

# 4A - FORM IV VOA
## VOLATILE METHOD BLANK SUMMARY

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Lab File ID: 61012b05  Lab Sample ID: LQ44255-001

Instrument ID: MSD6

Matrix: (SOIL/SED/WATER) Soil  Date Analyzed: 10/12/2010

Level: (TRACE or LOW/MED) LOW  Time Analyzed: 1559

GC Column: DB-624  ID: 0.25 (mm)  Heated Purge: (Y/N) Y

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | E2RQ2RE | LJ07044-003 | 61012b06 | 1710 |
| 02 | VHBLK01 | LJ06042-003 | 61012b11C | 2145 |
| 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 | | | | |

COMMENTS: _____

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/05/2010 10/05/2010

EPA Sample No. (VSTD#####): VSTD050VF Date Analyzed: 10/07/2010

Lab File ID (Standard): 61007B02 Time Analyzed: 2109

Instrument ID: MSD6 Heated Purge: (Y/N) Y

| | | IS1 (CBZ) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 861957 | 9.220 | 969318 | 5.770 | 531416 | 11.230 |
| | UPPER LIMIT | 1723914 | 9.715 | 1938636 | 6.272 | 1062832 | 11.729 |
| | LOWER LIMIT | 430979 | 8.715 | 484659 | 5.272 | 265708 | 10.729 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VBLKVF | 784176 | 9.220 | 892142 | 5.770 | 480448 | 11.24 |
| 02 | E2RN9 | 1772 * | 9.220 | 2617 * | 5.780 | 261 * | 11.24 |
| 03 | | | | | | | |
| 04 | | | | | | | |
| 05 | | | | | | | |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (CBZ) = Chlorobenzene-$d_5$
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-$d_4$

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.

Filled in by A C Harvey of Techlaw - ESAT ACH 11-15-10

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Shealy Environmental Services Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/05/2010

EPA Sample No.(VSTD#####): VSTD050V1 Date Analyzed: 10/08/2010

Lab File ID (Standard): 61007B23 Time Analyzed: 0755

Instrument ID: MSD6 Heated Purge: (Y/N) Y

| | | IS1 (CBZ) AREA# | RT # | IS2 (DFB) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 588731 | 9.221 | 648778 | 5.778 | 372741 | 11.235 |
| | UPPER LIMIT | 1177462 | 9.721 | 1297556 | 6.278 | 745482 | 11.735 |
| | LOWER LIMIT | 294366 | 8.721 | 324389 | 5.278 | 186371 | 10.735 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VBLKVJ | 664794 | 9.227 | 771325 | 5.784 | 374195 | 11.241 |
| 02 | VIBLKVI | 565709 | 9.215 | 668944 | 5.772 | 319233 | 11.235 |
| 03 | E2RN9RE | 6496 * | 9.215 | 6697 * | 5.760 | 2394 * | 11.235 |
| 04 | E2RP4 | 485546 | 9.215 | 599144 | 5.772 | 242052 | 11.235 |
| 05 | | | | | | | |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (CBZ) = Chlorobenzene-$d_5$
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-$d_4$

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: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/05/2010 10/05/2010

EPA Sample No. (VSTD#####): VSTD050VN Date Analyzed: 10/08/2010

Lab File ID (Standard): 61008a25 Time Analyzed: 1915

Instrument ID: MSD6 Heated Purge: (Y/N) Y

| | | IS1 (CBZ) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 562699 | 9.220 | 605212 | 5.780 | 361430 | 11.240 |
| | UPPER LIMIT | 1125398 | 9.715 | 1210424 | 6.278 | 722860 | 11.735 |
| | LOWER LIMIT | 281350 | 8.715 | 302606 | 5.278 | 180715 | 10.735 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VBLKVN | 570585 | 9.220 | 650771 | 5.770 | 330447 | 11.24 |
| 02 | E2RP6 | 465477 | 9.220 | 552994 | 5.780 | 236490 | 11.24 |
| 03 | E2RP7 | 407738 | 9.220 | 469906 | 5.780 | 165680 * | 11.24 |
| 04 | E2RQ2MS | 615843 | 9.220 | 734744 | 5.780 | 339572 | 11.24 |
| 05 | E2RQ2MSD | 495138 | 9.220 | 648833 | 5.780 | 196044 | 11.24 |
| 06 | E2RQ2 | 362472 | 9.220 | 472430 | 5.780 | 144192 * | 11.24 |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (CBZ) = Chlorobenzene-$d_5$
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-$d_4$

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: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/05/2010 10/05/2010

EPA Sample No. (VSTD#####): VSTD050VX Date Analyzed: 10/11/2010

Lab File ID (Standard): 61010A21 Time Analyzed: 0546

Instrument ID: MSD6 Heated Purge: (Y/N) Y

| | | IS1 (CBZ) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 711977 | 9.220 | 800895 | 5.770 | 443814 | 11.230 |
| | UPPER LIMIT | 1423954 | 9.715 | 1601790 | 6.272 | 887628 | 11.729 |
| | LOWER LIMIT | 355989 | 8.715 | 400448 | 5.272 | 221907 | 10.729 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VBLKVX | 664794 | 9.230 | 771325 | 5.780 | 374195 | 11.24 |
| 02 | E2RP7RE | 26182 * | 9.220 | 26669 * | 5.780 | 8972 * | 11.24 |
| 03 | | | | | | | |
| 04 | | | | | | | |
| 05 | | | | | | | |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (CBZ) = Chlorobenzene-$d_5$
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-$d_4$

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: Shealy Environmental Services, Inc Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

GC Column: DB-624 ID: 0.25 (mm) Init. Calib. Date(s): 10/05/2010 10/05/2010

EPA Sample No. (VSTD#####): VSTD050WD Date Analyzed: 10/12/2010

Lab File ID (Standard): 61012b02 Time Analyzed: 1407

Instrument ID: MSD6 Heated Purge: (Y/N) Y

| | | IS1 (CBZ) AREA # | RT # | IS2 (DFB) AREA # | RT # | IS3 (DCB) AREA # | RT # |
|---|---|---|---|---|---|---|---|
| | 12 HOUR STD | 857830 | 9.220 | 1011491 | 5.770 | 527668 | 11.230 |
| | UPPER LIMIT | 1715660 | 9.715 | 2022982 | 6.272 | 1055336 | 11.729 |
| | LOWER LIMIT | 428915 | 8.715 | 505746 | 5.272 | 263834 | 10.729 |
| | EPA SAMPLE NO. | | | | | | |
| 01 | VBLKWD | 738946 | 9.220 | 853616 | 5.780 | 450350 | 11.24 |
| 02 | VHBLK01 | 584483 | 9.220 | 638312 | 5.780 | 365593 | 11.24 |
| 03 | E2RQ2RE | 541721 | 9.220 | 719983 | 5.770 | 228439 * | 11.23 |
| 04 | | | | | | | |
| 05 | | | | | | | |
| 06 | | | | | | | |
| 07 | | | | | | | |
| 08 | | | | | | | |
| 09 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |

IS1 (CBZ) = Chlorobenzene-$d_5$
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-$d_4$

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.
E2RN9

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ06042-001

Sample wt/vol: 5.92 (g/mL) g  Lab File ID: 61007B12

Level: (TRACE/LOW/MED) LOW  Date Received: 10/06/2010

% Moisture: not dec. 16  Date Analyzed: 10/08/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 5.0 | 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 |

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

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

EPA SAMPLE NO.
E2RN9

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ06042-001

Sample wt/vol: 5.92 (g/mL) g Lab File ID: 61007B12

Level: (TRACE/LOW/MED) LOW Date Received: 10/06/2010

% Moisture: not dec. 16 Date Analyzed: 10/08/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (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.
E2RN9

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ06042-001

Sample wt/vol: 5.92 (g/mL) g Lab File ID: 61007B12

Level: (TRACE or LOW/MED) LOW Date Received: 10/06/2010

% Moisture: not dec. 16 Date Analyzed: 10/08/2010

GC Column: DB-624 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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 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 (10/2006)

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

EPA SAMPLE NO.
E2RN9RE

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ06042-001

Sample wt/vol: 5.87 (g/mL) g  Lab File ID: 61008a09

Level: (TRACE/LOW/MED) LOW  Date Received: 10/06/2010

% Moisture: not dec. 16  Date Analyzed: 10/08/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 5.0 | 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 |

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

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

EPA SAMPLE NO.
E2RN9RE

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ06042-001

Sample wt/vol: 5.87 (g/mL) g  Lab File ID: 61008a09

Level: (TRACE/LOW/MED) LOW  Date Received: 10/06/2010

% Moisture: not dec. 16  Date Analyzed: 10/08/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5 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 | 220 | E |
| 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.
E2RN9RE

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ06042-001

Sample wt/vol: 5.87 (g/mL) g  Lab File ID: 61008a09

Level: (TRACE or LOW/MED) LOW  Date Received: 10/06/2010

% Moisture: not dec. 16  Date Analyzed: 10/08/2010

GC Column: DB-624  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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 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 (10/2006)

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

EPA SAMPLE NO.
E2RP4

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ06042-002

Sample wt/vol: 6.73 (g/mL) g  Lab File ID: 61008a10

Level: (TRACE/LOW/MED) LOW  Date Received: 10/06/2010

% Moisture: not dec. 9.1  Date Analyzed: 10/08/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 4.1 | 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 |

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

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

EPA SAMPLE NO.
E2RP4

Lab Name: Shealy Environmental Services, Inc Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ06042-002

Sample wt/vol: 6.73 (g/mL) g Lab File ID: 61008a10

Level: (TRACE/LOW/MED) LOW Date Received: 10/06/2010

% Moisture: not dec. 9.1 Date Analyzed: 10/08/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 4.1 | U |
| 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 | 2.4 | J |
| 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.
E2RP4

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ06042-002

Sample wt/vol: 6.73 (g/mL) g  Lab File ID: 61008a10

Level: (TRACE or LOW/MED) LOW  Date Received: 10/06/2010

% Moisture: not dec. 9.1  Date Analyzed: 10/08/2010

GC Column: DB-624  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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 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.

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

EPA SAMPLE NO.
E2RP6

Lab Name: Shealy Environmental Services, Inc Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ07044-001

Sample wt/vol: 5.31 (g/mL) g Lab File ID: 61008B17

Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2010

% Moisture: not dec. 4 5 Date Analyzed: 10/09/2010

GC Column: DB-624 ID: 0 25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 5.0 | 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 |

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

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

EPA SAMPLE NO.
E2RP6

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ07044-001

Sample wt/vol: 5.31 (g/mL) g  Lab File ID: 61008B17

Level: (TRACE/LOW/MED) LOW  Date Received: 10/07/2010

% Moisture: not dec. 4 5  Date Analyzed: 10/09/2010

GC Column: DB-624  ID: 0 25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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.
E2RP6

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ07044-001

Sample wt/vol: 5.31 (g/mL) g Lab File ID: 61008B17

Level: (TRACE or LOW/MED) LOW Date Received: 10/07/2010

% Moisture: not dec. 4.5 Date Analyzed: 10/09/2010

GC Column: DB-624 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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 7.890 | 19 | 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 (10/2006)

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

EPA SAMPLE NO.
E2RP7

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ07044-002

Sample wt/vol: 5.38 (g/mL) g  Lab File ID: 61008B18

Level: (TRACE/LOW/MED) LOW  Date Received: 10/07/2010

% Moisture: not dec. 58  Date Analyzed: 10/09/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 50 (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 | 5.0 | 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 |

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

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

EPA SAMPLE NO.
E2RP7

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ07044-002

Sample wt/vol: 5.38 (g/mL) g Lab File ID: 61008B18

Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2010

% Moisture: not dec. 5.8 Date Analyzed: 10/09/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (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
E2RP7

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ07044-002

Sample wt/vol: 5.38 (g/mL) g  Lab File ID: 61008B18

Level: (TRACE or LOW/MED) LOW  Date Received: 10/07/2010

% Moisture: not dec. 58  Date Analyzed: 10/09/2010

GC Column: DB-624  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: 50 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 7.890 | 20 | 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 (10/2006)

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

EPA SAMPLE NO.
E2RP7RE

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ07044-002

Sample wt/vol: 5.34 (g/mL) g  Lab File ID: 61011a02

Level: (TRACE/LOW/MED) LOW  Date Received: 10/07/2010

% Moisture: not dec. 5.8  Date Analyzed: 10/11/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 9.9 | U |
| 75-15-0 | Carbon Disulfide | 5.0 | U |
| 79-20-9 | Methyl acetate | 5.0 | U |
| 75-09-2 | Methylene chloride | 5.0 | 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 | 9.9 | 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 | 99 | U |

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

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

EPA SAMPLE NO.
E2RP7RE

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ07044-002

Sample wt/vol: 5.34 (g/mL) g  Lab File ID: 61011a02

Level: (TRACE/LOW/MED) LOW  Date Received: 10/07/2010

% Moisture: not dec. 5.8  Date Analyzed: 10/11/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 9.9 | 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 | 9.9 | 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.
E2RP7RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ07044-002

Sample wt/vol: 5 34 (g/mL) g Lab File ID: 61011a02

Level: (TRACE or LOW/MED) LOW Date Received: 10/07/2010

% Moisture: not dec. 5.8 Date Analyzed: 10/11/2010

GC Column: DB-624 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: 5 0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 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 (10/2006)

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

EPA SAMPLE NO.
E2RQ2

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ07044-003

Sample wt/vol: 6.72 (g/mL) g  Lab File ID: 61008B19

Level: (TRACE/LOW/MED) LOW  Date Received: 10/07/2010

% Moisture: not dec. 9.8  Date Analyzed: 10/09/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 4.1 | 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 |

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

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

EPA SAMPLE NO.
E2RQ2

Lab Name: Shealy Environmental Services, Inc Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ07044-003

Sample wt/vol: 6.72 (g/mL) g Lab File ID: 61008B19

Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2010

% Moisture: not dec. 9.8 Date Analyzed: 10/09/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 4.1 | U |
| 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.
E2RQ2

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ07044-003

Sample wt/vol: 6.72 (g/mL) g  Lab File ID: 61008B19

Level: (TRACE or LOW/MED) LOW  Date Received: 10/07/2010

% Moisture: not dec. 9.8  Date Analyzed: 10/09/2010

GC Column: DB-624  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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 7.890 | 16 | 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 (10/2006)

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

EPA SAMPLE NO.
E2RQ2MS

Lab Name: Shealy Environmental Services, Inc Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ07044-003MS

Sample wt/vol: 6.72 (g/mL) g Lab File ID: 61008B23

Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2010

% Moisture: not dec. 9.8 Date Analyzed: 10/09/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 50 (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 | 40 | |
| 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 | 4.1 | 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 | 40 | |
| 107-06-2 | 1,2-Dichloroethane | 4.1 | U |
| 123-91-1 | 1,4-Dioxane | 82 | U |

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

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

EPA SAMPLE NO.
E2RQ2MS

Lab Name: Shealy Environmental Services, Inc Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ07044-003MS

Sample wt/vol: 6 72 (g/mL) g Lab File ID: 61008B23

Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2010

% Moisture: not dec. 9 8 Date Analyzed: 10/09/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1 0

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

Purge Volume: 5.0 (mL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 37 | |
| 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 | 36 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.1 | U |
| 127-18-4 | Tetrachloroethene | 1.4 | J |
| 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 | 30 | |
| 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 |

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

EPA SAMPLE NO.
E2RQ2MSD

Lab Name: Shealy Environmental Services, Inc
Contract: EP-W-05-031
Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9
Matrix: (SOIL/SED/WATER) Soil
Lab Sample ID: LJ07044-003MD
Sample wt/vol: 6.69 (g/mL) g
Lab File ID: 61008B24
Level: (TRACE/LOW/MED) LOW
Date Received: 10/07/2010
% Moisture: not dec. 9.8
Date Analyzed: 10/09/2010
GC Column: DB-624 ID: 0.25 (mm)
Dilution Factor: 1.0
Soil Extract Volume: _____ (uL)
Soil Aliquot Volume: _____ (uL)
Purge Volume: 5.0 (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 | 48 | |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.1 | U |
| 67-64-1 | Acetone | 8.3 | U |
| 75-15-0 | Carbon Disulfide | 4.1 | U |
| 79-20-9 | Methyl acetate | 4.1 | U |
| 75-09-2 | Methylene chloride | 4.1 | 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 | 8.3 | 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 | 51 | |
| 107-06-2 | 1,2-Dichloroethane | 4.1 | U |
| 123-91-1 | 1,4-Dioxane | 83 | U |

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

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

EPA SAMPLE NO.
E2RQ2MSD

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ07044-003MD

Sample wt/vol: 6 69 (g/mL) g  Lab File ID: 61008B24

Level: (TRACE/LOW/MED) LOW  Date Received: 10/07/2010

% Moisture: not dec. 9 8  Date Analyzed: 10/09/2010

GC Column: DB-624  ID: 0 25 (mm)  Dilution Factor: 1 0

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

Purge Volume: 5.0 (mL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 48 | |
| 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 | 8.3 | U |
| 108-88-3 | Toluene | 47 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.1 | U |
| 127-18-4 | Tetrachloroethene | 1.2 | J |
| 591-78-6 | 2-Hexanone | 8.3 | U |
| 124-48-1 | Dibromochloromethane | 4.1 | U |
| 106-93-4 | 1,2-Dibromoethane | 4.1 | U |
| 108-90-7 | Chlorobenzene | 38 | |
| 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 |

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

EPA SAMPLE NO.
E2RQ2RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ07044-003

Sample wt/vol: 6.52 (g/mL) g Lab File ID: 61012b06

Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2010

% Moisture: not dec. 98 Date Analyzed: 10/12/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 10

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

Purge Volume: 50 (mL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 4.3 | U |
| 74-87-3 | Chloromethane | 4.3 | U |
| 75-01-4 | Vinyl chloride | 4.3 | U |
| 74-83-9 | Bromomethane | 4.3 | U |
| 75-00-3 | Chloroethane | 4.3 | U |
| 75-69-4 | Trichlorofluoromethane | 4.3 | U |
| 75-35-4 | 1,1-Dichloroethene | 4.3 | U |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.3 | U |
| 67-64-1 | Acetone | 8.5 | U |
| 75-15-0 | Carbon Disulfide | 4.3 | U |
| 79-20-9 | Methyl acetate | 4.3 | U |
| 75-09-2 | Methylene chloride | 4.3 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 4.3 | U |
| 1634-04-4 | Methyl tert-butyl ether | 4.3 | U |
| 75-34-3 | 1,1-Dichloroethane | 4.3 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 4.3 | U |
| 78-93-3 | 2-Butanone | 8.5 | U |
| 74-97-5 | Bromochloromethane | 4.3 | U |
| 67-66-3 | Chloroform | 4.3 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 4.3 | U |
| 110-82-7 | Cyclohexane | 4.3 | U |
| 56-23-5 | Carbon tetrachloride | 4.3 | U |
| 71-43-2 | Benzene | 4.3 | U |
| 107-06-2 | 1,2-Dichloroethane | 4.3 | U |
| 123-91-1 | 1,4-Dioxane | 85 | U |

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

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

TPE SAMPLE NO.
E2RQ2RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ07044-003

Sample wt/vol: 6.52 (g/mL) g Lab File ID: 61012b06

Level: (TRACE/LOW/MED) LOW Date Received: 10/07/2010

% Moisture: not dec. 9.8 Date Analyzed: 10/12/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (mL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg | Q |
|---|---|---|---|
| 79-01-6 | Trichloroethene | 4.3 | U |
| 108-87-2 | Methylcyclohexane | 4.3 | U |
| 78-87-5 | 1,2-Dichloropropane | 4.3 | U |
| 75-27-4 | Bromodichloromethane | 4.3 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 4.3 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 8.5 | U |
| 108-88-3 | Toluene | 4.3 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 4.3 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 4.3 | U |
| 127-18-4 | Tetrachloroethene | 4.3 | U |
| 591-78-6 | 2-Hexanone | 8.5 | U |
| 124-48-1 | Dibromochloromethane | 4.3 | U |
| 106-93-4 | 1,2-Dibromoethane | 4.3 | U |
| 108-90-7 | Chlorobenzene | 4.3 | U |
| 100-41-4 | Ethylbenzene | 4.3 | U |
| 95-47-6 | o-Xylene | 4.3 | U |
| 179601-23-1 | m,p-Xylene | 4.3 | U |
| 100-42-5 | Styrene | 4.3 | U |
| 75-25-2 | Bromoform | 4.3 | U |
| 98-82-8 | Isopropylbenzene | 4.3 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 4.3 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 4.3 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 4.3 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 4.3 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 4.3 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.3 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.3 | U |

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

EPA SAMPLE NO.
E2RQ2RE

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: - SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ07044-003

Sample wt/vol: 6 52 (g/mL) g Lab File ID: 61012b06

Level: (TRACE or LOW/MED) LOW Date Received: 10/07/2010

% Moisture: not dec. 9 8 Date Analyzed: 10/12/2010

GC Column: DB-624 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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | Unknown-01 | 7.880 | 12 | 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 (10/2006)

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

TEST SAMPLE NO.
VBLKVF

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LQ43948-001

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 61007B03

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

% Moisture: not dec. 0.00 Date Analyzed: 10/07/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 5.0 | 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 |

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

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

EPA SAMPLE NO.
VBLKVF

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LQ43948-001

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 61007B03

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

% Moisture: not dec. 0.00 Date Analyzed: 10/07/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (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.
VBLKVF

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LQ43948-001

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 61007B03

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

% Moisture: not dec. 0.00 Date Analyzed: 10/07/2010

GC Column: DB-624 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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 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 (10/2006)

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

EPA SAMPLE NO.
VBLKVJ

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LQ44023-001

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 61008a01

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

% Moisture: not dec. 0.00 Date Analyzed: 10/08/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 5.0 | 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 |

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

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

EPA SAMPLE NO.
VBLKVJ

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LQ44023-001

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 61008a01

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

% Moisture: not dec. 0.00 Date Analyzed: 10/08/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (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.
VBLKVJ

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LQ44023-001

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 61008a01

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

% Moisture: not dec. 0.00 Date Analyzed: 10/08/2010

GC Column: DB-624 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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 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 (10/2006)

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

EPA SAMPLE NO.
VBLKVN

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LQ44024-001

Sample wt/vol: 5.00 (g/mL) g  Lab File ID: 61008B01

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

% Moisture: not dec. 0.00  Date Analyzed: 10/08/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 5.0 | 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 |

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

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

EPA SAMPLE NO.
VBLKVN

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LQ44024-001

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 61008B01

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

% Moisture: not dec. 0.00 Date Analyzed: 10/08/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (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.
VBLKVN

Lab Name: Shealy Environmental Services, Inc
Contract: EP-W-05-031
Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9
Matrix: (SOIL/SED/WATER) Soil
Lab Sample ID: LQ44024-001
Sample wt/vol: 5 00 (g/mL) g
Lab File ID: 61008B01
Level: (TRACE or LOW/MED) LOW
Date Received: _____
% Moisture: not dec. 0.00
Date Analyzed: 10/08/2010
GC Column: DB-624 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: 5 0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 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.

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

EPA SAMPLE NO.
VBLKVX

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LQ44158-001

Sample wt/vol: 5.00 (g/mL) g  Lab File ID: 61011a01

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

% Moisture: not dec. 0.00  Date Analyzed: 10/11/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 5.0 | 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 |

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

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

EPA SAMPLE NO.
VBLKVX

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LQ44158-001

Sample wt/vol: 5.00 (g/mL) g  Lab File ID: 61011a01

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

% Moisture: not dec. 0.00  Date Analyzed: 10/11/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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.
VBLKVX

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LQ44158-001

Sample wt/vol: 5 00 (g/mL) g  Lab File ID: 61011a01

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

% Moisture: not dec. 0.00  Date Analyzed: 10/11/2010

GC Column: DB-624  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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 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 (10/2006)

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

EPA SAMPLE NO.
VBLKWD

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LQ44255-001

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 61012b05

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

% Moisture: not dec. 0.00 Date Analyzed: 10/12/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 5.0 | 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 |

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

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

EPA SAMPLE NO.
VBLKWD

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LQ44255-001

Sample wt/vol: 5.00 (g/mL) g  Lab File ID: 61012b05

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

% Moisture: not dec. 0.00  Date Analyzed: 10/12/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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
VBLKWD

Lab Name: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LQ44255-001

Sample wt/vol: 5.00 (g/mL) g  Lab File ID: 61012b05

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

% Moisture: not dec. 0.00  Date Analyzed: 10/12/2010

GC Column: DB-624  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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 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 (10/2006)

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

EPA SAMPLE NO.
VHBLK01

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ06042-003

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 61012b11C

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

% Moisture: not dec. 0.00 Date Analyzed: 10/12/2010

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

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

Purge Volume: 5.0 (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 | 5.0 | 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 |

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: Shealy Environmental Services, Inc  Contract: EP-W-05-031

Lab Code: SHEALY  Case No.: 40646  Mod. Ref No.: _____  SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil  Lab Sample ID: LJ06042-003

Sample wt/vol: 5.00 (g/mL) g  Lab File ID: 61012b11C

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

% Moisture: not dec. 0 00  Date Analyzed: 10/12/2010

GC Column: DB-624  ID: 0.25 (mm)  Dilution Factor: 1.0

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

Purge Volume: 5.0 (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-Trichloroetnane | 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: Shealy Environmental Services, Inc. Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 40646 Mod. Ref No.: _____ SDG No.: E2RN9

Matrix: (SOIL/SED/WATER) Soil Lab Sample ID: LJ06042-003

Sample wt/vol: 5.00 (g/mL) g Lab File ID: 61012b11C

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

% Moisture: not dec. 0.00 Date Analyzed: 10/12/2010

GC Column: DB-624 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: 5.0 (mL)

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 01 | | | | | |
| 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 (10/2006)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E2RN9 CERCLIS No: TNN000510423

Case No: 40646 Site Name/Location: Webb Well Field (TN)

Contractor or EPA Lab: Shealy Data User: IDEM

No. of Samples: 5 Date Sampled or Date Received: 29 Oct 2010

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: 5 No. of samples received:_____

Received by: [illegible] Date: 29 Oct 2010

Received by LSSS: [illegible] Date: 8 Nov 2010

Review started: Nov 12, 2010 Reviewer Signature: Allison C Harvey

Total time spent on review: 60 hrs Date review completed: Nov 16, 2010

Copied by: A. C. Harvey Date: Nov 16, 2010

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:_____

**Allison Harvey/R5/USEPA/US**

11/16/2010 02:53 PM

To mjaworsk

cc RICHARD BYVIK/R5/USEPA/US

bcc

Subject Webb Well Field - Case 40646

Attached please find the Data Validation deliverables for Webb Well Field - Case 40646 sdg E2RN9. These deliverables are being issued in conjunction with the hardcopy ESAT 5/TechLaw report Controlled Document Number **ESAT5.216.00157**.

40646 sdg E2RN9 TIC.docx 40646 sdg E2RN9 nar.doc 40646 sdg E2RN9 Spreadsheet.xls 40646 sdg E2RN9 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