EPA Region 5 Records Ctr.
279324

INDIANA DEPARTMENT
OF ENVIRONMENTAL MANAGEMENT
SITE INSPECTION FOR
LUSHER STREET GROUNDWATER
CONTAMINATION SITE
ELKHART, INDIANA
ELKHART COUNTY
U.S. EPA ID: IND048994131
(VOLUME 2 OF 2)

APPENDIX N
Chemical Analysis
Sample Events #4 and #5

DATE: January 22, 2007

RECEIVED
JAN 26 2007
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

Indiana Dept of Environmental Management
Office of Environmental/Site Investigation Section
ATTN: Mark Jaworski
P.O. Box 6015
100 N. Senate Avenue
Indianapolis, IN 46206-6015

SITE NAME: Luster Street Groundwater Contamination (IN)

CASE #	LAB	SAMPLES	SDG	MATRIX
35998	KAP	20	E2P00	water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: December 28, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J) for Steve Ostrodka
Superfund Field Services Section Richard L Byrd
1/19/07

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE Name: Lusher Street Groundwater Contamination (IN)

Case Number: 35998 SDG Number: E2P00

Number and Type of Samples: 20 Waters (Trace VOAs)

Sample Numbers: E2P00 – E2P17, E2P46, E2P47

Laboratory: KAP Technologies Hrs for Review:

Following are our findings:

The data are usable and acceptable with the qualifications described in the attached narrative.
Richard L Byrd

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35998 SDG Number: E2P00
Site Name: Lusher Street Groundwater Contam. (IN) Laboratory: KAP Technologies

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

Twenty (20) preserved water samples labeled E2P00 through E2P17, E2P46 and E2P47 were shipped to KAP Technologies. All samples were collected December 5 - 6, 2006 and received on December 7, 2006 intact and properly cooled. All samples were analyzed for only the trace volatile target compounds. All samples were analyzed according to CLP SOW SOM01.1 and reviewed according to the NFG for SOM01.1 and the ESAT Region 5 Organic Data Validation Criteria Matrix.

Sample E2P47 was designated by the samplers to be used for laboratory QC, i.e. matrix spike / matrix spike duplicate analyses.

No samples were identified as trip blanks, field blanks or field duplicates.

Case Number: 35998 SDG Number: E2P00
Site Name: Lusher Street Groundwater Contam. (IN) Laboratory: KAP Technologies

1. HOLDING TIME

No problems were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found.

3. CALIBRATION

The following trace volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. The compound was not detected in any of the samples. The non-detected compound is qualified "R".

1,4-Dioxane
E2P00, E2P01, E2P01DL, E2P02, E2P03, E2P03DL, E2P04, E2P05, E2P06, E2P07, E2P07DL, E2P08, E2P09, E2P10, E2P10DL, E2P11, E2P12, E2P13, E2P14, E2P15, E2P16, E2P16DL, E2P17, E2P17DL, E2P46, E2P46DL, E2P47, E2P47MS, E2P47MSD, VBLKDE, VBLKDI, VBLKDK, VBLKDN, VBLKDP, VBLKDR, VBLKDT, VBLKEI, VHBLK01

The following trace volatile samples are associated with an initial calibration with a percent relative standard deviation (%RSD) that exceeded the criteria of 30%. The compound was not detected in any of the samples. Non-detected compounds are qualified "UJ".

o-Xylene
E2P10, E2P11, E2P16, E2P17, E2P46, E2P47MS, E2P47MSD, VBLKDR, VBLKDT

The following trace volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Sample results are not qualified based on the DMC %RSD or RRF data alone.

1,4-Dioxane-d8
E2P00, E2P01, E2P01DL, E2P02, E2P03, E2P03DL, E2P04, E2P05, E2P06, E2P07, E2P07DL, E2P08, E2P09, E2P10, E2P10DL, E2P11, E2P12, E2P13, E2P14, E2P15, E2P16, E2P16DL, E2P17, E2P17DL, E2P46, E2P46DL, E2P47, E2P47MS, E2P47MSD, VBLKDE, VBLKDI, VBLKDK, VBLKDN, VBLKDP, VBLKDR, VBLKDT, VBLKEI, VHBLK01

The following trace volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. The compound was not detected in any of the samples. The non-detected compound is qualified "R".

1,4-Dioxane
E2P00, E2P01, E2P01DL, E2P02, E2P03, E2P03DL, E2P04, E2P05, E2P06, E2P07, E2P07DL, E2P08, E2P09, E2P10, E2P10DL, E2P11, E2P12, E2P13, E2P14, E2P15, E2P16, E2P16DL, E2P17, E2P17DL, E2P46, E2P46DL, E2P47, E2P47MS, E2P47MSD, VBLKDE, VBLKDI, VBLKDK, VBLKDN, VBLKDP, VBLKDR, VBLKDT, VBLKEI, VHBLK01

The following trace volatile samples are associated with a CCV in which a DMC did not meet relative response factor (RRF) criteria. Sample results are not qualified based on the DMC %D or RRF data alone.

1,4-Dioxane-d8
E2P00, E2P01, E2P01DL, E2P02, E2P03, E2P03DL, E2P04, E2P05, E2P06, E2P07, E2P07DL, E2P08, E2P09, E2P10, E2P10DL, E2P11, E2P12, E2P13, E2P14, E2P15, E2P16, E2P16DL, E2P17, E2P17DL, E2P46, E2P46DL, E2P47, E2P47MS, E2P47MSD, VBLKDE, VBLKDI, VBLKDK, VBLKDN, VBLKDP, VBLKDR, VBLKDT, VBLKEI, VHBLK01

4. BLANKS

The following trace volatile samples have common contaminant analyte concentrations reported less than 2X the CRQL. The associated method blank has common analyte contaminant concentration less than 2X the concentration criteria. Detected compounds are qualified "U". The non-detected compound in sample E2P10 is qualified "UJ" because of poor DMC recovery. Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Methylene Chloride
E2P01DL, E2P03DL, E2P04, E2P10

The following trace volatile samples have common contaminant analyte concentrations reported greater than or equal to 4X the CRQL. The associated method blank has common analyte contaminant concentration less than or equal to 2X the concentration criteria. Detected compounds are qualified "U". The sample concentration value is reported.

Methylene Chloride
E2P07DL, E2P10DL, E2P16DL, E2P17DL

The following trace volatile samples have common contaminant analyte concentrations reported greater than or equal to 2x the CRQL and less than 4X the CRQL. The associated method blank common contaminant concentration is less than 2X the concentration criteria. Detected compounds are qualified "U". The sample concentration value is reported.

Methylene Chloride
E2P46DL

Case Number: 35998 SDG Number: E2P00
Site Name: Lusher Street Groundwater Contam. (IN) Laboratory: KAP Technologies

The following trace volatile samples have TIC concentrations less than 5X the associated method blank TIC concentration. The detected TIC is considered blank contamination and deleted from the TIC report.

E2P00, E2P01DL, E2P02, E2P03DL, E2P04, E2P05, E2P06, E2P07, E2P07DL, E2P08, E2P09, E2P10DL, E2P11, E2P12, E2P13, E2P14, E2P15, E2P16DL, E2P17DL, E2P46, E2P46DL, E2P47, VHBLK01

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following trace volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. The compounds were not detected in any of the samples. Non-detected compounds are not qualified for this criterion.

E2P05, E2P14, E2P15
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene

E2P08
1,1-Dichloroethene, trans-1,2-Dichloroethene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Bromochloromethane, Chloroform, Dibromochloromethane, Bromoform

The following trace volatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than 20%. The presence of 1,1-Dichloroethane and 1,1,1-Trichloroethane in samples E2P10 and E2P16 are qualified "J". Non-detected compounds are qualified "UJ". The non-detect for 1,4-Dioxane in sample E2P07DL is qualified "R" because all calibration criteria were not met.

E2P00, E2P02, E2P03DL, E2P04, E2P05, E2P09, E2P11, E2P17, E2P46, E2P46DL, E2P47, E2P47MS, E2P47MSD
Cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane

E2P07DL
1,4-Dioxane, Cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane

E2P10, E2P16
Trichlorofluoromethane, 1,1-Dichloroethene, 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, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane, Dibromochloromethane, 1,2-Dibromoethane, Bromoform

Case Number: 35998 SDG Number: E2P00
Site Name: Lusher Street Groundwater Contam. (IN) Laboratory: KAP Technologies

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E2P47 was designated by the samplers to be used for laboratory QC, i.e. matrix spike / matrix spike duplicate analyses.

No problems were found.

6B. LABORATORY CONTROL SAMPLE

Not applicable for the trace volatile analyses.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as trip blanks, field blanks or field duplicates.

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

8. INTERNAL STANDARDS

No problems were found.

9. COMPOUND IDENTIFICATION

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

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

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

E2P02
1,1-Dichloroethane

E2P03DL, E2P05
1,1,1-Trichloroethane

E2P11
Trichlorofluoromethane

VBLKDE, VBLKDP
Methylene chloride

VBLKDR
1,2,3-Trichlorobenzene

Case Number: 35998
Site Name: Lusher Street Groundwater Contam. (IN)

SDG Number: E2P00
Laboratory: KAP Technologies

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

The following volatile sample have analyte concentrations which exceed the instruments calibration range. The detected results are qualified "J". The results from the diluted analyses should be considered the final concentrations for the affected analytes.

E2P01, E2P03, E2P10, E2P16, E2P17
1,1,1-Trichloroethane, Trichloroethene

E2P07, E2P46
Trichloroethene

The Laboratory's Form Is and CADRE reported the following analyte concentration in sample E2P16; Benzene @ 0.21 µg/L, 1,4-Dioxane @ 0.42 µg/L and Methylcyclohexane @ 0.42 µg/L. The reviewer was unable to find any evidence in the raw data submitted to validate the detections; therefore they were regarded as non-detects. Copies of the Form Is and the quantitation report (pp 355 thru 371) are included with the hard copy data.

The Laboratory Form Is and CADRE did not report the following analyte concentrations. Trichlorofluoromethane @ 0.24 µg/L in sample E2P11 and 1,2,3-Trichlorobenzene @ 0.27 µg/L in method blank VBLKDR. No comments were found in the data or the SDG Narrative to explain why the concentrations were not reported by the Laboratory. Target analytes were corrected to reflect the concentrations evidenced in the raw data. Copies of the Form Is and the quantitation reports (pp 282 thru 297 and 956 thru 971) are included with the hard copy data.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: January 17, 2007

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.)

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P00 Location=DW1 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.83	1.6		NJ
	Unknown-02	19.27	1.3		J
	Unknown-03	19.29	0.72		J
	Unknown-04	22.6	0.55		J

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Lab KAP (KAP Technologies Inc) **SDG** E2F00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P01DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2F00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA Trace Sample=E2P02 Location=DW11 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	15.83	4.1		J
	Unknown-03	17.21	3.0		J
	Unknown-04	19.27	2.7		J
	Unknown-05	22.59	2.6		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P03DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	7.45	58	UG/L	DJ

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P04 Location=DW4 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
000498-60-2	3-Furaldehyde	15.15	0.67		NJ
	Unknown-02	19.32	1.4		J
	Unknown-03	21.29	0.52		J

National Functional Guidelines Report # 9

Fri, Dec 29, 2006

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P05 Location=DW5 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.83	2.0		NJ

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P06 Location=DW6 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P07 Location=DW7 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.87	0.54		NJ

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P07DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	15.86	1.1		DJ

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P08 Location=DW9 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA Trace Sample=E2P09 Location=DW10 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P10 Location=DW22 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.88	0.69	UG/L	NJ

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P10DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P11 Location=DW16 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	15.88	2.1		J

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P12 Location=DW17 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA Trace Sample=E2P13 Location=DW20 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P14 Location=DW19 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA Trace Sample=E2P15 Location=DW25 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P16 Location=DW24 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	15.88	0.94	UG/L	J
	Unknown-02	19.34	0.86		J

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Fri, Dec 29, 2006

Lab KAP.(KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P16DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

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Fri, Dec 29, 2006

Lab KAP (KAP Technologies Inc) SDG E2P00 Case 35998 Contract EPW05032 Region 5 DDTID 33348

Tentatively identified Compounds

VOA Trace Sample=E2P17 Location=DW21 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.88	1.7	UG/L	NJ
	Unknown-01	19.34	1.9		J
	Unknown-02	23.62	0.72		J

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P17DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	2.94	5.3	UG/L	DJ

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P46 Location=DW8 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	15.88	0.81		J

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P46DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

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Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=E2P47 Location=DW12 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	19.32	0.61		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=VBLKDE Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.82	10	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P0C **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=VBLKDI Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.87	9.0	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=VBLKDK Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.87	9.5	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=VBLKDN Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.72	8.0	UG/L	J
	Unknown-02	10.87	9.8		J
	Unknown-03	15.47	7.7		J

Lab KAP (KAP Technologies Inc) SDG E2P00 Case 35998 Contract EPW05032 Region 5 DDTID 33348

Tentatively identified Compounds

VOA_Trace Sample=VBLKDP Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.87	9.5	UG/L	J
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.86	0.53		NJ

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 . **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=VBLKDR Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	2.93	0.94	UG/L	J
	Unknown-02	10.88	12		J
	Unknown-03	20.17	1.1		J
	Unknown-04	21.05	0.61		J
000120-82-1	Benzene, 1,2,4-trichloro-	21.39	0.86		NJ
000120-82-1	Benzene, 1,2,4-trichloro-	22.37	0.86		NJ

040

Lab KAP (KAP Technologies Inc) **SDG** E2P00 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33348

Tentatively identified Compounds

VOA_Trace Sample=VBLKDT Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.88	11	UG/L	J

National Functional Guidelines Report # 9

ab KAP (KAP Technologies Inc) SDG E2P00 Case 35998 Contract EPW05032 Region 5 DDTID 33348

Tentatively identified Compounds

VOA Trace Sample=VBLKEI Location=No TR data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.9	12	UG/L	J

National Functional Guidelines Report # 9

ab KAP (KAP Technologies Inc) SDG E2P00 Case 35998 Contract EPW05032 Region 5 DDTID 33348

Tentatively identified Compounds

VOA Trace Sample=VHBLK01 Location=No TR data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P00		E2P01		E2P01DL		E2P02		E2P03	
Sampling Location :	DW1		DW2		DW2		DW11		DW3	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/5/2006		12/5/2006				12/5/2006		12/5/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		40.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	20	U	0.50	U	1.3	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	200	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.50	U	20	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	3.3		20	U	0.41	J	3.0	
cis-1,2-Dichloroethene	0.50	U	4.9		20	U	0.64		4.2	
2-Butanone	5.0	U	5.0	U	200	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	45	J	39		2.6		43	J
Cyclohexane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	800	R	20	R	20	R
Trichloroethene	0.50	U	340	J	640		7.4		370	J
Methylcyclohexane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	UJ	0.50	U	20	U	0.50	UJ	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	200	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	UJ	0.50	U	20	U	0.50	UJ	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P00		E2P01		E2P01DL		E2P02		E2P03	
Sampling Location :	DW1		DW2		DW2		DW11		DW3	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/5/2006		12/5/2006				12/5/2006		12/5/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		40.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	UJ	0.50	U	20	U	0.50	UJ	0.50	U
Tetrachloroethene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	200	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	20	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	20	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	20	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P03DL		E2P04		E2P05		E2P06		E2P07	
Sampling Location :	DW3		DW4		DW5		DW6		DW7	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :			12/5/2006		12/5/2006		12/5/2006		12/6/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	80.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	400	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	40	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	400	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	40	U	0.50	U	0.50	U	15		0.50	U
1,1,1-Trichloroethane	39	J	2.0		0.34	J	0.50	U	4.2	
Cyclohexane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	1600	R	20	R	20	R	20	R	20	R
Trichloroethene	620		0.50	U	0.50	U	0.50	U	24	J
Methylcyclohexane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	40	U	0.50	U	0.50	U	5.5		0.50	U
cis-1,3-Dichloropropene	40	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U
4-Methyl-2-pentanone	400	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	40	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P03DL		E2P04		E2P05		E2P06		E2P07	
Sampling Location :	DW3		DW4		DW5		DW6		DW7	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :			12/5/2006		12/5/2006		12/5/2006		12/6/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	80.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	40	UJ	0.50	UJ	0.50	UJ	0.50	U	0.50	U
Tetrachloroethene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	400	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	40	U	0.50	U	0.50	U	1.4		0.50	U
1,2-Dibromoethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
m,p-Xylene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	40	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	40	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	40	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P07DL		E2P08		E2P09		E2P10		E2P10DL	
Sampling Location :	DW7		DW9		DW10		DW22		DW22	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :			12/5/2006		12/5/2006		12/5/2006			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	2.0		1.0		1.0		1.0		10.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Chloromethane	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Vinyl chloride	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Bromomethane	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Chloroethane	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Trichlorofluoromethane	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
1,1-Dichloroethene	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
Acetone	10	U	5.0	U	5.0	U	5.0	U	50	U
Carbon disulfide	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Methyl acetate	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
Methylene chloride	7.7	U	0.50	U	0.50	U	0.50	UJ	28	U
trans-1,2-Dichloroethene	1.0	U	0.50	U	0.50	U	4.8	J	6.5	
Methyl tert-butyl ether	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
1,1-Dichloroethane	1.0	U	0.50	U	0.50	U	5.9	J	8.8	
cis-1,2-Dichloroethene	1.0	U	0.50	U	0.72		16	J	16	
2-Butanone	10	U	5.0	U	5.0	U	5.0	U	50	U
Bromochloromethane	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
Chloroform	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
1,1,1-Trichloroethane	4.4		3.2		2.8		50	J	63	
Cyclohexane	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Carbon tetrachloride	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
Benzene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
1,2-Dichloroethane	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
1,4-Dioxane	40	R	20	R	20	R	20	R	200	R
Trichloroethene	24		0.50	U	7.9		67	J	79	
Methylcyclohexane	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
1,2-Dichloropropane	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Bromodichloromethane	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
cis-1,3-Dichloropropene	1.0	UJ	0.50	U	0.50	UJ	0.50	UJ	5.0	U
4-Methyl-2-pentanone	10	U	5.0	U	5.0	U	5.0	U	50	U
Toluene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
trans-1,3-Dichloropropene	1.0	UJ	0.50	U	0.50	UJ	0.50	UJ	5.0	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P07DL		E2P08		E2P09		E2P10		E2P10DL	
Sampling Location :	DW7		DW9		DW10		DW22		DW22	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :			12/5/2006		12/5/2006		12/5/2006			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	2.0		1.0		1.0		1.0		10.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	1.0	UJ	0.50	U	0.50	UJ	0.50	UJ	5.0	U
Tetrachloroethene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
2-Hexanone	10	U	5.0	U	5.0	U	5.0	U	50	U
Dibromochloromethane	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
1,2-Dibromoethane	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
Chlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Ethylbenzene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
o-Xylene	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
m,p-Xylene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Styrene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
Bromoform	1.0	U	0.50	U	0.50	U	0.50	UJ	5.0	U
Isopropylbenzene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
1,1,2,2-Tetrachloroethane	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
1,3-Dichlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
1,4-Dichlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
1,2-Dichlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
1,2-Dibromo-3-chloropropane	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
1,2,4-Trichlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U
1,2,3-Trichlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	5.0	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P11		E2P12		E2P13		E2P14		E2P15	
Sampling Location :	DW16		DW17		DW20		DW19		DW25	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/5/2006		12/5/2006		12/5/2006		12/5/2006		12/5/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.24	J	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	13		0.50	U	0.50	U	0.87		0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	20	R	20	R	20	R
Trichloroethene	0.50	U	15		1.6		0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P11		E2P12		E2P13		E2P14		E2P15	
Sampling Location :	DW16		DW17		DW20		DW19		DW25	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/5/2006		12/5/2006		12/5/2006		12/5/2006		12/5/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.67		0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P16		E2P16DL		E2P17		E2P17DL		E2P46	
Sampling Location :	DW24		DW24		DW21		DW21		DW8	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006				12/5/2006				12/6/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		5.0		1.0		10.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Chloromethane	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Vinyl chloride	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Bromomethane	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Chloroethane	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Trichlorofluoromethane	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
1,1-Dichloroethene	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
Acetone	5.0	U	25	U	5.0	U	50	U	5.0	U
Carbon disulfide	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Methyl acetate	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
Methylene chloride	0.50	UJ	14	U	0.50	U	25	U	0.50	U
trans-1,2-Dichloroethene	3.9		4.4		4.9		6.1		0.50	U
Methyl tert-butyl ether	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
1,1-Dichloroethane	6.2	J	8.0		6.2		8.6		0.50	U
cis-1,2-Dichloroethene	13		12		16		15		0.50	U
2-Butanone	5.0	U	25	U	5.0	U	50	U	5.0	U
Bromochloromethane	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
Chloroform	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
1,1,1-Trichloroethane	23	J	25		55	J	59		3.5	
Cyclohexane	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Carbon tetrachloride	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
Benzene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
1,2-Dichloroethane	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
1,4-Dioxane	20	R	100	R	20	R	200	R	20	R
Trichloroethene	43	J	45		73	J	73		21	J
Methylcyclohexane	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
1,2-Dichloropropane	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Bromodichloromethane	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
cis-1,3-Dichloropropene	0.50	UJ	2.5	U	0.50	UJ	5.0	U	0.50	UJ
4-Methyl-2-pentanone	5.0	U	25	U	5.0	U	50	U	5.0	U
Toluene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
trans-1,3-Dichloropropene	0.50	UJ	2.5	U	0.50	UJ	5.0	U	0.50	UJ

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P16		E2P16DL		E2P17		E2P17DL		E2P46	
Sampling Location :	DW24		DW24		DW21		DW21		DW8	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006				12/5/2006				12/6/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		5.0		1.0		10.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	UJ	2.5	U	0.50	UJ	5.0	U	0.50	UJ
Tetrachloroethene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
2-Hexanone	5.0	U	25	U	5.0	U	50	U	5.0	U
Dibromochloromethane	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
1,2-Dibromoethane	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
Chlorobenzene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Ethylbenzene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
o-Xylene	0.50	UJ	2.5	U	0.50	UJ	5.0	U	0.50	UJ
m,p-Xylene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Styrene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
Bromoform	0.50	UJ	2.5	U	0.50	U	5.0	U	0.50	U
Isopropylbenzene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
1,3-Dichlorobenzene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
1,4-Dichlorobenzene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
1,2-Dichlorobenzene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	2.5	U	0.50	U	5.0	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P46DL		E2P47		E2P47MS		E2P47MSD		VBLKDE	
Sampling Location :	DW8		DW12		DW12		DW12			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :			12/5/2006							
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2			
Dilution Factor :	2.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	1.0	U	0.50	U	5.3		5.0		0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	10	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	3.7	U	0.50	U	0.50	U	0.50	U	0.29	J
trans-1,2-Dichloroethene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	10	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	4.7		0.70		0.58		0.58		0.50	U
Cyclohexane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	1.0	U	0.50	U	5.0		4.9		0.50	U
1,2-Dichloroethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	40	R	20	R	20	R	20	R	20	R
Trichloroethene	26		0.50	U	4.2		4.2		0.50	U
Methylcyclohexane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	1.0	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U
4-Methyl-2-pentanone	10	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	1.0	U	0.50	U	5.3		5.3		0.50	U
trans-1,3-Dichloropropene	1.0	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P46DL		E2P47		E2P47MS		E2P47MSD		VBLKDE	
Sampling Location :	DW8		DW12		DW12		DW12			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :			12/5/2006							
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2			
Dilution Factor :	2.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	1.0	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U
Tetrachloroethene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	10	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	1.0	U	0.50	U	5.0		5.0		0.50	U
Ethylbenzene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	1.0	U	0.50	U	0.50	UJ	0.50	UJ	0.50	U
m,p-Xylene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	1.0	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	VBLKDI		VBLKDK		VBLKDN		VBLKDP		VBLKDR	
Sampling Location :										
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.90		0.75		0.29	J	0.52	
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	20	R	20	R	20	R
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	VBLKDI		VBLKDK		VBLKDN		VBLKDP		VBLKDR	
Sampling Location :										
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	UJ
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.27	J

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	VBLKDT		VBLKEI		VHBLK01					
Sampling Location :										
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U				
Chloromethane	0.50	U	0.50	U	0.50	U				
Vinyl chloride	0.50	U	0.50	U	0.50	U				
Bromomethane	0.50	U	0.50	U	0.50	U				
Chloroethane	0.50	U	0.50	U	0.50	U				
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U				
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U				
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U				
Acetone	5.0	U	5.0	U	5.0	U				
Carbon disulfide	0.50	U	0.50	U	0.50	U				
Methyl acetate	0.50	U	0.50	U	0.50	U				
Methylene chloride	0.50	U	0.50	U	0.50	U				
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U				
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U				
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U				
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U				
2-Butanone	5.0	U	5.0	U	5.0	U				
Bromochloromethane	0.50	U	0.50	U	0.50	U				
Chloroform	0.50	U	0.50	U	0.50	U				
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U				
Cyclohexane	0.50	U	0.50	U	0.50	U				
Carbon tetrachloride	0.50	U	0.50	U	0.50	U				
Benzene	0.50	U	0.50	U	0.50	U				
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U				
1,4-Dioxane	20	R	20	R	20	R				
Trichloroethene	0.50	U	0.50	U	0.50	U				
Methylcyclohexane	0.50	U	0.50	U	0.50	U				
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U				
Bromodichloromethane	0.50	U	0.50	U	0.50	U				
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U				
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U				
Toluene	0.50	U	0.50	U	0.50	U				
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U				

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P00
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	VBLKDT		VBLKEI		VHBLK01					
Sampling Location :										
Matrix :	Water		Water		Water					
Units :	ug/L		ug/L		ug/L					
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A					
pH :										
Dilution Factor :	1.0		1.0		1.0					
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U				
Tetrachloroethene	0.50	U	0.50	U	0.50	U				
2-Hexanone	5.0	U	5.0	U	5.0	U				
Dibromochloromethane	0.50	U	0.50	U	0.50	U				
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U				
Chlorobenzene	0.50	U	0.50	U	0.50	U				
Ethylbenzene	0.50	U	0.50	U	0.50	U				
o-Xylene	0.50	UJ	0.50	U	0.50	U				
m,p-Xylene	0.50	U	0.50	U	0.50	U				
Styrene	0.50	U	0.50	U	0.50	U				
Bromoform	0.50	U	0.50	U	0.50	U				
Isopropylbenzene	0.50	U	0.50	U	0.50	U				
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U				
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U				
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U				
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U				
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U				
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U				
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U				

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 28 Dec 04

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

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE NAME: Usher Street Groundwater Contamination (IN)

CASE NUMBER: 35998 SDG NUMBER: E2P00

Number and Type of Samples: 20 water samples

Sample Numbers: E2P00-17; 46-47

Laboratory: KAP Technologies Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E2P00

Laboratory Name Kap Technologies Inc Lab Code KAP

Contract No. EPW05032 Case No. 35998

Analysis Price _____ SDG Turnaround 21 Days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E2P00	7) E2P06	13) E2P12	19) E2P46
2) E2P01	8) E2P07	14) E2P13	20) E2P47
3) E2P02	9) E2P08	15) E2P14	21)
4) E2P03	10) E2P09	16) E2P15	22)
5) E2P04	11) E2P10	17) E2P16	23)
6) E2P05	12) E2P11	18) E2P17	24)

First Sample in SDG	Last Sample in SDG
E2P00	E2P47
First Sample Receipt Date Date	**Last Sample Receipt**
12/07/06	12/07/06

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

Signature _____ Date 12/11/06

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

Case No: 35998
DAS No:
SDG No: E2P00

L

Date Shipped:	12/6/2006
Carrier Name:	FedEx
Airbill:	811417053168
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	12/6/06 8:30 AM		
2			
3			
4		J. Thomas	12-7-06 935

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW05032
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
E2P00	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244700 (HCL) (1)	DW1	S: 12/5/2006	16:33	5-0349.01	Firm to soft
E2P01	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244701 (HCL) (1)	DW2	S: 12/5/2006	17:35	.02	
E2P02	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244710 (HCL) (1)	DW11	S: 12/5/2006	18:09	.03	
E2P03	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244702 (HCL) (1)	DW3	S: 12/5/2006	17:35	.04	
E2P04	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244703 (HCL) (1)	DW4	S: 12/5/2006	17:08	.05	
E2P05	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244704 (HCL) (1)	DW5	S: 12/5/2006	19:53	.06	
E2P06	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244705 (HCL) (1)	DW6	S: 12/5/2006	16:55	.07	
E2P07	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244706 (HCL) (1)	DW7	S: 12/6/2006	11:02	.08	
E2P08	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244708 (HCL) (1)	DW9	S: 12/5/2006	17:05	.09	
E2P09	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244709 (HCL) (1)	DW10	S: 12/5/2006	18:09	.10	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E2P47	Additional Sampler Signature(s): [illegible], J. Murphy	Cooler Temperature Upon Receipt: 2°	Chain of Custody Seal Number: 185794, 185793
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

062 00005

TR Number: 5-342946689-120606-0001

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

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

Case No: 35998
DAS No:
SDG No: E2P00

L

Date Shipped:	12/6/2006
Carrier Name:	FedEx
Airbill:	811417053157
Shipped to:	KAP Technologies inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	12-6-06 8:30		
2			
3			
4		[illegible]	12-7-06 935

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW05032
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
E2P10	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244727 (HCL) (1)	DW22	S: 12/5/2006	11:45	S-0349.11	
E2P11	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244720 (HCL) (1)	DW16	S: 12/5/2006	13:00	.12	
E2P12	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244721 (HCL) (1)	DW17	S: 12/5/2006	16:30	.13	
E2P13	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244725 (HCL) (1)	DW20	S: 12/5/2006	15:30	.14	
E2P14	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244723 (HCL) (1)	DW19	S: 12/5/2006	17:15	.15	
E2P15	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244728 (HCL) (1)	DW25	S: 12/5/2006	12:25	.16	
E2P16	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244724 (HCL) (1)	DW24	S: 12/6/2006	10:15	.17	
E2P17	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244726 (HCL) (1)	DW21	S: 12/5/2006	11:30	.18	
E2P18	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244722 (HCL) (1)	DW18	S: 12/5/2006	16:30		
E2P19	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244729 (HCL) (1)	DW26	S: 12/5/2006	13:45		

ORIGINAL
Case: 35998 SDG: E2P00
Episode: S-0349 Init/date: 12-7-06

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E2P48	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number: 185681, 185663
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

063 00005

TR Number: 5-342946689-120606-0002

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
Organic Traffic Report & Chain of Custody Record

Case No: 35998
DAS No:
SDG No: E2P00

L

Date Shipped:	12/6/2006
Carrier Name:	FedEx
Airbill:	811417053168
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	12-6-06/8:30 AM		
2			
3			
4		[signature]	12-7-06 935

Sampler Signature:

For Lab Use Only

Lab Contract No:	EPW05032
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
E2P46	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244707 (HCL) (1)	DW8	S: 12/6/2006 11:02	S-0349.19	
E2P47	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244711 (HCL), 5244712 (HCL), 5244713 (HCL) (3)	DW12	S: 12/5/2006 18:46	↓ .20	Finalsx 504.

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E2P47	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 2°c	Chain of Custody Seal Number: 185794, 185793
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

TR Number: 5-342946689-120606-0001

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

064 00007

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

Contract No. EPW05032	Case No. 35998	SDG No. E2P00

SDG NARRATIVE

SAMPLE RECEIPT:

On 12/07/06 @ 09:35 A.M. - Received two coolers via FedEx with shipment numbers 811417053168 and 811417053157. The coolers temperatures were 2^0C and 2^0C.
The coolers contained the following samples for Trace-VOA analyses.
The custody seals and the samples were intact.

EPA SAMPLE ID	pH	EPA SAMPLE ID	pH
E2P00	<2	E2P10	<2
E2P01	<2	E2P11	<2
E2P02	<2	E2P12	<2
E2P03	<2	E2P13	<2
E2P04	<2	E2P14	<2
E2P05	<2	E2P15	<2
E2P06	<2	E2P16	<2
E2P07	<2	E2P17	<2
E2P08	<2	E2P46	<2
E2P09	<2	E2P47	<2
E2P01DL	<2	E2P16DL	<2
E2P03DL	<2	E2P17DL	<2
E2P10DL	<2	E2P07DL	<2
E2P46DL	<2		<2

No problems were encountered during sample receiving and login.

TRACE VOLATILES:

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

A 25 mL purge volume was used for Trace-water sample analyses, blanks and calibration standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).

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

Contract No. EPW05032	Case No. 35998	SDG No. E2P00

SDG NARRATIVE

The water samples were analyzed for Trace Volatiles in according the SOM 1.1 statement of work.

The samples E2P01, E2P03, E2P10, E2P07, E2P16, E2P17 and E2P46 had the target compound concentrations above the calibration range and were analyzed using the dilutions. The samples using the dilutions are also billable.

No other problems were encountered during the analysis of this sample.

Manual Integrations

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

VSTD0.5DD -Trichlorofluoromethane
VSTD0.5DD - Methyl Acetate
VSTD001DD – 1,1,2-Trichloro-1,2,2-trif
VSTD001DD – Methyl Acetate
VSTD005DD -Trichlorofluoromethane
VSTD005DD – Methyl Acetate
VSTD010DD -Trichlorofluoromethane
VSTD010DD – Methyl Acetate
VSTD020DD -Trichlorofluoromethane
VSTD020DD – Methyl Acetate
VSTD0.5DR -Trichlorofluoromethane
VSTD001DR -Trichlorofluoromethane
VSTD010DR –Trichlorofluoromethane
VSTD020DR - Dichlorodifluoromethane
VSTD020DR - Trichlorofluoromethane
VSTD005DR - Trichlorofluoromethane
VSTD005DR - Methyl Acetate
VSTD0.5EI – 2-Butanone-d5
VSTD0.5EI – Methyl Acetate
VSTD001EI -Trichlorofluoromethane
VSTD001EI –Carbon Disulfide
VSTD005EI – 2-Butanone
VSTD010EI -Trichlorofluoromethane
VSTD010EI – 1,2-Dichloroethane
VSTD020EI –Trichlorofluoromethane
VSTD005DE -Trichlorofluoromethane
VSTD005DF -Trichlorofluoromethane
VSTD005DI -Trichlorofluoromethane
VSTD005DJ -Trichlorofluoromethane
VSTD005DK –Trichlorofluoromethane
VSTD005DL - Dichlorodifluoromethane
VSTD005DL – Trichlorofluoromethane

KAP TECHNOLOGIES, INC.
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Contract No. EPW05032	Case No. 35998	SDG No. E2P00

SDG NARRATIVE

VSTD005DL -1,2-Dichloroethane
VSTD005DN –Trichlorofluoromethane
VSTD005DO –Trichlorofluoromethane
VSTD005DP -Trichlorofluoromethane
VSTD005DP – 2-Butanone
VSTD005DQ -Trichlorofluoromethane
VSTD005DQ – Acetone
VSTD005DQ - Methyl Acetate
VSTD005DS -Trichlorofluoromethane
VSTD005DT –Trichlorofluoromethane
VSTD005DT – 1,2-Dichloropropane

The formula used to calculate the Sample concentration:

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

Where,
A_x = Area of the characteristic ion (EICP) for the compound to be measured.
A_{is} = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.
RRF = Mean relative Response Factor from the initial calibration standard.
V_o = Total Volume of water purged, in ml.
DF = Dilution Factor.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature:

[signature] /QCcal
Signature/Title

12/27/06
Date of Signature

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VIBLK02	110	108	94	111	107	111	97
02	E2P11	114	108	97	108	107	110	97
03	E2P16	76	74	65	74	73 *	74 *	95
04	VIBLK03	118	115	98	107	111	115	99
05	E2P17	82	80	71	81	80	79	102
06	VIBLK04	119	112	100	114	112	116	100
07	E2P46	84	81	70	77	80	81	97
08	VBLKDT	123	116	101	114	114	116	104
09	E2P47MS	95	96	101	88	92	95	96
10	E2P47MSD	86	82	91	92	82	86	90
11	VBLKEI	105	105	80	99	102	104	87
12	VHBLK01	108	109	84	99	104	107	88
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14								
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16								
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	QC LIMITS
VDMC1 (VCL) = Vinyl Chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

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

SOM01.1 (5/2005)

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VIBLK02	96	105	87	113	123	102	121	0
02	E2P11	94	106	69 *	95	146	100	110	1
03	E2P16	94	102	66 *	93	73	99	114	3
04	VIBLK03	98	110	86	103	116	104	127	0
05	E2P17	102	112	71 *	99	85	85	124	1
06	VIBLK04	98	109	93	107	125	99	127	0
07	E2P46	95	106	64 *	100	76	81	120	1
08	VBLKDT	102	113	76	110	117	89	122	0
09	E2P47MS	93	104	67 *	97	89	80	122	1
10	E2P47MSD	88	95	64 *	108	107	77	110	1
11	VBLKEI	89	97	79	97	94	81	116	0
12	VHBLK01	90	100	86	98	96	86	120	0
13									
14									
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29									
30									

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

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

SOM01.1 (5/2005)

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLKDE	126	127	104	110	115	119	98
02	E2P00	126	126	103	101	113	114	95
03	E2P02	104	102	83	93	93	95	101
04	E2P05	131	131	106 *	116	118	121	99
05	VBLKDI	109	105	87	100	102	100	102
06	E2P08	131	125	106 *	105	121 *	118	116
07	E2P06	116	111	94	107	114	109	101
08	E2P07	94	90	75	87	84	86	98
09	VIELK01	126	120	102	114	116	114	105
10	E2P01	93	89	82	90	86	86	104
11	VBLKDK	124	119	100	116	112	110	105
12	E2P09	100	97	81	97	91	91	102
13	E2P12	101	97	80	81	90	91	104
14	E2P13	119	118	96	101	107	109	108
15	E2P14	128	130	106 *	115	118	121	110
16	E2P15	130	128	106 *	112	120	121	107
17	E2P03	99	98	85	92	90	91	112
18	VELKDN	116	129	103	100	108	109	104
19	E2P01DL	101	99	83	82	91	93	105
20	E2P03DL	100	101	82	92	93	96	102
21	E2P10DL	112	108	91	85	101	101	108
22	E2P16DL	106	104	86	97	98	99	109
23	E2P17DL	109	109	90	103	101	102	109
24	E2P07DL	101	99	79	85	91	90	103
25	E2P46DL	107	108	87	99	98	100	111
26	VBLKDP	125	123	100	95	112	111	98
27	E2P47	125	125	98	101	113	112	96
28	E2P04	120	124	95	98	109	109	93
29	VBLKDR	115	115	97	107	111	113	99
30	E2P10	74	75	65	80	78 *	78 *	96

	QC LIMITS
VDMC1 (VCL) = Vinyl Chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

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

SOM01.1 (5/2005)

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLKDE	97	95	88	94	88	99	111	0
02	E2P00	96	93	65 *	91	103	88	106	1
03	E2P02	105	101	71 *	102	66	99	117	1
04	E2P05	101	98	72 *	103	83	100	117	2
05	VBLKDI	101	99	83	102	105	100	104	0
06	E2P08	116	115	85	97	95	103	119	2 X
07	E2P06	102	99	78	102	104	97	110	0
08	E2P07	100	97	73	102	93	94	102	0
09	VIBLK01	105	102	100	105	85	113	115	0
10	E2P01	106	98	78	103	70	95	109	0
11	VBLKDK	105	102	83	108	103	101	106	0
12	E2P09	105	98	73 *	107	103	93	106	0
13	E2P12	108	102	75	95	78	96	112	0
14	E2P13	109	106	81	102	88	98	118	0
15	E2P14	110	106	77	105	94	101	118	1
16	E2P15	108	105	75	106	99	98	119	1
17	E2P03	115	107	74	104	63	98	123	0
18	VBLKDN	103	100	78	98	97	100	101	0
19	E2P01DL	106	102	76	99	68	101	108	0
20	E2P03DL	103	99	69 *	105	61	101	109	1
21	E2P10DL	107	104	76	101	82	103	113	0
22	E2P16DL	109	103	73	108	72	98	114	0
23	E2P17DL	111	104	74	113	78	100	121	0
24	E2P07DL	104	98	69 *	99	50 *	94	115	2 X
25	E2P46DL	113	107	72 *	110	97	99	127	1
26	VBLKDP	97	94	93	84	101	109	99	0
27	E2P47	95	94	61 *	86	110	85	101	1
28	E2P04	94	89	62 *	83	114	86	101	1
29	VBLKDR	99	109	84	103	122	94	122	0
30	E2P10	96	105	67 *	99	86	78	114	3 X

acH 1-16-07

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

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

SOM01.1 (5/2005)

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Matrix Spike - EPA Sample No.: E2P47 Level: (TRACE/LOW) TRACE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	5	0	5.3	106	61-145
Trichloroethene	5	0	4.2	84	71-120
Benzene	5	0	5.0	100	76-127
Toluene	5	0	5.3	106	76-125
Chlorobenzene	5	0	5.0	100	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5	5.0	100	6	14	61-145
Trichlcroethene	5	4.2	84	0	14	71-120
Benzene	5	4.9	98	2	11	76-127
Toluene	5	5.3	106	0	13	76-125
Chlorobenzene	5	5.0	100	0	13	75-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

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

COMMENTS: _____

_____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Lab File ID: A06597 Lab Sample ID: VBLKDE

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/08/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1116

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P00	S-0349.01	A06598	1156
02	E2P02	S-0349.03	A06599	1231
03	E2P05	S-0349.06	A06601	1341
04				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDI

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Lab File ID: A06617 Lab Sample ID: VBLKDI

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/11/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1252

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P08	S-0349.09	A06618	1338
02	E2P06	S-0349.07	A06619	1413
03	E2P07	S-0349.08	A06620	1451
04	VIBLK01	VIBLK01	A06621	1526
05	E2P01	S-0349.02	A06622	1602
06				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDK

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Lab File ID: A06626 Lab Sample ID: VBLKDK

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/11/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1813

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P09	S-0349.10	A06627	1847
02	E2P12	S-0349.13	A06628	1957
03	E2P13	S-0349.14	A06629	2031
04	E2P14	S-0349.15	A06630	2105
05	E2P15	S-0349.16	A06631	2140
06	E2P03	S-0349.04	A06640	0251
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08				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDN

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Lab File ID: A06653 Lab Sample ID: VBLKDN

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/12/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1659

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P01DL	S-0349.02DL	A06654	1736
02	E2P03DL	S-0349.04DL	A06655	1810
03	E2P10DL	S-0349.11DL	A06656	1847
04	E2P16DL	S-0349.17DL	A06657	1922
05	E2P17DL	S-0349.18DL	A06658	1957
06	E2P07DL	S-0349.08DL	A06659	2032
07	E2P46DL	S-0349.19DL	A06660	2108
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09				
10				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDP

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Lab File ID: A06676 Lab Sample ID: VBLKDP

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/13/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1143

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P47	S-0349.20	A06677	1217
02	E2P04	S-0349.05	A06678	1251
03				
04				
05				
06				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDR

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Lab File ID: A06696 Lab Sample ID: VBLKDR

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/14/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1144

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P10	S-0349.11	A06697	1226
02	VIBLK02	VIBLK02	A06698	1300
03	E2P11	S-0349.12	A06699	1343
04	E2P16	S-0349.17	A06700	1418
05	VIBLK03	VIBLK03	A06701	1453
06	E2P17	S-0349.18	A06702	1528
07	VIBLK04	VIBLK04	A06703	1603
08	E2P46	S-0349.19	A06704	1641
09				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDT

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Lab File ID: A06708 Lab Sample ID: VBLKDT

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/14/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1839

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P47MS	S-0349.20MS	A06709	1928
02	E2P47MSD	S-0349.20MSD	A06710	2003
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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27				
28				
29				
30				

COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKEI

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Lab File ID: A06849 Lab Sample ID: VBLKEI

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/20/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1602

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLK01	S-0349.21	A06850	1637
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
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19				
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22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS: _____

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
E2P11

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0349.12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06699

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	13	
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

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

EPA SAMPLE NO.
E2P11

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0349.12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06699

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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

EPA SAMPLE NO.
E2P11

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0349.12

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06699

Level: (TRACE or LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.88	10	JBU
02		Unknown-02	15.88	2.1	J
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
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19					
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21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	0	

acf 1-13-07

[1] EPA-designated Registry Number.

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\A-5973\A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 15 10:00:33 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Dec 14 11:01:40 2006
Response via : Initial Calibration

tr 12/21/06

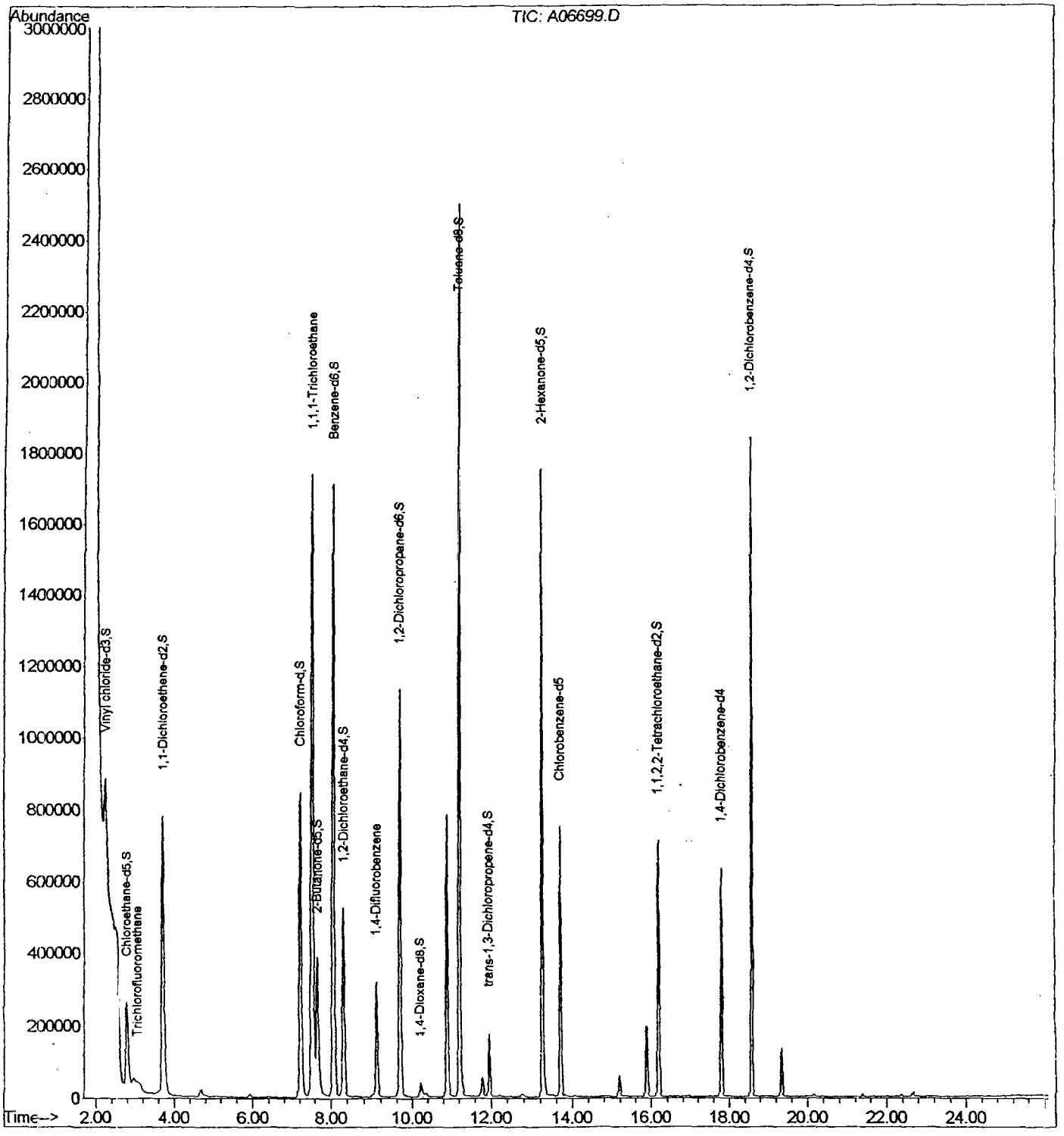
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.09	114	4134408	5.00	ug/L	0.01
30) Chlorobenzene-d5	13.70	117	6095902	5.00	ug/L	0.01
61) 1,4-Dichlorobenzene-d4	17.80	152	2517489	5.00	ug/L	0.01
System Monitoring Compounds						
4) Vinyl chloride-d3	2.24	65	7103386	5.68	ug/L	-0.01
Spiked Amount 5.000	Range 65 - 131		Recovery = 113.60%			
7) Chloroethane-d5	2.77	69	4971411	5.40	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 108.00%			
10) 1,1-Dichloroethene-d2	3.70	63	12842801	4.87	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 97.40%			
21) 2-Butanone-d5	7.66	46	10777246	53.82	ug/L	0.01
Spiked Amount 50.000	Range 49 - 155		Recovery = 107.64%			
24) Chloroform-d	7.23	84	13100001	5.36	ug/L	0.01
Spiked Amount 5.000	Range 78 - 121		Recovery = 107.20%			
26) 1,2-Dichloroethane-d4	8.30	65	6898491m	5.48	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 109.60%			
28) 1,4-Dioxane-d8	10.20	96	673846	363.87	ug/L	0.00
Spiked Amount 250.000	Range 50 - 150		Recovery = 145.55%			
34) Benzene-d6	8.06	84	27482937	4.83	ug/L	0.01
Spiked Amount 5.000	Range 77 - 124		Recovery = 96.60%			
38) 1,2-Dichloropropane-d6	9.68	67	7832659	4.70	ug/L	0.01
Spiked Amount 5.000	Range 79 - 124		Recovery = 94.00%			
43) Toluene-d8	11.21	98	24958454	5.28	ug/L	0.01
Spiked Amount 5.000	Range 77 - 121		Recovery = 105.60%			
45) trans-1,3-Dichloropropene-	11.95	79	1394016	3.46	ug/L	0.01
Spiked Amount 5.000	Range 73 - 121		Recovery = 69.20%#			
49) 2-Hexanone-d5	13.25	63	7423080	47.27	ug/L	0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 94.54%			
59) 1,1,2,2-Tetrachloroethane-	16.18	84	5859532	4.99	ug/L	0.01
Spiked Amount 5.000	Range 73 - 125		Recovery = 99.80%			
65) 1,2-Dichlorobenzene-d4	18.57	152	7426901	5.51	ug/L	0.01
Spiked Amount 5.000	Range 80 - 131		Recovery = 110.20%			
Target Compounds						Qvalue
9) Trichlorofluoromethane	3.04	101	446449m	0.24	ug/L	
31) 1,1,1-Trichloroethane	7.52	97	23871741	13.29	ug/L #	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

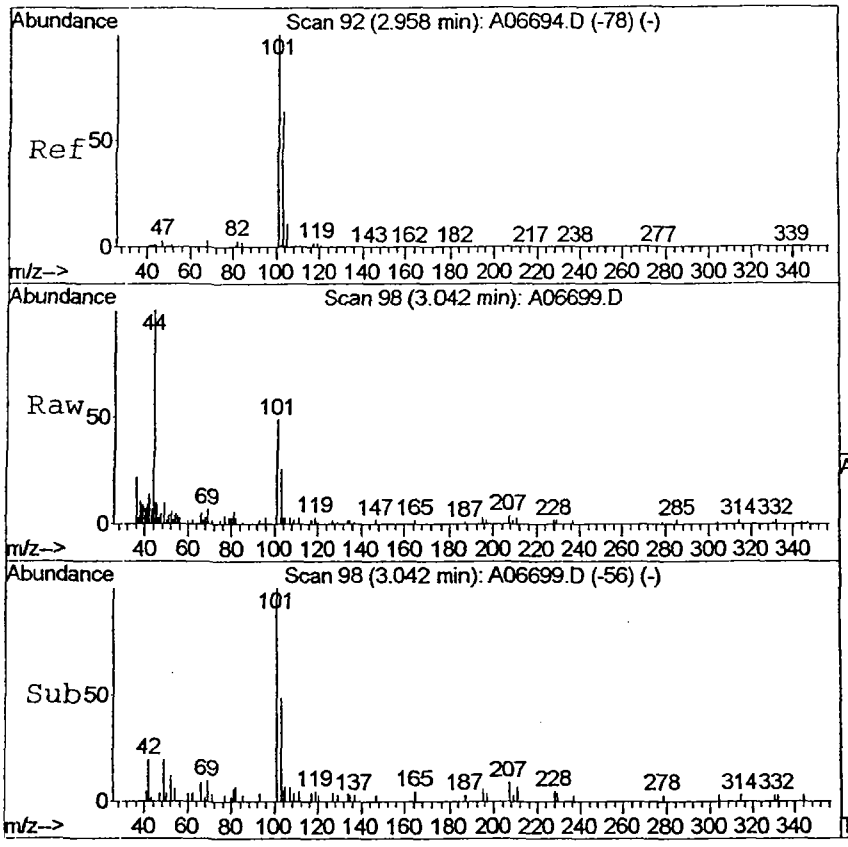
Data File: C:\MSDChem\1\A-5973\A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 15 10:00:33 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Dec 14 11:01:40 2006
Response via : Initial Calibration



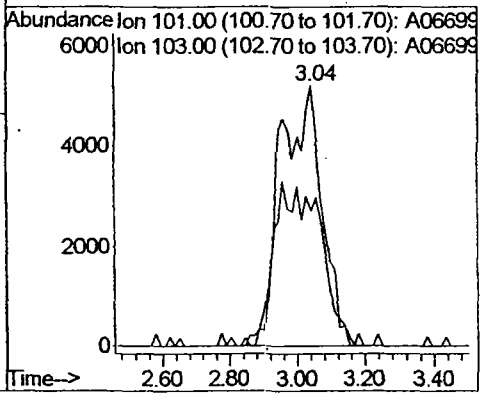
Data File : C:\MSDChem\1\A-5973\A06699.D
Acq On : 12/14/06 13:43
Sample : E2P11
Misc : S-0349.12 25ML
MS Integration Params: LSCINT.E

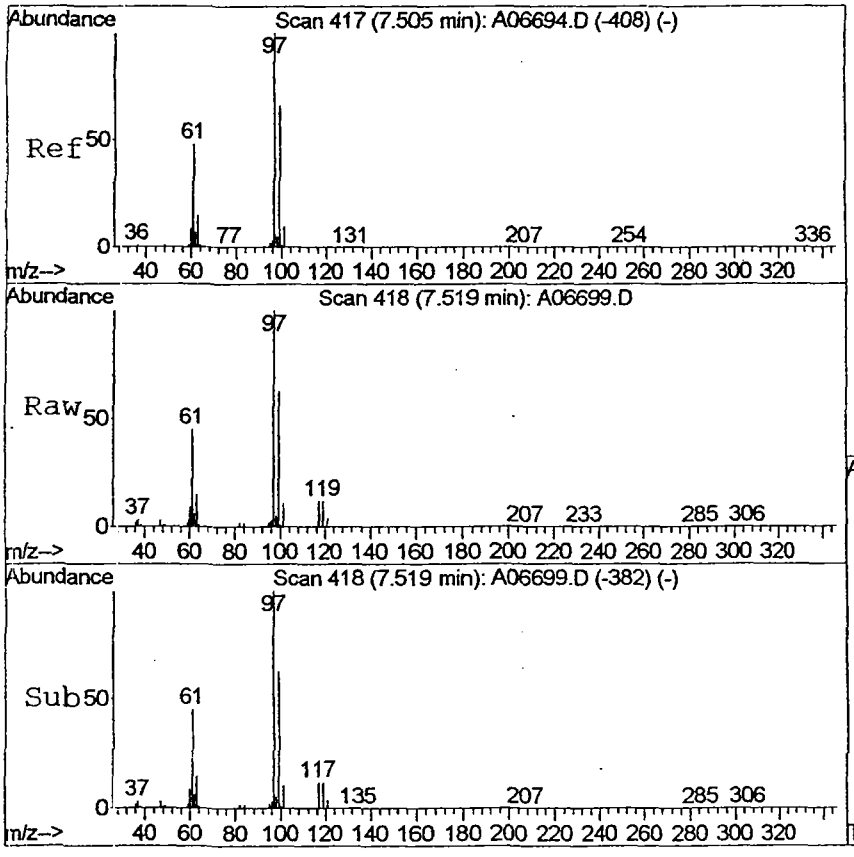
Vial: 8
Operator: SB
Inst : A-5973
Multiplr: 1.00



#9
Trichlorofluoromethane
Concen: 0.24 ug/L m
RT: 3.04 min Scan# 98
Delta R.T. 0.08 min
Integration Range:
Scan=75 to 112
R.T.= 2.72 to 3.24 (min)
Tgt Ion:101 Resp: 446449

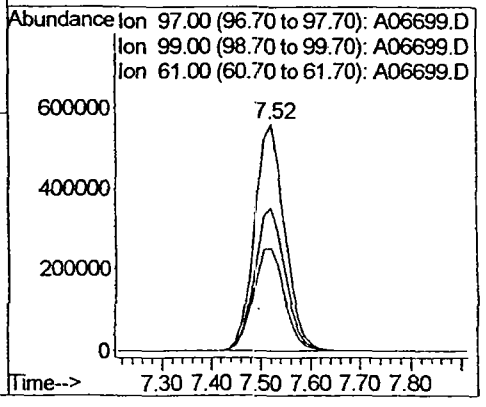
Ion	Ratio	Lower	Upper
101	100		
103	25.0	51.5	77.3#





#31
1,1,1-Trichloroethane
Concen: 13.29 ug/L
RT: 7.52 min Scan# 418
Delta R.T. 0.01 min
Integration Range:
Scan=408 to 434
R.T.= 7.38 to 7.74 (min)
Tgt Ion: 97 Resp:23871741

Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.0	76.6
61	47.0	30.8	46.2#



LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.230	35	40	72	BV 2	211097	27420731	36.70%	4.458%
2	2.762	72	78	87	PV	225144	10990513	14.71%	1.787%
3	2.944	87	91	118	VV	26615	3146649	4.21%	0.512%
4	3.350	118	120	123	PV 2	2151	42378	0.06%	0.007%
5	3.420	123	125	132	PV 6	3147	140012	0.19%	0.023%
6	3.699	132	145	173	VV	776464	37640216	50.38%	6.120%
7	4.119	173	175	184	PV 3	1771	83381	0.11%	0.014%
8	4.273	184	186	187	VV 2	1503	19829	0.03%	0.003%
9	4.315	187	189	192	PV 3	995	8763	0.01%	0.001%
10	4.413	192	196	199	VV 3	1657	54893	0.07%	0.009%
	4.497	199	202	204	VV	2074	51077	0.07%	0.008%
12	4.539	204	205	208	VV 2	1532	33202	0.04%	0.005%
13	4.679	208	215	231	VV 2	21305	1366831	1.83%	0.222%
14	4.945	231	234	237	VV 3	1586	62510	0.08%	0.010%
15	5.029	237	240	242	VV 3	3522	89931	0.12%	0.015%
16	5.099	242	245	249	VV 4	3244	142615	0.19%	0.023%
17	5.169	249	250	254	VV 3	2151	61248	0.08%	0.010%
18	5.252	254	256	259	VV 2	2480	57159	0.08%	0.009%
19	5.336	259	262	269	VV 3	2329	83511	0.11%	0.014%
20	5.476	269	272	274	VV 2	1851	38513	0.05%	0.006%
21	5.532	274	276	280	PV 3	1561	39741	0.05%	0.006%
22	5.630	280	283	290	VV 4	907	69564	0.09%	0.011%
23	5.756	290	292	296	VV	1748	40983	0.05%	0.007%
24	5.826	296	297	298	VV	962	17757	0.02%	0.003%
25	5.938	298	305	311	VV 4	9748	460383	0.62%	0.075%
26	6.078	311	315	320	VV 3	2285	76397	0.10%	0.012%
27	6.176	320	322	324	VV	1362	24208	0.03%	0.004%
28	6.232	324	326	329	VV 2	1213	44509	0.06%	0.007%
29	6.428	329	340	348	VV 4	3130	240030	0.32%	0.039%
30	6.624	348	354	356	VV 2	2831	73395	0.10%	0.012%
31	6.666	356	357	359	VV	1963	36004	0.05%	0.006%
[illegible]	6.708	359	360	362	VV	1869	21096	0.03%	0.003%
[illegible]	6.764	362	364	365	PV	2531	38346	0.05%	0.006%
34	6.806	365	367	369	VV 2	2096	40193	0.05%	0.007%

LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

35	6.862	369	371	373	VV		1691	32697	0.04%	0.005%
36	6.973	373	379	384	VV		1578	86677	0.12%	0.014%
37	7.071	384	386	388	VV	2	1882	35014	0.05%	0.006%
38	7.225	388	397	410	VV		847867	33295411	44.56%	5.414%
39	7.519	410	418	424	VV		1732884	74718241	100.00%	12.148%
40	7.659	424	428	444	VV		389361	17886466	23.94%	2.908%
41	7.911	444	446	449	VV	4	7186	223436	0.30%	0.036%
42	8.051	449	456	467	VV		1665405	61541683	82.37%	10.006%
43	8.303	467	474	486	VV		518346	19589949	26.22%	3.185%
44	8.499	486	488	492	VV	2	4751	184208	0.25%	0.030%
45	8.611	492	496	498	VV	3	4912	203637	0.27%	0.033%
46	8.652	498	499	502	VV	3	3864	100139	0.13%	0.016%
47	8.722	502	504	506	VV	2	3120	79412	0.11%	0.013%
48	8.792	506	509	511	VV	3	2569	68842	0.09%	0.011%
49	8.862	511	514	516	VV	2	3248	103496	0.14%	0.017%
50	8.932	516	519	520	VV	2	2515	59270	0.08%	0.010%
51	8.988	520	523	525	VV	4	8953	236630	0.32%	0.038%
52	9.100	525	531	538	VV		309430	10666362	14.28%	1.734%
53	9.212	538	539	552	VV	7	4458	301997	0.40%	0.049%
54	9.478	552	558	562	VV	4	2710	146404	0.20%	0.024%
55	9.688	562	573	583	VV		1089887	37503282	50.19%	6.098%
56	9.842	583	584	587	VV	2	8069	218618	0.29%	0.036%
57	9.898	587	588	594	VV	4	5085	220713	0.30%	0.036%
58	10.010	594	596	600	VV	2	3239	117341	0.16%	0.019%
59	10.206	600	610	619	VV		40194	2298660	3.08%	0.374%
60	10.373	619	622	628	VV	6	11493	566745	0.76%	0.092%
61	10.471	628	629	631	VV	3	2509	55164	0.07%	0.009%
62	10.527	631	633	644	VV	5	3196	236270	0.32%	0.038%
63	10.709	644	646	649	VV	2	2511	84857	0.11%	0.014%
64	10.779	649	651	652	VV	2	2758	58181	0.08%	0.009%
65	10.877	652	658	668	VV		753273	22153634	29.65%	3.602%
66	11.059	668	671	674	VV	3	5966	223452	0.30%	0.036%
67	11.213	674	682	700	VV		2392880	70047839	93.75%	11.389%
68	11.507	700	703	705	VV	2	4064	131442	0.18%	0.021%
69	11.563	705	707	710	VV	3	4092	125345	0.17%	0.020%
70	11.675	710	715	717	VV	2	3623	145832	0.20%	0.024%
71	11.787	717	723	730	VV		54064	2223381	2.98%	0.361%

LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

72	11.955	730	735	744	VV	170218	5230924	7.00%	0.850%
73	12.122	744	747	749	VV 2	4211	142181	0.19%	0.023%
74	12.178	749	751	758	VV 5	3841	278655	0.37%	0.045%
75	12.304	758	760	764	VV 3	2935	123319	0.17%	0.020%
76	12.416	764	768	770	VV 4	2945	97152	0.13%	0.016%
77	12.500	770	774	777	VV 4	3893	145414	0.19%	0.024%
78	12.570	777	779	782	VV 3	2924	80186	0.11%	0.013%
79	12.766	782	793	799	VV 4	9193	619931	0.83%	0.101%
80	12.878	799	801	807	VV 2	3673	125158	0.17%	0.020%
81	12.990	807	809	811	VV	2184	51290	0.07%	0.008%
82	13.032	811	812	815	VV 2	2389	54174	0.07%	0.009%
83	13.102	815	817	819	VV	2964	53965	0.07%	0.009%
84	13.256	819	828	843	VV	1682251	44301342	59.29%	7.203%
85	13.480	843	844	851	VV 6	7392	391948	0.52%	0.064%
86	13.704	851	860	865	VV	703434	19695973	26.36%	3.202%
87	13.801	865	867	880	VV 5	9145	498385	0.67%	0.081%
88	14.067	880	886	891	VV 5	6541	305987	0.41%	0.050%
89	14.165	891	893	896	VV 2	2952	95437	0.13%	0.016%
90	14.235	896	898	902	VV 3	3033	89057	0.12%	0.014%
91	14.319	902	904	906	VV 2	1791	45121	0.06%	0.007%
92	14.361	906	907	913	VV 4	1703	76635	0.10%	0.012%
93	14.473	913	915	921	VV 5	1559	64639	0.09%	0.011%
94	14.571	921	922	931	VV 2	1540	79860	0.11%	0.013%
95	14.725	931	933	935	VV	2669	60294	0.08%	0.010%
96	14.795	935	938	940	VV 2	3391	89379	0.12%	0.015%
97	14.879	940	944	950	VV 4	2494	159158	0.21%	0.026%
98	14.991	950	952	957	VV 2	1913	57553	0.08%	0.009%
99	15.173	957	965	974	VV 2	56245	2137366	2.86%	0.348%
100	15.341	974	977	980	VV 2	4369	152663	0.20%	0.025%
101	15.397	980	981	984	VV 2	2981	66160	0.09%	0.011%
102	15.467	984	986	987	VV	2009	47614	0.06%	0.008%
103	15.508	987	989	991	VV 2	2254	56010	0.07%	0.009%
104	15.592	991	995	997	VV 3	2882	78129	0.10%	0.013%
105	15.676	997	1001	1003	VV 4	3028	101763	0.14%	0.017%
106	15.732	1003	1005	1010	VV 4	1714	70654	0.09%	0.011%
107	15.886	1010	1016	1023	VV	198179	6667725	8.92%	1.084%
108	16.026	1023	1026	1029	VV 3	3362	114691	0.15%	0.019%
109	16.180	1029	1037	1044	VV	709625	20207784	27.05%	3.286%

LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

110	16.306	1044	1046	1051	VV	3	2542	98336	0.13%	0.016%
111	16.390	1051	1052	1054	VV	3	1694	24865	0.03%	0.004%
112	16.460	1054	1057	1064	VV	3	2719	154967	0.21%	0.025%
113	16.572	1064	1065	1070	VV		2559	72979	0.10%	0.012%
114	16.670	1070	1072	1076	VV		2575	82849	0.11%	0.013%
115	16.796	1076	1081	1082	VV	3	2265	62801	0.08%	0.010%
116	16.852	1082	1085	1090	VV	3	1861	103655	0.14%	0.017%
117	16.978	1090	1094	1097	VV	4	4136	125573	0.17%	0.020%
118	17.062	1097	1100	1109	PV	4	1349	91095	0.12%	0.015%
119	17.215	1109	1111	1118	VV	4	2132	91827	0.12%	0.015%
120	17.341	1118	1120	1123	VV	4	1604	45821	0.06%	0.007%
121	17.425	1123	1126	1128	VV	4	2366	67718	0.09%	0.011%
122	17.495	1128	1131	1136	VV	3	3008	105851	0.14%	0.017%
123	17.593	1136	1138	1140	VV	2	1753	28532	0.04%	0.005%
124	17.663	1140	1143	1145	VV		2539	68805	0.09%	0.011%
125	17.789	1145	1152	1162	VV		593677	15629585	20.92%	2.541%
126	17.957	1162	1164	1166	VV	2	2264	65968	0.09%	0.011%
127	18.027	1166	1169	1172	VV	3	2955	118757	0.16%	0.019%
128	18.125	1172	1176	1178	VV	3	1883	73261	0.10%	0.012%
129	18.181	1178	1180	1182	VV	3	2231	51271	0.07%	0.008%
130	18.265	1182	1186	1192	VV	2	1891	108746	0.15%	0.018%
131	18.363	1192	1193	1202	VV	4	2035	141864	0.19%	0.023%
132	18.559	1202	1207	1218	VV		1731411	46731471	62.54%	7.598%
133	18.727	1218	1219	1233	VV	6	2946	286349	0.38%	0.047%
134	18.950	1233	1235	1238	VV	2	2577	80370	0.11%	0.013%
135	19.020	1238	1240	1243	VV	2	2034	69647	0.09%	0.011%
136	19.090	1243	1245	1247	VV	3	2446	51010	0.07%	0.008%
137	19.146	1247	1249	1251	VV	2	2414	38281	0.05%	0.006%
138	19.202	1251	1253	1255	VV	2	2677	49400	0.07%	0.008%
139	19.342	1255	1263	1270	PV		131318	4534639	6.07%	0.737%
140	19.510	1270	1275	1280	VV	5	3274	183292	0.25%	0.030%
141	19.664	1280	1286	1288	VV	4	2074	108682	0.15%	0.018%
142	19.762	1288	1293	1295	VV	4	2314	98582	0.13%	0.016%
143	19.818	1295	1297	1300	VV	3	2458	86003	0.12%	0.014%
144	19.888	1300	1302	1307	VV	3	1801	85827	0.11%	0.014%
145	20.042	1307	1313	1318	VV	5	2279	157311	0.21%	0.026%
146	20.168	1318	1322	1328	VV	5	7141	276839	0.37%	0.045%

LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

147	20.266	1328	1329	1332	VV	2	1847	43615	0.06%	0.007%
148	20.364	1332	1336	1338	VV	2	1959	77146	0.10%	0.013%
149	20.406	1338	1339	1341	VV		2260	34066	0.05%	0.006%
150	20.462	1341	1343	1345	VV	2	1538	28351	0.04%	0.005%
151	20.532	1345	1348	1352	VV	2	2157	67977	0.09%	0.011%
152	20.643	1352	1356	1367	VV	5	2439	158053	0.21%	0.026%
153	20.867	1367	1372	1374	VV	3	2375	73923	0.10%	0.012%
154	20.923	1374	1376	1381	VV	2	1181	46587	0.06%	0.008%
155	21.021	1381	1383	1385	VV	2	1759	28142	0.04%	0.005%
156	21.259	1385	1400	1401	VV	4	2335	123098	0.16%	0.020%
157	21.301	1401	1403	1405	VV	2	983	23623	0.03%	0.004%
158	21.399	1405	1410	1413	VV	3	9334	226582	0.30%	0.037%
159	21.469	1413	1415	1421	VV	3	1913	68141	0.09%	0.011%
160	21.623	1421	1426	1428	VV	4	2608	66004	0.09%	0.011%
[illegible]	21.679	1428	1430	1434	VV		2838	72071	0.10%	0.012%
162	21.763	1434	1436	1437	VV		1227	28802	0.04%	0.005%
163	21.819	1437	1440	1442	VV	3	2441	58012	0.08%	0.009%
164	21.903	1442	1446	1448	VV	4	1806	56294	0.08%	0.009%
165	22.029	1448	1455	1459	VV	4	2157	124735	0.17%	0.020%
166	22.183	1459	1466	1469	VV	2	1651	90621	0.12%	0.015%
167	22.281	1469	1473	1475	VV	3	2768	88288	0.12%	0.014%
168	22.378	1475	1480	1484	VV	5	7956	233120	0.31%	0.038%
169	22.476	1484	1487	1491	VV	2	1873	71168	0.10%	0.012%
170	22.672	1491	1501	1506	VV	2	13482	528134	0.71%	0.086%
171	22.770	1506	1508	1515	VV	3	3003	135893	0.18%	0.022%
172	22.896	1515	1517	1518	VV		1296	21940	0.03%	0.004%
173	22.952	1518	1521	1525	VV	3	1942	69324	0.09%	0.011%
174	23.036	1525	1527	1533	VV	4	2310	108660	0.15%	0.018%
175	23.134	1533	1534	1537	VV	2	1816	56186	0.08%	0.009%
176	23.218	1537	1540	1542	VV	3	2304	62321	0.08%	0.010%
177	23.274	1542	1544	1546	VV	3	3123	83456	0.11%	0.014%
178	23.330	1546	1548	1550	VV	2	2004	42533	0.06%	0.007%
179	23.400	1550	1553	1556	PV	2	2011	54422	0.07%	0.009%
180	23.498	1556	1560	1563	VV	2	2769	108362	0.15%	0.018%
181	23.568	1563	1565	1567	VV	2	1785	42375	0.06%	0.007%
[illegible]	23.638	1567	1570	1572	VV	2	1408	36873	0.05%	0.006%
[illegible]	23.694	1572	1574	1575	VV		1437	19122	0.03%	0.003%
184	23.750	1575	1578	1584	VV	3	1377	54213	0.07%	0.009%

LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

185	23.862	1584	1586	1589	PV 3	2110	37959	0.05%	0.006%

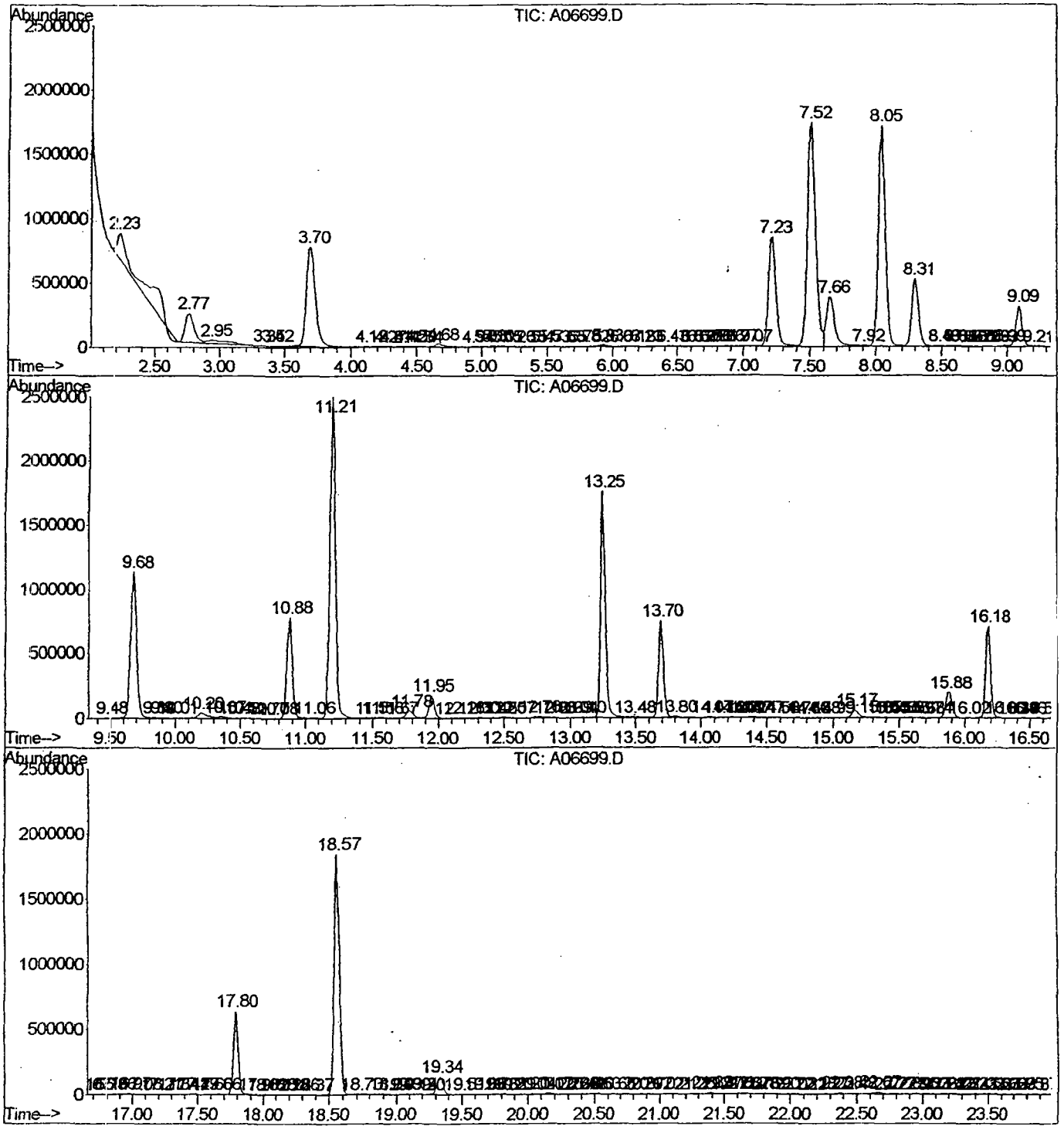
Sum of corrected areas: 615043982

LSC Report - Integrated Chromatogram

Data Path : C:\MSDChem\1\A-5973\
Data File : A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

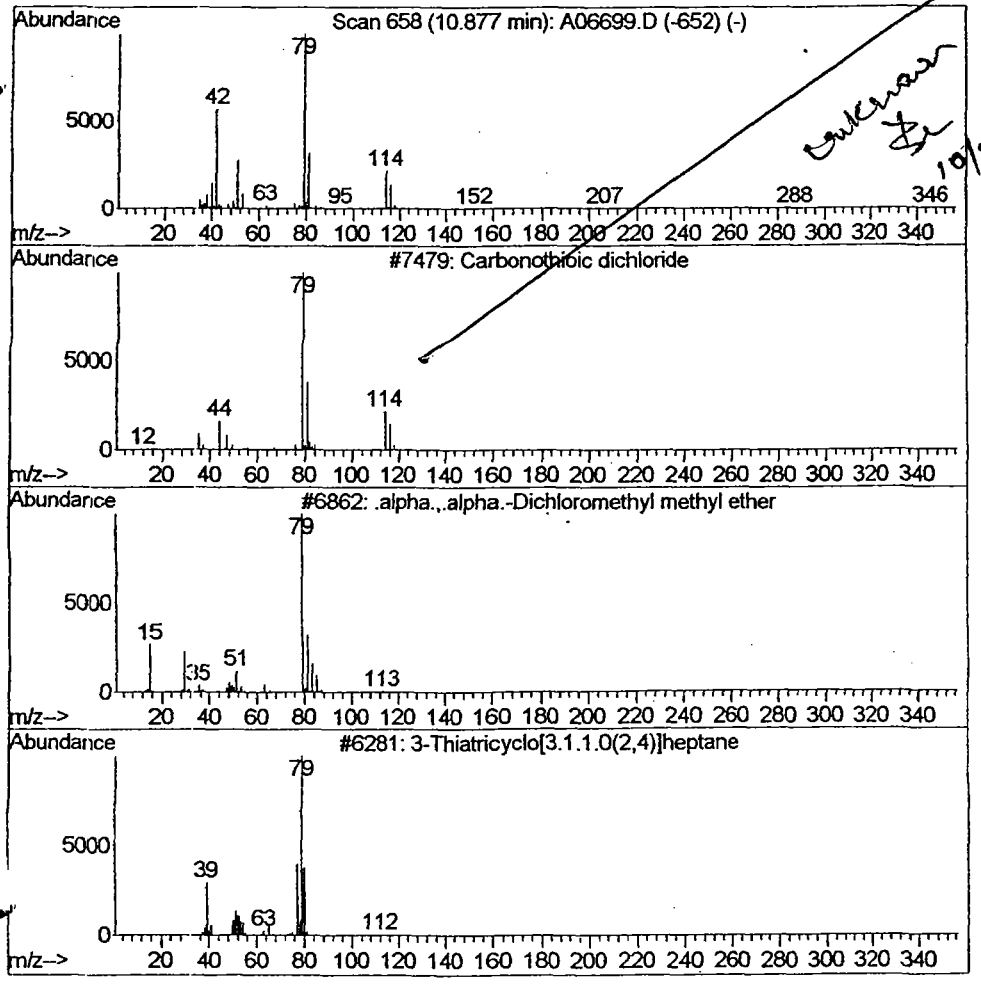
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

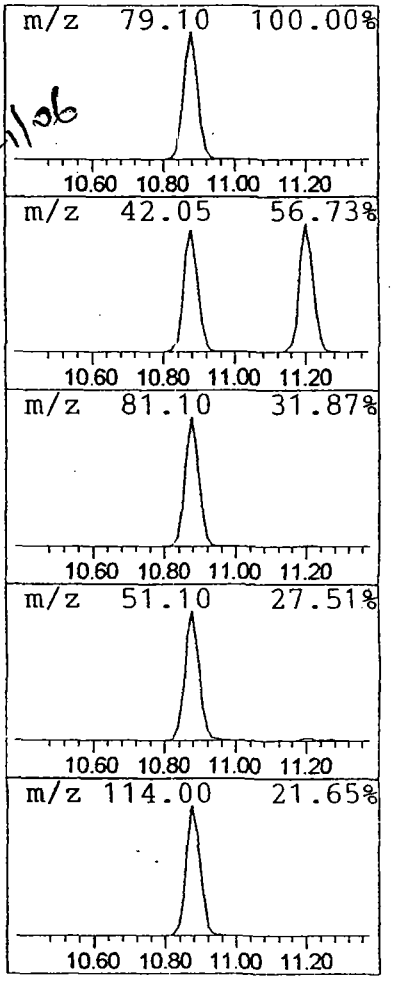
****

Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.88	10.38 ug/L	22153600	1,4-Difluorobenzene	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	28
2	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	25
3	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	25
4	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
5	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23





Unknown 10/21/06

Library Search Compound Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

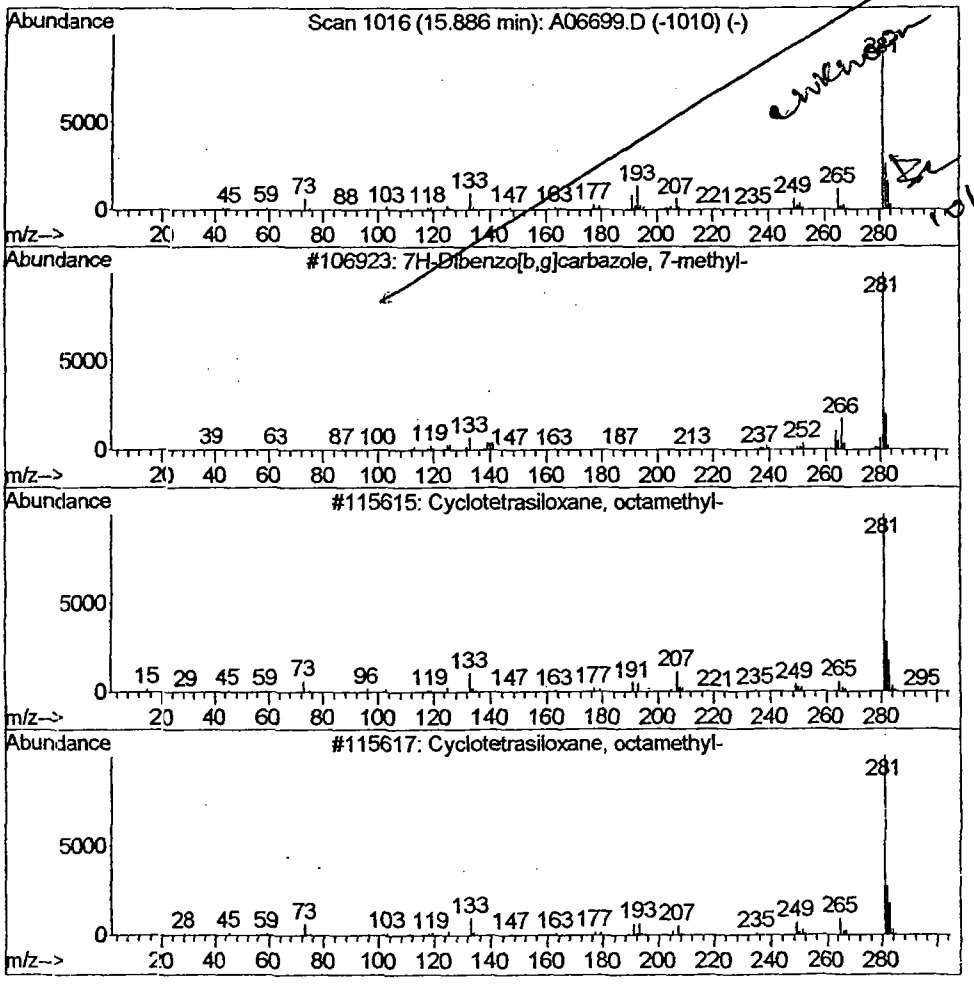
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

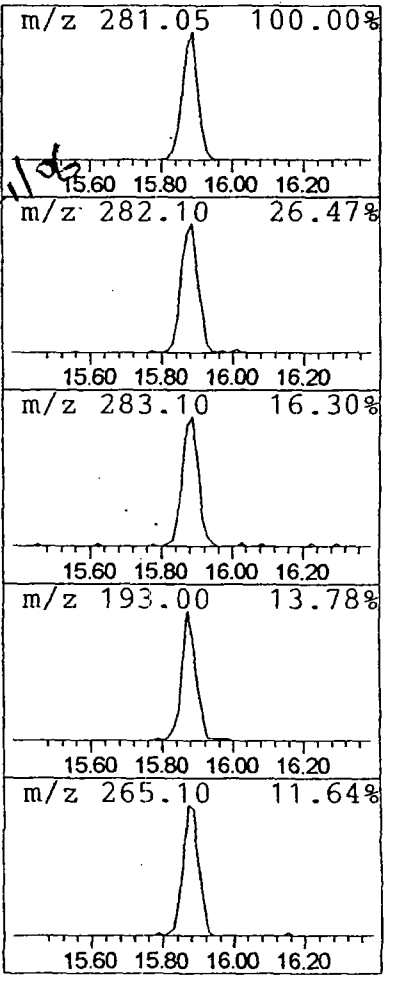
****

Peak Number 2 7H-Dibenzo[b,g]carbazole, 7... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.88	2.13 ug/L	6667730	1,4-Dichlorobenzene-d4	17.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	7H-Dibenzo[b,g]carbazole, 7-methyl-	281	C21H15N	003557-49-1	64
2	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	64
3	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	62
4	Benzene, 1-phenyl-4-(2-cyano-2-p...	281	C21H15N	027869-56-3	59
5	trans-4-Dimethylamino-4'-methoxy...	281	C18H19NO2	052119-37-6	50





Tentatively Identified Compound (LSC) Summary

Data Path : C:\MSDChem\1\A-5973\
Data File : A06699.D
Acq On : 12/14/06 13:43 Operator: SB
Sample : E2P11 Inst : A-5973
Misc : S-0349.12 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Carbonothioic dic...	10.88	10.4	ug/L	22153600	1	9.09	10666400	5.0
7H-Dibenzo[b,g]ca...	15.88	2.1	ug/L	6667730	3	17.80	15629600	5.0

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

EPA SAMPLE NO.
E2P16

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0349.17

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06700

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	3.9	
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	6.2	
156-59-2	cis-1,2-Dichloroethene	13	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	23	E
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.21	J
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	0.42	J

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

EPA SAMPLE NO.
E2P16

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0349.17

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06700

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	43	E
108-87-2	Methylcyclohexane	0.42	J
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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

EPA SAMPLE NO.
E2P16

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0349.17

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06700

Level: (TRACE or LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	15.88	0.94	J
02		Unknown-02	19.34	0.86	J
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	0	

[1] EPA-designated Registry Number.

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\A-5973\A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 14 14:48:46 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Dec 14 11:01:40 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	9.10	114	6415466	5.00 ug/L	0.01
30) Chlorobenzene-d5	13.70	117	6546872	5.00 ug/L	0.01
61) 1,4-Dichlorobenzene-d4	17.80	152	2584374	5.00 ug/L	0.01

System Monitoring Compounds					
4) Vinyl chloride-d3	2.25	65	7373959	3.80 ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 76.00%		
7) Chloroethane-d5	2.78	69	5287962	3.70 ug/L	0.01
Spiked Amount 5.000	Range 71 - 131		Recovery = 74.00%		
10) 1,1-Dichloroethene-d2	3.71	63	13251118	3.24 ug/L	0.02
Spiked Amount 5.000	Range 55 - 104		Recovery = 64.80%		
21) 2-Butanone-d5	7.66	46	11565946	37.22 ug/L	0.02
Spiked Amount 50.000	Range 49 - 155		Recovery = 74.44%		
24) Chloroform-d	7.23	84	13884581	3.66 ug/L	0.02
Spiked Amount 5.000	Range 78 - 121		Recovery = 73.20%#		
26) 1,2-Dichloroethane-d4	8.31	65	7272556	3.72 ug/L	0.02
Spiked Amount 5.000	Range 78 - 129		Recovery = 74.40%#		
28) 1,4-Dioxane-d8	10.21	96	522396	181.79 ug/L	0.01
Spiked Amount 250.000	Range 50 - 150		Recovery = 72.72%		
34) Benzene-d6	8.06	84	29038527	4.75 ug/L	0.02
Spiked Amount 5.000	Range 77 - 124		Recovery = 95.00%		
38) 1,2-Dichloropropane-d6	9.69	67	8386728	4.69 ug/L	0.01
Spiked Amount 5.000	Range 79 - 124		Recovery = 93.80%		
43) Toluene-d8	11.21	98	25902243	5.10 ug/L	0.01
Spiked Amount 5.000	Range 77 - 121		Recovery = 102.00%		
45) trans-1,3-Dichloropropene-	11.95	79	1429841	3.30 ug/L	0.01
Spiked Amount 5.000	Range 73 - 121		Recovery = 66.00%#		
49) 2-Hexanone-d5	13.25	63	7811880	46.32 ug/L	0.01
Spiked Amount 50.000	Range 28 - 135		Recovery = 92.64%		
59) 1,1,2,2-Tetrachloroethane-	16.18	84	6253853	4.96 ug/L	0.01
Spiked Amount 5.000	Range 73 - 125		Recovery = 99.20%		
65) 1,2-Dichlorobenzene-d4	18.57	152	7883574	5.70 ug/L	0.01
Spiked Amount 5.000	Range 80 - 131		Recovery = 114.00%		

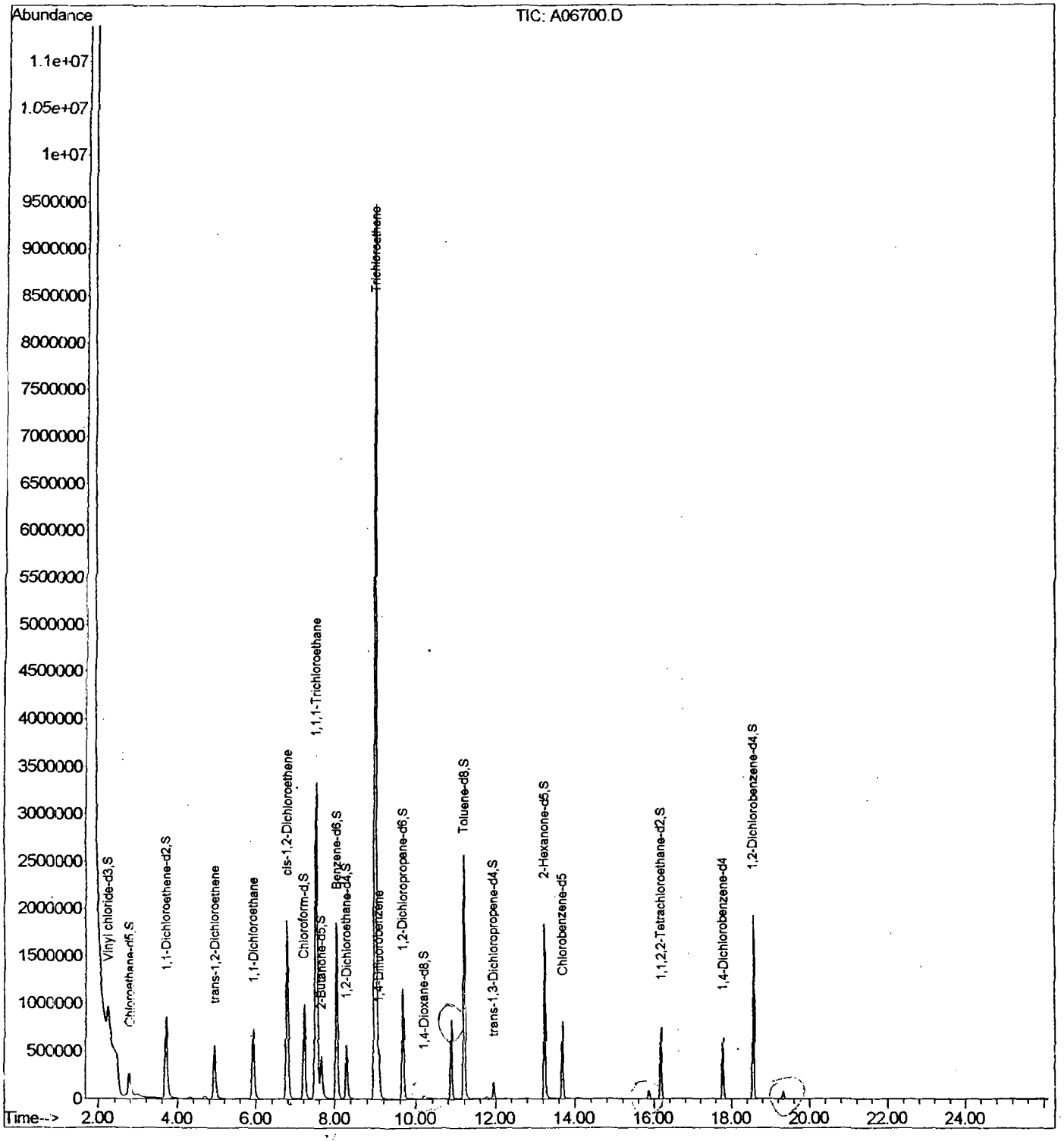
Target Compounds					Qvalue
17) trans-1,2-Dichloroethene	4.96	96	4669690	3.85 ug/L	94
19) 1,1-Dichloroethane	5.94	63	14836846	6.17 ug/L	98
20) cis-1,2-Dichloroethene	6.80	96	14078436	12.76 ug/L	95
31) 1,1,1-Trichloroethane	7.53	97	45234057	23.46 ug/L #	95
36) Trichloroethene	9.01	95	52003252	43.15 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

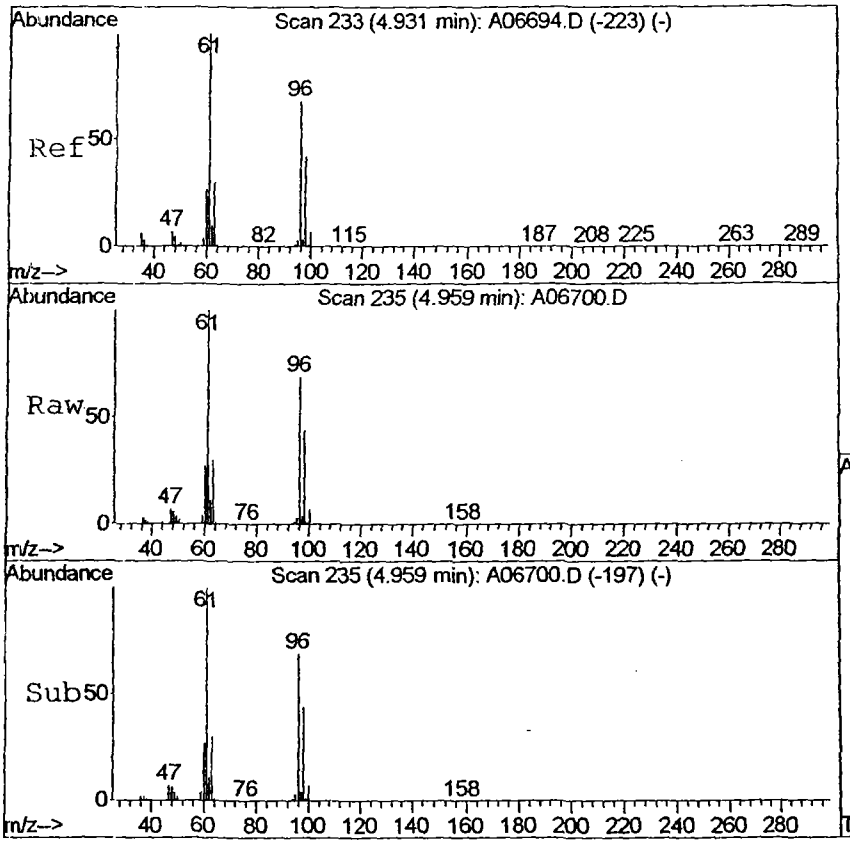
Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\A-5973\A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 14 14:48:46 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Dec 14 11:01:40 2006
Response via : Initial Calibration

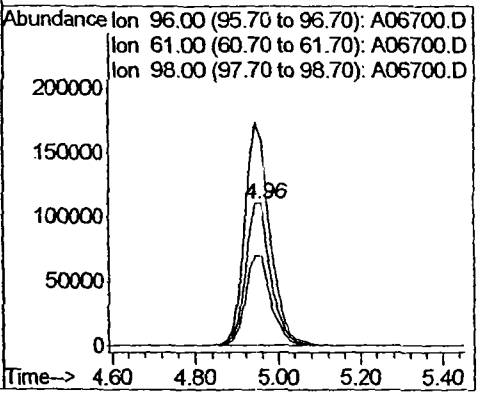


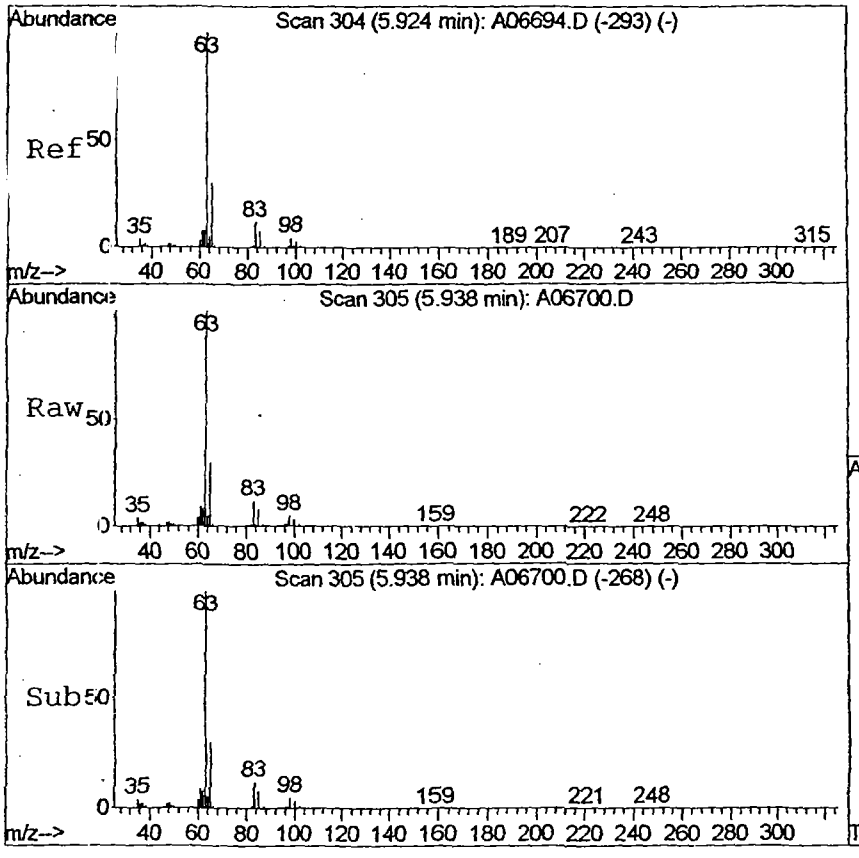
Data File : C:\MSDCHEM\1\A-5973\A06700.D Vial: 9
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#17
trans-1,2-Dichloroethene
Concen: 3.85 ug/L
RT: 4.96 min Scan# 235
Delta R.T. 0.02 min
Integration Range:
Scan=224 to 255
R.T.= 4.80 to 5.24 (min)
Tgt Ion: 96 Resp: 4669690

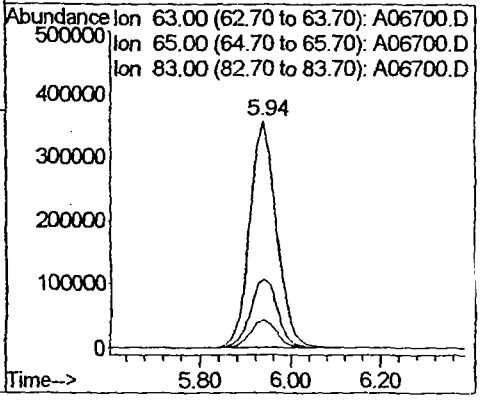
Ion	Ratio	Lower	Upper
96	100		
61	157.3	117.9	176.9
98	64.8	52.3	78.5



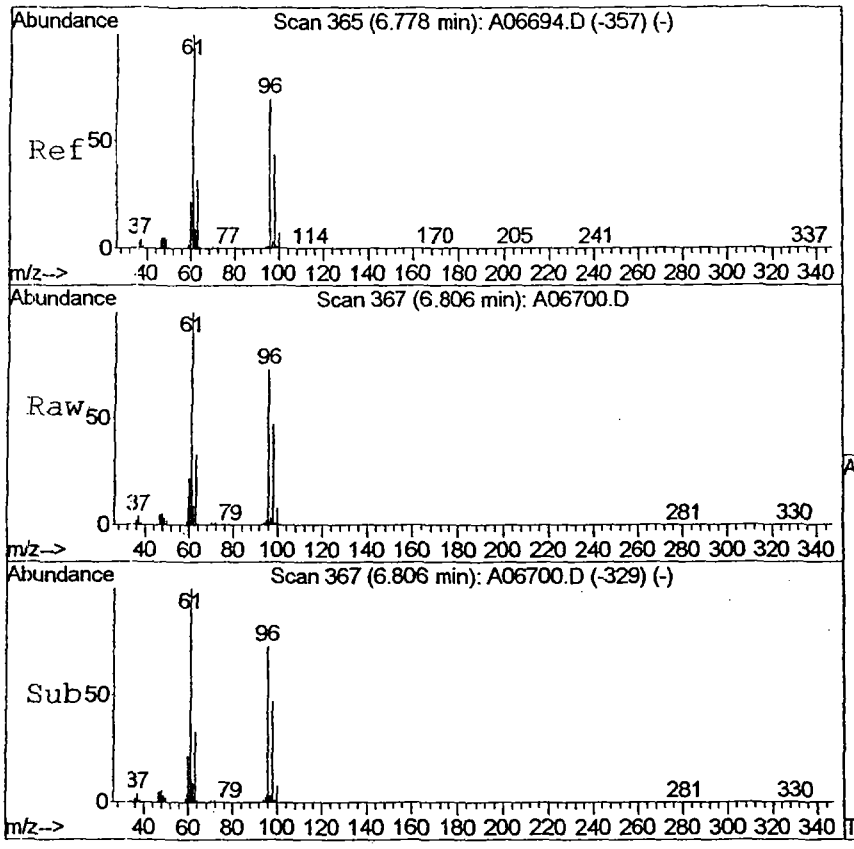


#19
1,1-Dichloroethane
Concen: 6.17 ug/L
RT: 5.94 min Scan# 305
Delta R.T. 0.02 min
Integration Range:
Scan=295 to 323
R.T.= 5.80 to 6.19 (min)
Tgt Ion: 63 Resp:14836846

Ion	Ratio	Lower	Upper
63	100		
65	30.7	24.8	37.2
83	12.3	11.5	17.3

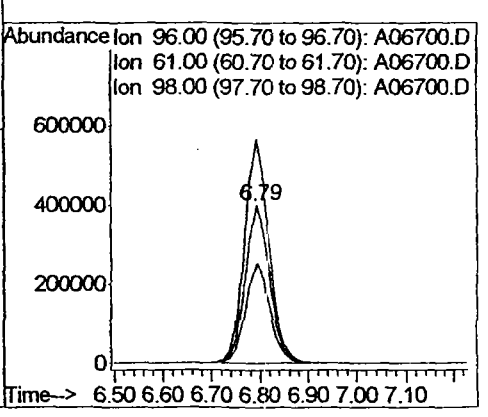


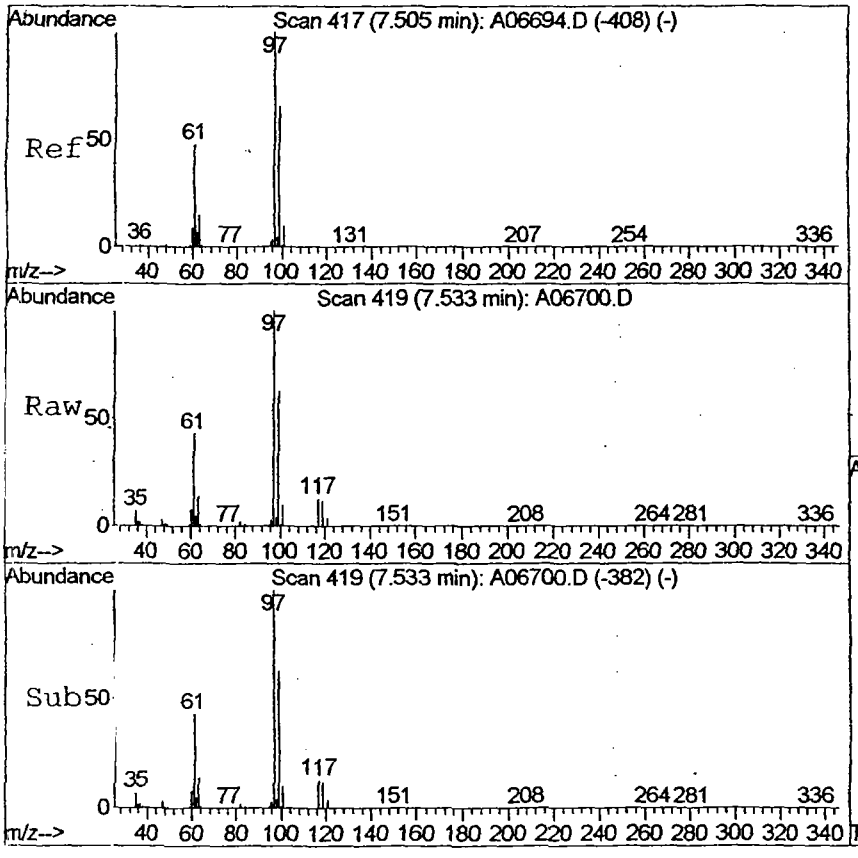
Data File : C:\MSDCHEM\1\A-5973\A06700.D Vial: 5
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#20
cis-1,2-Dichloroethene
Concen: 12.76 ug/L
RT: 6.80 min Scan# 367
Delta R.T. 0.02 min
Integration Range:
Scan=358 to 384
R.T.= 6.68 to 7.04 (min)
Tgt Ion: 96 Resp:14078436

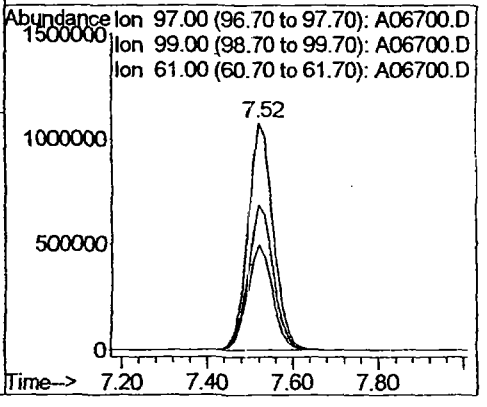
Ion	Ratio	Lower	Upper
96	100		
61	141.8	106.7	160.1
98	64.0	51.3	76.9



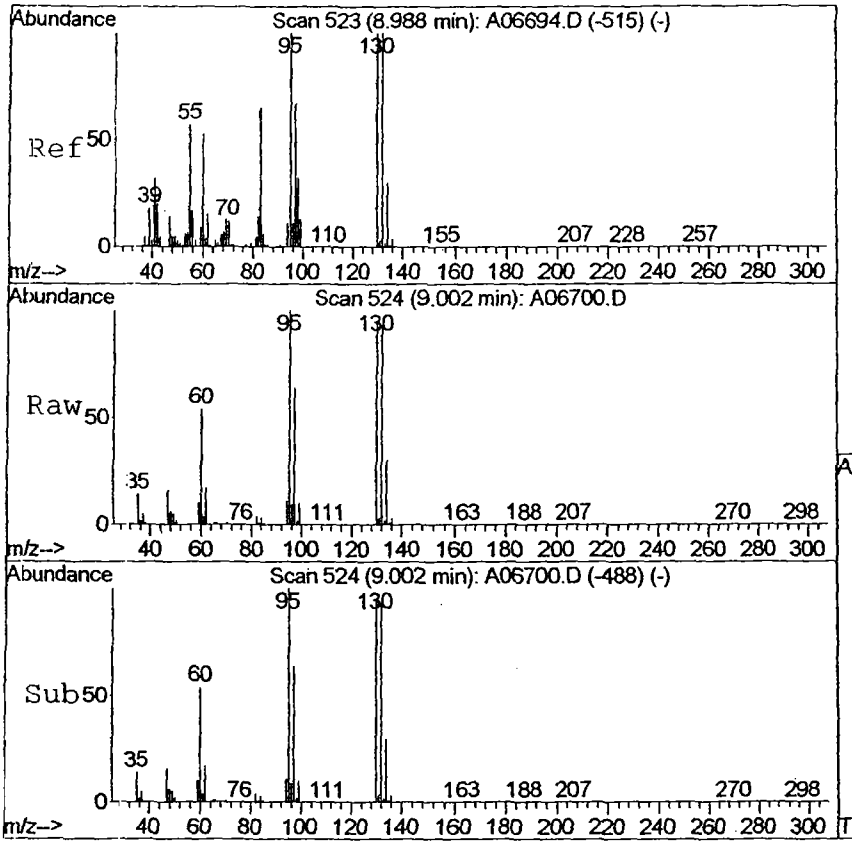


#31
1,1,1-Trichloroethane
Concen: 23.46 ug/L
RT: 7.53 min Scan# 419
Delta R.T. 0.02 min
Integration Range:
Scan=408 to 438
R.T.= 7.38 to 7.80 (min)
Tgt Ion: 97 Resp:45234057

Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.0	76.6
61	46.3	30.8	46.2#

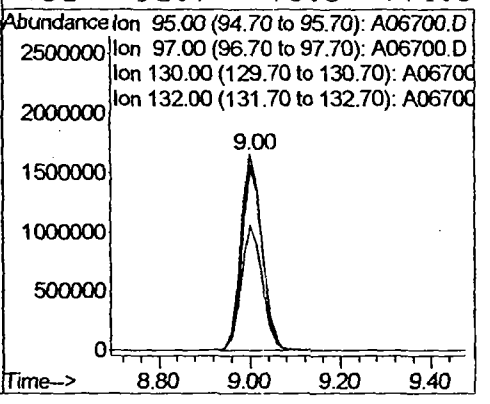


Data File : C:\MSDCHEM\1\A-5973\A06700.D Vial: 9
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#36
Trichloroethene
Concen: 43.15 ug/L
RT: 9.01 min Scan# 524
Delta R.T. 0.02 min
Integration Range:
Scan=516 to 544
R.T.= 8.89 to 9.28 (min)
Tgt Ion: 95 Resp:52003252

Ion	Ratio	Lower	Upper
95	100		
97	64.0	51.2	76.8
130	94.3	78.4	117.6
132	92.7	76.3	114.5



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.776	67	79	89	BV	243140	13463703	4.35%	1.232%
2	2.972	89	93	110	VV 7	29945	2405870	0.78%	0.220%
3	3.238	110	112	116	PV 4	1205	44168	0.01%	0.004%
4	3.336	116	119	122	VV 5	3293	100967	0.03%	0.009%
5	3.448	122	127	129	VV 5	4496	158792	0.05%	0.015%
6	3.504	129	131	135	VV 5	1596	41985	0.01%	0.004%
7	3.713	135	146	173	PV 2	842418	38932050	12.57%	3.562%
8	4.119	173	175	176	VV	1224	22552	0.01%	0.002%
9	4.161	176	178	180	PV 2	1658	29594	0.01%	0.003%
10	4.315	180	189	200	VV 4	15836	936042	0.30%	0.086%
1	4.483	200	201	209	VV 3	2214	47234	0.02%	0.004%
2	4.693	209	216	224	VV 2	25431	1218667	0.39%	0.112%
13	4.819	224	225	226	VV	2410	47165	0.02%	0.004%
14	4.959	226	235	256	VV	553352	24365295	7.87%	2.229%
15	5.267	256	257	262	VV 3	2588	95306	0.03%	0.009%
16	5.392	262	266	272	VV 3	2911	148712	0.05%	0.014%
17	5.504	272	274	276	VV 3	1872	34192	0.01%	0.003%
18	5.574	276	279	281	PV 2	1460	40014	0.01%	0.004%
19	5.630	281	283	285	VV 2	2202	53615	0.02%	0.005%
20	5.686	285	287	290	VV 2	1785	51761	0.02%	0.005%
21	5.742	290	291	296	VV 2	2386	71334	0.02%	0.007%
22	5.938	296	305	319	VV	720444	31120502	10.05%	2.847%
23	6.162	319	321	323	VV 3	3803	83463	0.03%	0.008%
24	6.246	323	327	330	VV 3	2223	94605	0.03%	0.009%
25	6.330	330	333	336	VV 4	2290	78414	0.03%	0.007%
26	6.428	336	340	348	VV 4	3580	203377	0.07%	0.019%
27	6.554	348	349	351	VV 2	771	12788	0.00%	0.001%
28	6.610	351	353	357	PV 3	1653	55426	0.02%	0.005%
29	6.792	357	366	386	VV	1808163	65610964	21.18%	6.003%
30	7.099	386	388	390	VV 2	6742	171907	0.06%	0.016%
31	7.225	390	397	409	VV	958936	36543629	11.80%	3.344%
[illegible]	7.533	409	419	425	VV	3277894	140309393	45.30%	12.838%
[illegible]	7.659	425	428	449	VV	440924	19975583	6.45%	1.828%
34	8.065	449	457	468	VV	1824840	67027096	21.64%	6.133%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

35	8.317	468	475	492	VV		549010	21044834	6.79%	1.926%
36	8.597	492	495	498	VV	3	3804	164482	0.05%	0.015%
37	8.695	498	502	505	VV	3	3627	158075	0.05%	0.014%
38	8.764	505	507	513	VV	3	3283	134140	0.04%	0.012%
39	9.016	513	525	547	VV		9151950	309723607	100.00%	28.338%
40	9.352	547	549	550	VV	2	5502	142701	0.05%	0.013%
41	9.394	550	552	556	VV	3	6370	224236	0.07%	0.021%
42	9.464	556	557	561	VV	3	4434	168404	0.05%	0.015%
43	9.548	561	563	566	VV	3	4232	154542	0.05%	0.014%
44	9.688	566	573	585	VV		1128157	39228736	12.67%	3.589%
45	9.870	585	586	588	VV		7476	163497	0.05%	0.015%
46	9.926	588	590	598	VV	3	6888	367553	0.12%	0.034%
47	10.066	598	600	606	VV	5	4120	199962	0.06%	0.018%
48	10.206	606	610	618	VV		38633	1962528	0.63%	0.180%
49	10.374	618	622	627	VV	6	12138	642393	0.21%	0.059%
50	10.527	627	633	637	VV	6	3999	283073	0.09%	0.026%
51	10.597	637	638	646	VV	4	3619	190869	0.06%	0.017%
52	10.737	646	648	650	VV	3	2799	75437	0.02%	0.007%
53	10.891	650	659	666	VV		795065	23360413	7.54%	2.137%
54	11.017	666	668	670	VV	3	7448	190828	0.06%	0.017%
55	11.087	670	673	675	VV	3	6858	278791	0.09%	0.026%
56	11.213	675	682	698	VV		2479707	72622261	23.45%	6.645%
57	11.465	698	700	704	VV	2	5831	229148	0.07%	0.021%
58	11.535	704	705	708	VV	3	4973	125437	0.04%	0.011%
59	11.605	708	710	712	VV	3	4493	127320	0.04%	0.012%
60	11.661	712	714	718	VV	2	3438	137543	0.04%	0.013%
61	11.787	718	723	729	VV		22348	1007389	0.33%	0.092%
62	11.955	729	735	740	VV		178481	5364406	1.73%	0.491%
63	12.053	740	742	744	VV	2	4724	136140	0.04%	0.012%
64	12.109	744	746	748	VV	2	3901	93435	0.03%	0.009%
65	12.220	748	754	760	VV	6	9135	524005	0.17%	0.048%
66	12.374	760	765	771	VV	4	4164	267144	0.09%	0.024%
67	12.486	771	773	785	VV	5	3322	326728	0.11%	0.030%
68	12.752	785	792	803	VV	3	9580	665161	0.21%	0.061%
69	12.920	803	804	813	VV	3	2629	151353	0.05%	0.014%
[illegible]	13.088	813	816	819	VV	3	1950	67402	0.02%	0.006%
71	13.256	819	828	839	VV		1753932	46071856	14.88%	4.215%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

72	13.438	839	841	851	VV	9	8911	583106	0.19%	0.053%
73	13.606	851	853	854	VV		6369	140354	0.05%	0.013%
74	13.704	854	860	866	VV		764198	20804153	6.72%	1.903%
75	13.816	866	868	875	VV	6	7497	380874	0.12%	0.035%
76	13.927	875	876	882	VV	2	3880	169765	0.05%	0.016%
77	14.053	882	885	890	VV	3	7361	322601	0.10%	0.030%
78	14.165	890	893	896	VV	3	4977	179341	0.06%	0.016%
79	14.221	896	897	900	VV	2	3908	85287	0.03%	0.008%
80	14.291	900	902	906	VV	5	2084	91260	0.03%	0.008%
81	14.361	906	907	914	VV	3	3069	105842	0.03%	0.010%
82	14.543	914	920	922	VV	4	2811	126638	0.04%	0.012%
83	14.599	922	924	928	VV	3	3106	107857	0.03%	0.010%
84	14.697	928	931	935	VV	2	2671	121523	0.04%	0.011%
85	14.781	935	937	940	VV	3	3895	108093	0.03%	0.010%
86	14.879	940	944	946	VV	4	3361	89904	0.03%	0.008%
87	14.935	946	948	950	VV	2	1951	38737	0.01%	0.004%
88	15.019	950	954	960	VV	2	2225	115507	0.04%	0.011%
89	15.159	960	964	970	VV	4	10628	410765	0.13%	0.038%
90	15.271	970	972	975	VV	3	2540	70799	0.02%	0.006%
91	15.383	975	980	986	VV	4	2649	174514	0.06%	0.016%
92	15.523	986	990	995	VV	4	1978	105560	0.03%	0.010%
93	15.704	995	1003	1007	VV	6	2148	116819	0.04%	0.011%
94	15.886	1007	1016	1023	VV		86127	3023327	0.98%	0.277%
95	16.012	1023	1025	1027	VV	3	2135	57246	0.02%	0.005%
96	16.068	1027	1029	1031	VV		2004	55364	0.02%	0.005%
97	16.180	1031	1037	1046	VV		745274	21204160	6.85%	1.940%
98	16.362	1046	1050	1052	VV		2064	64749	0.02%	0.006%
99	16.404	1052	1053	1055	VV	2	2263	37867	0.01%	0.003%
100	16.572	1055	1065	1071	VV	5	2813	205842	0.07%	0.019%
101	16.698	1071	1074	1077	VV	3	1621	53464	0.02%	0.005%
102	16.796	1077	1081	1091	VV	4	2888	144294	0.05%	0.013%
103	16.978	1091	1094	1096	VV	2	2540	59494	0.02%	0.005%
104	17.034	1096	1098	1104	VV	2	1898	86960	0.03%	0.008%
105	17.188	1104	1109	1113	VV	4	1895	109935	0.04%	0.010%
106	17.258	1113	1114	1121	VV	3	2010	86807	0.03%	0.008%
	17.467	1121	1129	1133	VV	3	1900	128057	0.04%	0.012%
108	17.593	1133	1138	1146	VV	3	2705	137873	0.04%	0.013%
109	17.789	1146	1152	1162	VV		611699	16010238	5.17%	1.465%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

110	17.957	1162	1164	1169	VV	2	2689	100250	0.03%	0.009%
111	18.055	1169	1171	1172	VV		2348	44520	0.01%	0.004%
112	18.111	1172	1175	1179	VV	4	2418	105707	0.03%	0.010%
113	18.307	1179	1189	1191	VV	4	3211	187252	0.06%	0.017%
114	18.349	1191	1192	1201	VV	3	2513	131886	0.04%	0.012%
115	18.559	1201	1207	1216	VV		1833352	48380286	15.62%	4.427%
116	18.727	1216	1219	1222	VV	2	4136	177110	0.06%	0.016%
117	18.797	1222	1224	1232	VV	4	3863	240608	0.08%	0.022%
118	18.937	1232	1234	1237	VV	2	2267	67733	0.02%	0.006%
119	19.006	1237	1239	1241	VV	2	1852	58986	0.02%	0.005%
120	19.076	1241	1244	1246	VV	3	2585	70171	0.02%	0.006%
121	19.160	1246	1250	1254	VV	4	2179	103435	0.03%	0.009%
122	19.342	1254	1263	1270	VV		78932	2738841	0.88%	0.251%
123	19.454	1270	1271	1273	VV		2655	59146	0.02%	0.005%
124	19.524	1273	1276	1277	VV	2	2107	58409	0.02%	0.005%
125	19.580	1277	1280	1283	VV	3	3182	104482	0.03%	0.010%
126	19.636	1283	1284	1287	VV		2030	54759	0.02%	0.005%
127	19.692	1287	1288	1290	VV		1789	29276	0.01%	0.003%
128	19.790	1290	1295	1297	VV	3	2780	118603	0.04%	0.011%
129	19.846	1297	1299	1301	VV	3	2567	60025	0.02%	0.005%
130	19.902	1301	1303	1310	VV	2	2676	143598	0.05%	0.013%
131	20.056	1310	1314	1316	VV	3	1796	65274	0.02%	0.006%
132	20.112	1316	1318	1319	VV		1313	26138	0.01%	0.002%
133	20.168	1319	1322	1325	VV	3	4535	147684	0.05%	0.014%
134	20.224	1325	1326	1329	VV		1542	41474	0.01%	0.004%
135	20.294	1329	1331	1332	VV	3	1981	34892	0.01%	0.003%
136	20.336	1332	1334	1343	VV	3	2788	157280	0.05%	0.014%
137	20.504	1343	1346	1349	VV	2	1955	58065	0.02%	0.005%
138	20.574	1349	1351	1353	VV	2	3534	63145	0.02%	0.006%
139	20.630	1353	1355	1365	VV	5	2258	146185	0.05%	0.013%
140	20.797	1365	1367	1372	VV	2	2318	92175	0.03%	0.008%
141	20.895	1372	1374	1376	VV		2673	57787	0.02%	0.005%
142	20.951	1376	1378	1381	VV	2	2035	61738	0.02%	0.006%
143	21.021	1381	1383	1386	VV	3	2558	60515	0.02%	0.006%
144	21.105	1386	1389	1400	VV	4	2554	178779	0.06%	0.016%
[illegible]	21.287	1400	1402	1403	PV	2	897	11830	0.00%	0.001%
146	21.399	1403	1410	1424	VV	7	5024	346027	0.11%	0.032%

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

147	21.693	1424	1431	1435	VV	5	2420	140229	0.05%	0.013%
148	21.777	1435	1437	1445	VV	4	1920	101148	0.03%	0.009%
149	21.959	1445	1450	1453	VV	4	2445	96439	0.03%	0.009%
150	22.043	1453	1456	1460	VV	3	2080	72914	0.02%	0.007%
151	22.141	1460	1463	1465	VV	3	1591	59848	0.02%	0.005%
152	22.197	1465	1467	1469	VV	3	1760	44838	0.01%	0.004%
153	22.253	1469	1471	1476	VV	3	3106	85883	0.03%	0.008%
154	22.379	1476	1480	1483	VV	3	4473	171816	0.06%	0.016%
155	22.435	1483	1484	1487	VV		2379	45808	0.01%	0.004%
156	22.504	1487	1489	1490	VV	2	1796	31914	0.01%	0.003%
157	22.560	1490	1493	1497	VV	4	1520	49360	0.02%	0.005%
158	22.672	1497	1501	1509	VV	4	6623	263574	0.09%	0.024%
159	22.812	1509	1511	1515	VV		3577	114128	0.04%	0.010%
160	22.896	1515	1517	1520	VV	3	2458	64970	0.02%	0.006%
1	22.952	1520	1521	1524	VV	3	1071	28827	0.01%	0.003%
162	23.036	1524	1527	1529	PV	2	2528	58811	0.02%	0.005%
163	23.078	1529	1530	1532	VV		1583	33350	0.01%	0.003%
164	23.148	1532	1535	1537	VV	4	3055	73443	0.02%	0.007%
165	23.274	1537	1544	1547	VV	5	2563	110020	0.04%	0.010%
166	23.344	1547	1549	1554	VV	3	1979	84612	0.03%	0.008%
167	23.498	1554	1560	1563	VV	3	2186	101292	0.03%	0.009%
168	23.568	1563	1565	1567	VV	2	3026	48119	0.02%	0.004%
169	23.694	1567	1574	1576	VV	4	2674	129140	0.04%	0.012%
170	23.750	1576	1578	1581	VV	3	1507	44124	0.01%	0.004%
171	23.848	1581	1585	1587	PV	3	1020	25621	0.01%	0.002%

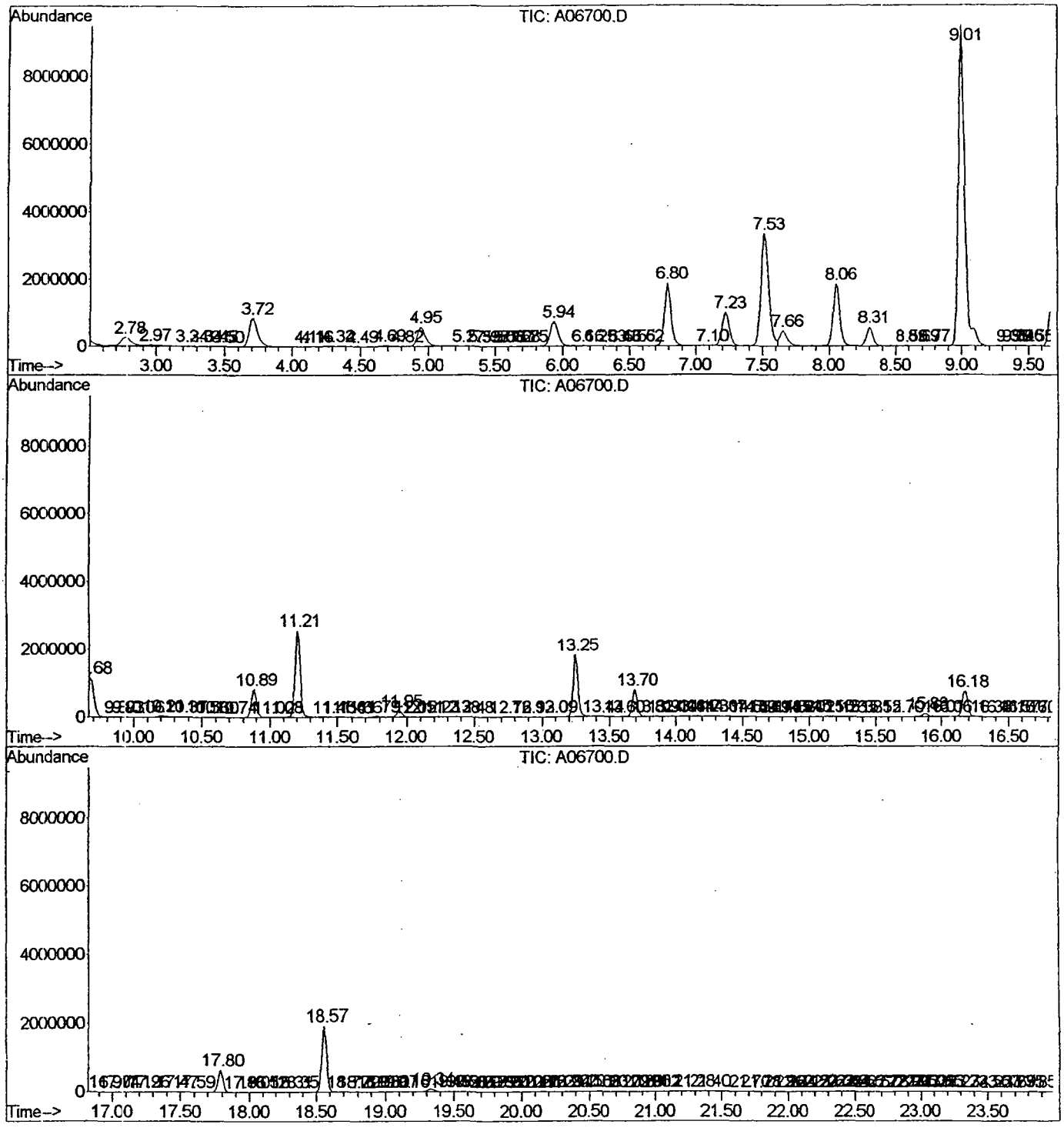
Sum of corrected areas: 1092951271

LSC Report - Integrated Chromatogram

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

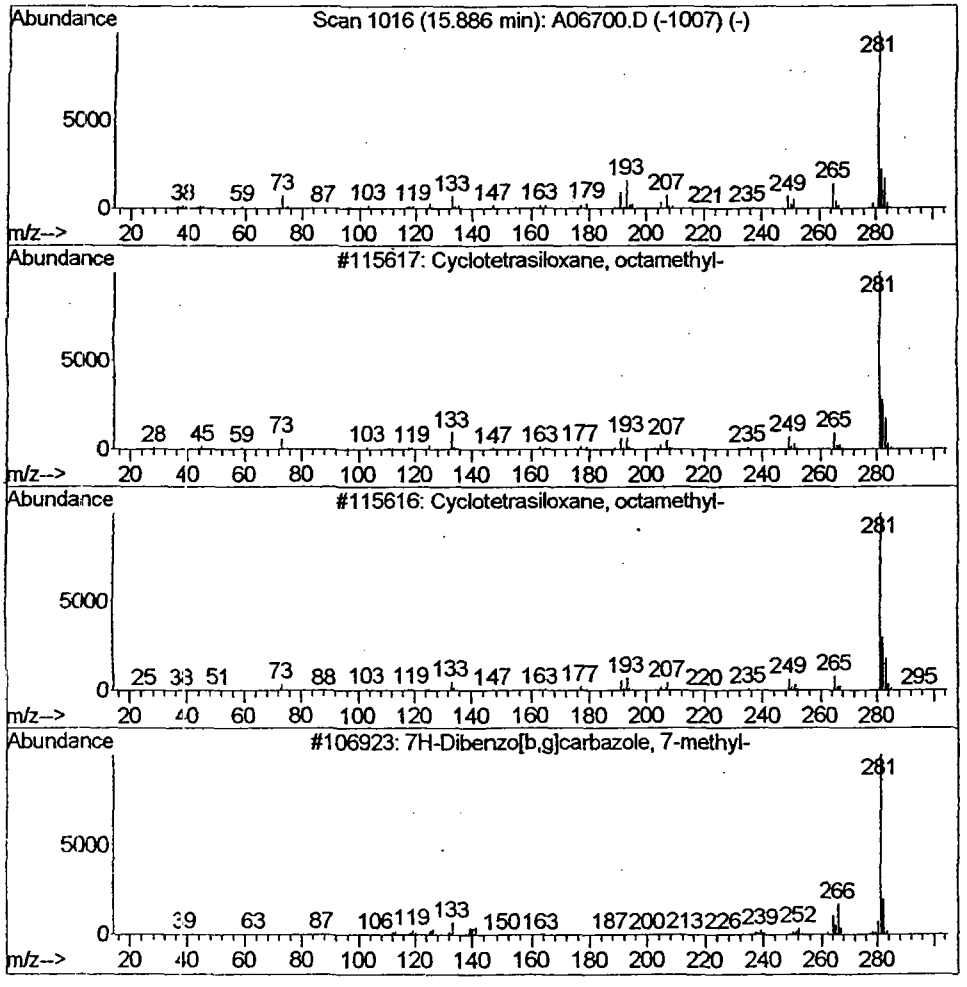
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

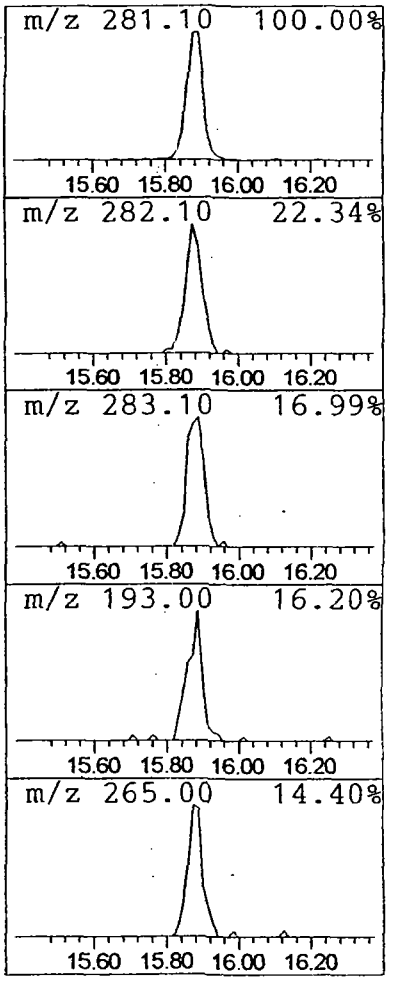
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 1 Cyclotetrasiloxane, octamet... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.88	0.94 ug/L	3023330	1,4-Dichlorobenzene-d4	17.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	83
2	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	59
3	7H-Dibenzo[b,g]carbazole, 7-methyl-	281	C21H15N	003557-49-1	53
4	Benzene, 1-phenyl-4-(2-cyano-2-p...	281	C21H15N	027869-56-3	53
5	5-(p-Aminophenyl)-4-(p-tolyl)-2-...	281	C16H15N3S	094460-46-5	53





Library Search Compound Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

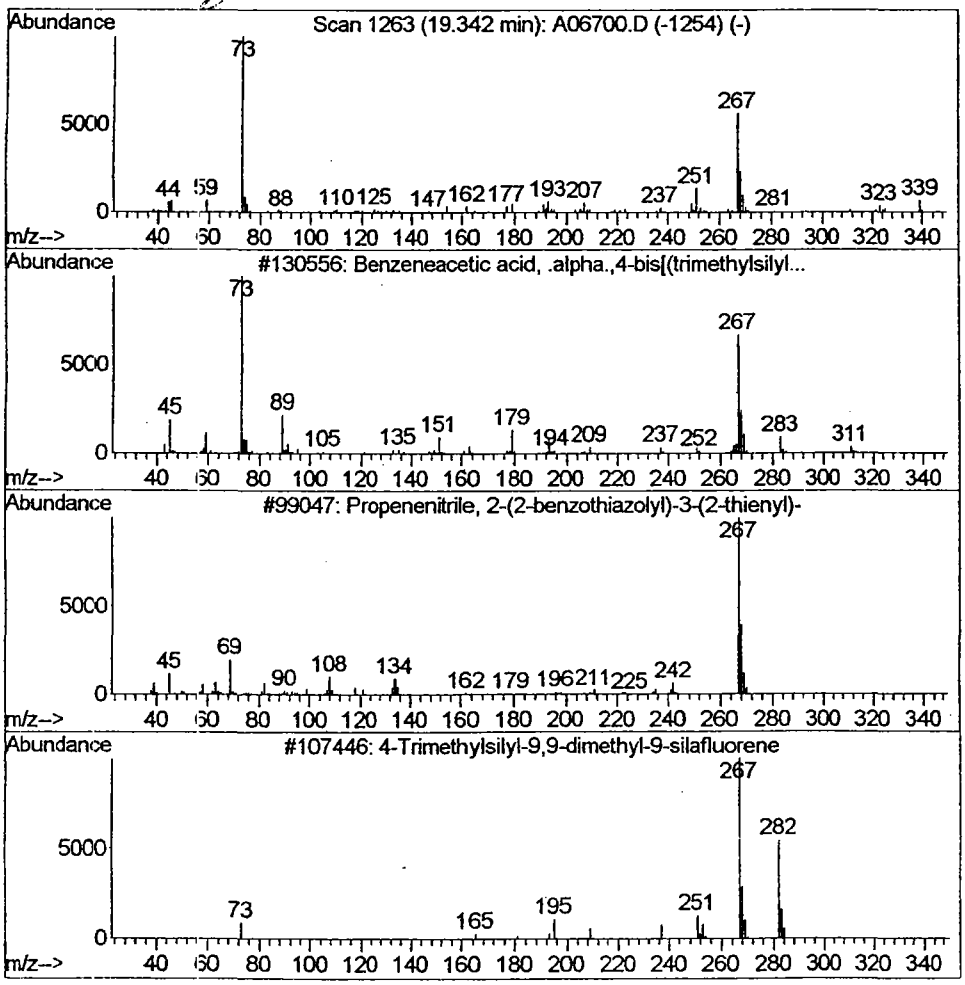
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

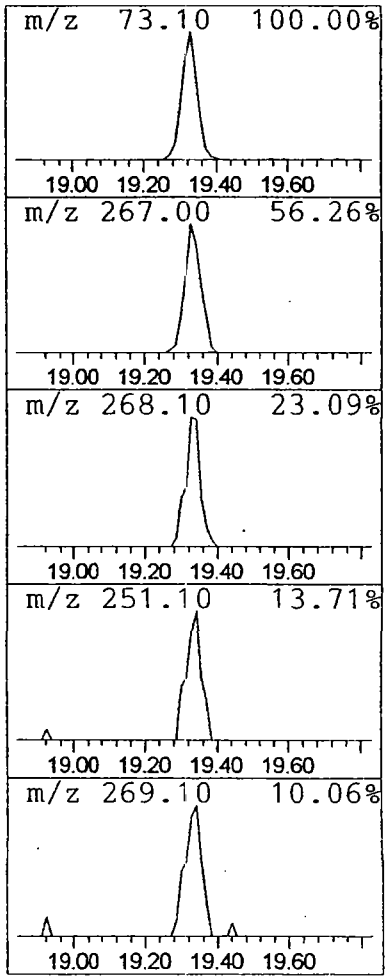
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 2 Benzeneacetic acid, .alpha.... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.34	0.86 ug/L	2738840	1,4-Dichlorobenzene-d4	17.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzeneacetic acid, alpha.,4-bi...	326	C15H26O4Si2	055334-40-2	59
2	Propenenitrile, 2-(2-benzothiazo...	268	C14H8N2S2	106833-31-2	43
3	4-Trimethylsilyl-9,9-dimethyl-9-...	282	C17H22Si2	058263-56-2	42
4	3-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-88-9	42
5	4-Hydroxymandelic acid, ethyl es...	340	C16H28O4Si2	1000071-53-3	40





Tentatively Identified Compound (LSC) Summary

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06700.D
Acq On : 12/14/06 14:18 Operator: SB
Sample : E2P16 Inst : A-5973
Misc : S-0349.17 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Cyclotetrasiloxan...	15.88	0.9	ug/L	3023330	3	17.80	16010200	5.0
Benzeneacetic aci...	19.34	0.9	ug/L	2738840	3	17.80	16010200	5.0

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

EPA SAMPLE NO.
VBLKDR

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

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

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06696

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

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.52	
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

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

EPA SAMPLE NO.
VBLKDR

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

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

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06696

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

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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

EPA SAMPLE NO.
VBLKDR

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P00

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

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06696

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

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	2.93	0.94	J
02		Unknown-02	10.88	12	J
03		Unknown-03	20.17	1.1	J
04		Unknown-04	21.05	0.61	J
05	000120-82-1	Benzene, 1,2,4-trichloro-	21.39	0.86	NJ
06	000120-82-1	Benzene, 1,2,4-trichloro-	22.37	0.86	NJ
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	0	

[1] EPA-designated Registry Number.

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\A-5973\A06696.D
Acq On : 12/14/06 11:44
Sample : VBLKDR
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

Operator: SB
Inst : A-5973

ORIGINAL
Case: 35991 SDG: E2P00
Episode: S-0349 Init/date: JM 12/20/06

Quant Time: Dec 14 14:10:16 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Dec 14 11:01:40 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	9.09	114	4164305	5.00 ug/L	0.00
30) Chlorobenzene-d5	13.69	117	6031914	5.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	17.79	152	2287788	5.00 ug/L	0.00

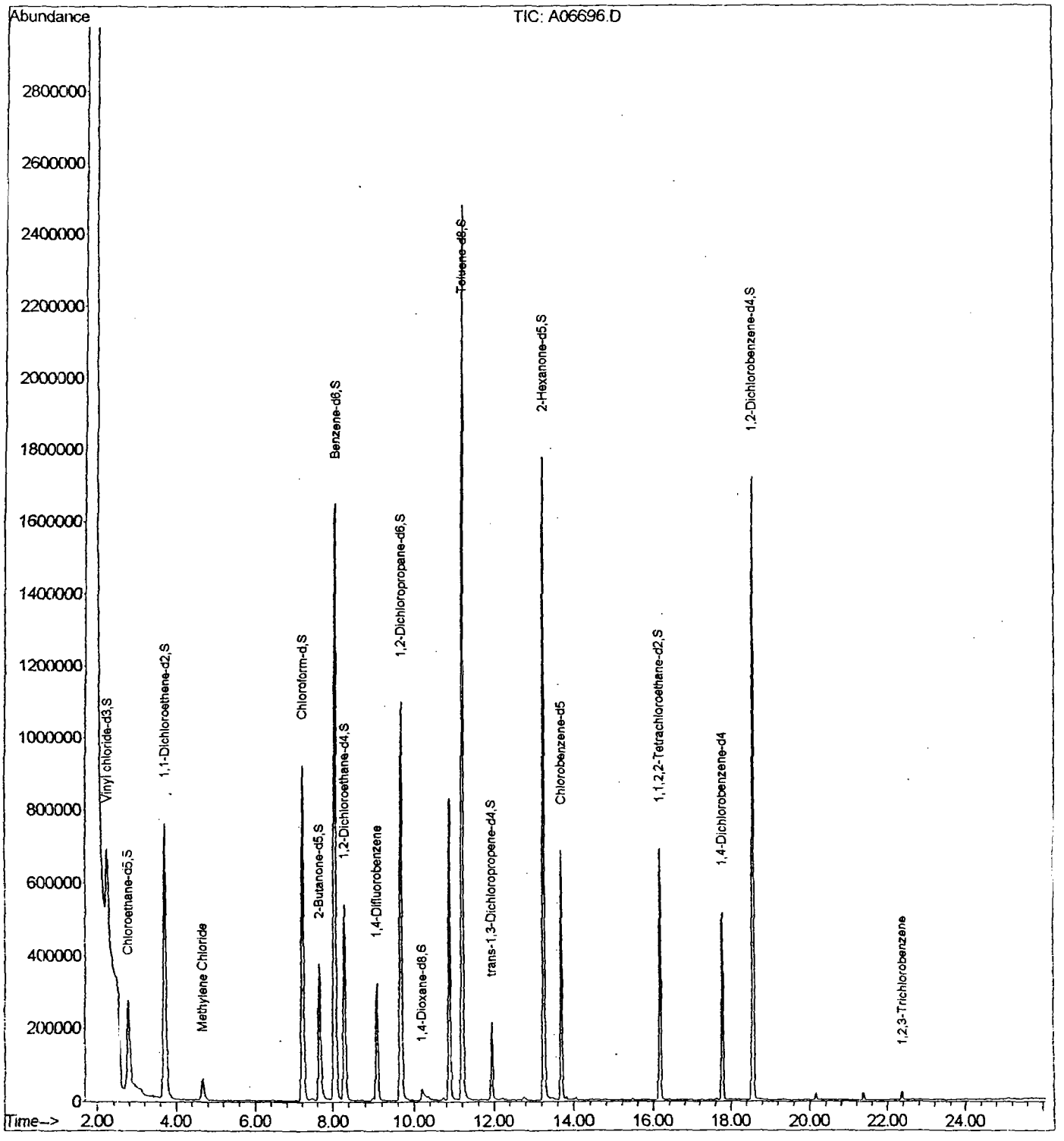
System Monitoring Compounds					
4) Vinyl chloride-d3	2.25	65	7255108	5.76 ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery	= 115.20%	
7) Chloroethane-d5	2.77	69	5329921	5.74 ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery	= 114.80%	
10) 1,1-Dichloroethene-d2	3.70	63	12886582	4.85 ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery	= 97.00%	
21) 2-Butanone-d5	7.65	46	10783477	53.47 ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery	= 106.94%	
24) Chloroform-d	7.22	84	13629422	5.54 ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery	= 110.80%	
26) 1,2-Dichloroethane-d4	8.30	65	7150755	5.64 ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery	= 112.80%	
28) 1,4-Dioxane-d8	10.20	96	570075	305.63 ug/L	0.00
Spiked Amount 250.000	Range 50 - 150		Recovery	= 122.25%	
34) Benzene-d6	8.05	84	27918265	4.96 ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery	= 99.20%	
38) 1,2-Dichloropropane-d6	9.68	67	8129690	4.93 ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery	= 98.60%	
43) Toluene-d8	11.20	98	25414390	5.43 ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery	= 108.60%	
45) trans-1,3-Dichloropropene-	11.94	79	1673771	4.19 ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery	= 83.80%	
49) 2-Hexanone-d5	13.24	63	7969831	51.29 ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery	= 102.58%	
59) 1,1,2,2-Tetrachloroethane-	16.17	84	5466449	4.70 ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery	= 94.00%	
65) 1,2-Dichlorobenzene-d4	18.56	152	7460946	6.09 ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery	= 121.80%	

Target Compounds					Qvalue
16) Methylene Chloride	4.67	84	553728	0.52 ug/L #	74
69) 1,2,3-Trichlorobenzene	22.38	180	132035	0.27 ug/L	97

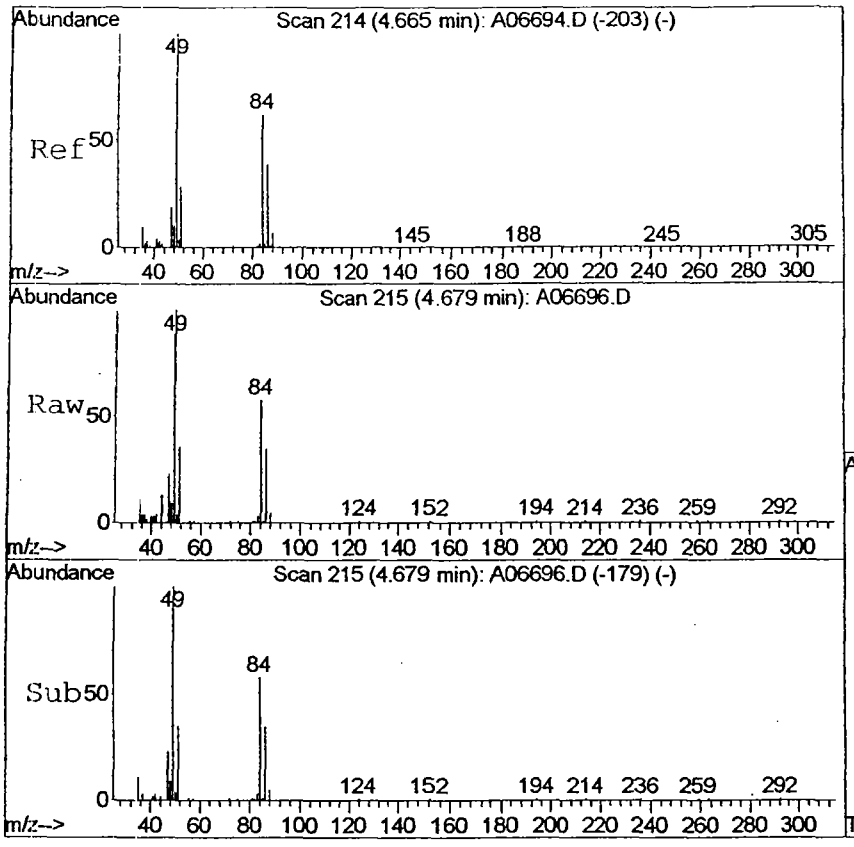
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\MSDChem\1\A-5973\A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 14 14:10:16 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Thu Dec 14 11:01:40 2006
Response via : Initial Calibration

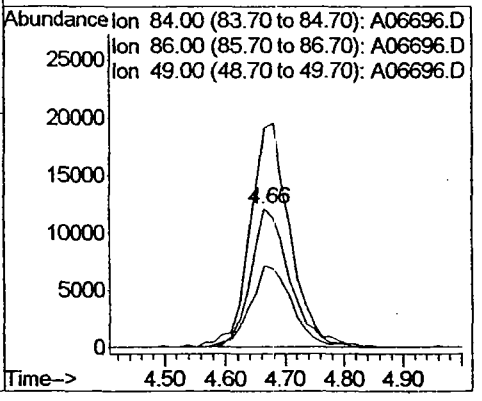


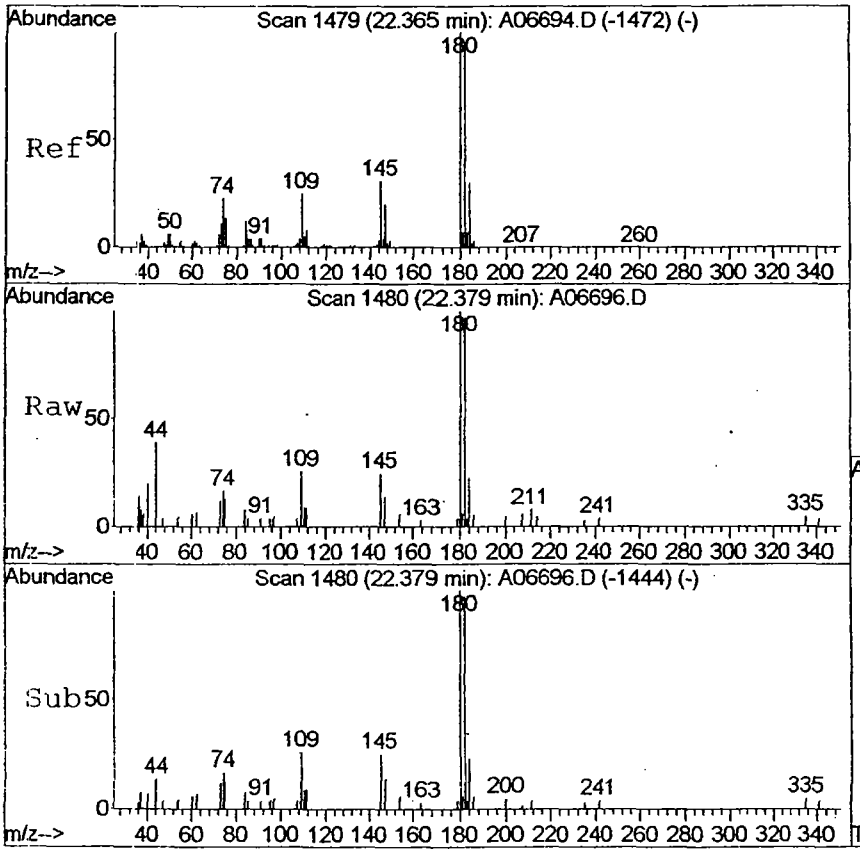
Data File : C:\MSDChem\1\A-5973\A06696.D Vial: 6
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#16
Methylene Chloride
Concen: 0.52 ug/L
RT: 4.67 min Scan# 215
Delta R.T. 0.01 min
Integration Range:
Scan=206 to 227
R.T.= 4.55 to 4.85 (min)
Tgt Ion: 84 Resp: 553728

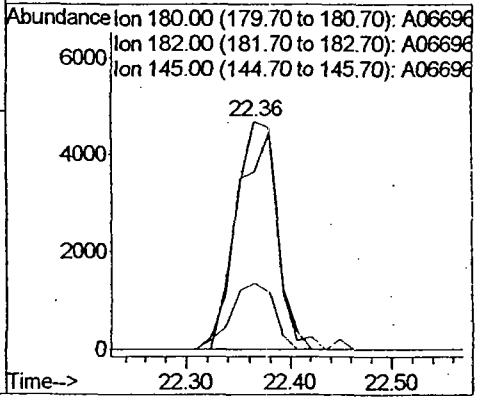
Ion	Ratio	Lower	Upper
84	100		
86	63.3	51.6	77.4
49	165.1	97.1	145.7#





#69
1,2,3-Trichlorobenzene
Concen: 0.27 ug/L
RT: 22.38 min Scan# 1480
Delta R.T. 0.01 min
Integration Range:
Scan=1475 to 1488
R.T.= 22.31 to 22.49 (min)
Tgt Ion:180 Resp: 132035

Ion	Ratio	Lower	Upper
180	100		
182	92.1	76.2	114.2
145	29.4	24.6	36.8



LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.244	36	41	72	BV	227312	16201296	14.98%	0.463%
2	2.762	72	78	109	PV	239307	14329878	13.25%	0.410%
3	3.224	109	111	119	PV 8	1855	65879	0.06%	0.002%
4	3.392	119	123	125	VV 5	4148	86572	0.08%	0.002%
5	3.448	125	127	132	PV 5	3310	154210	0.14%	0.004%
6	3.532	132	133	137	VV 4	4004	140331	0.13%	0.004%
7	3.699	137	145	164	VV	749831	36350594	33.62%	1.040%
8	3.979	164	165	170	VV 2	9567	431670	0.40%	0.012%
9	4.063	170	171	173	VV	11605	339744	0.31%	0.010%
10	4.147	173	177	178	VV 2	11985	468183	0.43%	0.013%
11	4.189	178	180	182	VV 3	14693	453308	0.42%	0.013%
12	4.385	182	194	199	VV 5	18253	2175903	2.01%	0.062%
13	4.539	199	205	207	VV 5	21666	1409248	1.30%	0.040%
14	4.679	207	215	226	VV	81625	6518635	6.03%	0.186%
15	4.847	226	227	238	VV 4	29216	3112762	2.88%	0.089%
16	5.029	238	240	245	VV 4	32993	1833627	1.70%	0.052%
17	5.113	245	246	248	VV	34246	826061	0.76%	0.024%
18	5.197	248	252	254	VV 3	36239	1803412	1.67%	0.052%
19	5.267	254	257	259	VV 2	37630	1435000	1.33%	0.041%
20	5.309	259	260	265	VV 2	39026	1931041	1.79%	0.055%
21	5.434	265	269	271	VV 2	41697	2149657	1.99%	0.061%
22	5.476	271	272	279	VV 2	43197	2877584	2.66%	0.082%
23	5.658	279	285	286	VV 3	47030	2855027	2.64%	0.082%
24	5.700	286	288	290	VV 2	48353	1370914	1.27%	0.039%
25	5.770	290	293	298	VV 2	49606	3283581	3.04%	0.094%
26	5.882	298	301	305	VV 3	52481	3160417	2.92%	0.090%
27	5.952	305	306	310	VV 2	54400	2328240	2.15%	0.067%
28	6.078	310	315	321	VV 4	57535	5477327	5.07%	0.157%
29	6.204	321	324	331	VV 4	60248	5042171	4.66%	0.144%
30	6.330	331	333	336	VV	62669	2256809	2.09%	0.065%
31	6.442	336	341	346	VV 3	66880	5887071	5.44%	0.168%
32	6.554	346	349	351	VV 2	69189	2908446	2.69%	0.083%
[illegible]	6.610	351	353	356	VV 2	70119	2983204	2.76%	0.085%
34	6.722	356	361	365	VV 2	72985	5060880	4.68%	0.145%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

35	6.792	365	366	368	VV	2	74194	1872454	1.73%	0.054%
36	6.834	368	369	371	VV	2	75746	2308594	2.14%	0.066%
37	6.946	371	377	379	VV	3	78213	5173582	4.79%	0.148%
38	7.072	379	386	388	VV		81577	5664009	5.24%	0.162%
39	7.225	388	397	409	VV		975663	49970197	46.22%	1.429%
40	7.463	409	414	419	VV	5	97036	8205742	7.59%	0.235%
41	7.659	419	428	443	VV		457807	35747664	33.06%	1.022%
42	8.051	443	456	467	VV		1764822	83564970	77.29%	2.390%
43	8.303	467	474	493	VV		645742	45119696	41.73%	1.290%
44	8.597	493	495	499	VV	4	119566	5718791	5.29%	0.164%
45	8.723	499	504	510	VV	4	122419	11532563	10.67%	0.330%
46	8.848	510	513	516	VV		125272	6251968	5.78%	0.179%
47	8.988	516	523	525	VV	4	135514	9667217	8.94%	0.276%
48	9.086	525	530	541	VV		442939	28458865	26.32%	0.814%
49	9.268	541	543	547	VV	3	136596	6554524	6.06%	0.187%
50	9.366	547	550	552	VV		138498	6110111	5.65%	0.175%
51	9.422	552	554	557	VV	2	139637	5378344	4.97%	0.154%
52	9.492	557	559	562	VV	2	142046	6401803	5.92%	0.183%
53	9.562	562	564	565	VV	2	142877	3258635	3.01%	0.093%
54	9.674	565	572	587	VV		1205233	64554113	59.71%	1.846%
55	9.898	587	588	590	VV	3	151593	3801522	3.52%	0.109%
56	9.954	590	592	596	VV	2	153098	8022709	7.42%	0.229%
57	10.038	596	598	601	VV	3	154557	6006682	5.56%	0.172%
58	10.192	601	609	619	VV	3	189290	25394681	23.49%	0.726%
59	10.360	619	621	625	VV	3	171631	8281607	7.66%	0.237%
60	10.430	625	626	630	VV	3	166449	6973730	6.45%	0.199%
61	10.500	630	631	633	VV	2	165998	4774713	4.42%	0.137%
62	10.583	633	637	639	VV		168250	7815521	7.23%	0.224%
63	10.625	639	640	642	VV	2	169460	5053573	4.67%	0.145%
64	10.723	642	647	652	VV	6	178633	14772693	13.66%	0.422%
65	10.877	652	658	667	VV		1016398	46699698	43.19%	1.336%
66	11.017	667	668	675	VV	5	182914	11735965	10.85%	0.336%
67	11.199	675	681	699	VV		2558708	108120474	100.00%	3.092%
68	11.479	699	701	709	VV	4	191204	16801272	15.54%	0.481%
69	11.661	709	714	717	VV	5	195546	12707572	11.75%	0.363%
70	11.731	717	719	720	VV		198310	5063682	4.68%	0.145%
[illegible]	11.773	720	722	725	VV	3	199672	8960920	8.29%	0.256%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

72	11.941	725	734	746	VV		404261	41439390	38.33%	1.185%
73	12.207	746	753	768	VV	5	212365	37735746	34.90%	1.079%
74	12.458	768	771	778	VV	3	215274	18859831	17.44%	0.539%
75	12.612	778	782	788	VV	4	218500	18070468	16.71%	0.517%
76	12.752	788	792	799	VV	3	227885	21511948	19.90%	0.615%
77	12.878	799	801	802	VV		224309	5697020	5.27%	0.163%
78	12.920	802	804	810	VV	4	225251	14243254	13.17%	0.407%
79	13.046	810	813	815	VV	2	227507	9287242	8.59%	0.266%
80	13.116	815	818	820	VV	2	230395	9130544	8.44%	0.261%
81	13.242	820	827	838	VV		1963513	83327451	77.07%	2.383%
82	13.424	838	840	843	VV	3	243470	8938521	8.27%	0.256%
83	13.494	843	845	853	VV	7	245087	20857494	19.29%	0.597%
84	13.690	853	859	865	VV		928397	44366866	41.03%	1.269%
85	13.816	865	868	871	VV	2	253949	12445518	11.51%	0.356%
86	13.900	871	874	877	VV		251171	13350051	12.35%	0.382%
87	13.983	877	880	882	VV	2	252319	8767534	8.11%	0.251%
88	14.067	882	886	888	VV	4	258273	14719050	13.61%	0.421%
89	14.123	888	890	894	VV	2	254996	12102433	11.19%	0.346%
90	14.207	894	896	903	VV	3	257500	19877206	18.38%	0.568%
91	14.333	903	905	906	VV		259384	6929102	6.41%	0.198%
92	14.389	906	909	910	VV	2	261194	8630474	7.98%	0.247%
93	14.445	910	913	917	VV	2	263719	15453110	14.29%	0.442%
94	14.543	917	920	925	VV	4	264844	17159032	15.87%	0.491%
95	14.655	925	928	934	VV	3	267933	19482893	18.02%	0.557%
96	14.781	934	937	941	VV	4	271940	17434678	16.13%	0.499%
97	14.879	941	944	948	VV	2	274046	14830506	13.72%	0.424%
98	14.963	948	950	952	VV	3	275034	10411552	9.63%	0.298%
99	15.033	952	955	958	VV	3	277370	12322422	11.40%	0.352%
100	15.089	958	959	965	VV	4	277941	17023663	15.75%	0.487%
101	15.327	965	976	982	VV	4	284843	39190787	36.25%	1.121%
102	15.481	982	987	992	VV	6	290514	26431864	24.45%	0.756%
103	15.579	992	994	996	VV	2	289547	8038376	7.43%	0.230%
104	15.621	996	997	1000	VV		291125	9119159	8.43%	0.261%
105	15.690	1000	1002	1004	VV	2	293252	11542664	10.68%	0.330%
106	15.746	1004	1006	1014	VV	2	294483	24498787	22.66%	0.701%
107	15.872	1014	1015	1021	VV	3	298818	16742439	15.48%	0.479%
108	15.984	1021	1023	1025	VV	2	299745	9455608	8.75%	0.270%
109	16.026	1025	1026	1029	VV	2	300845	12447627	11.51%	0.356%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

110	16.180	1029	1037	1044	VV		972425	54403499	50.32%	1.556%
111	16.278	1044	1044	1051	VV	2	308217	18532439	17.14%	0.530%
112	16.418	1051	1054	1056	VV	3	311822	15125329	13.99%	0.433%
113	16.474	1056	1058	1061	VV	2	311880	12215938	11.30%	0.349%
114	16.544	1061	1063	1075	VV	4	313643	36019592	33.31%	1.030%
115	16.740	1075	1077	1081	VV	3	318377	15907215	14.71%	0.455%
116	16.866	1081	1086	1089	VV	3	322381	22638749	20.94%	0.647%
117	16.950	1089	1092	1100	VV	6	326392	28833796	26.67%	0.825%
118	17.104	1100	1103	1105	VV	2	327366	14832527	13.72%	0.424%
119	17.146	1105	1106	1110	VV	4	328497	12945230	11.97%	0.370%
120	17.272	1110	1115	1118	VV	4	332527	23916392	22.12%	0.684%
121	17.453	1118	1128	1132	VV	4	336507	38949675	36.02%	1.114%
122	17.635	1132	1141	1145	VV	2	344905	37478036	34.66%	1.072%
123	17.789	1145	1152	1161	VV		867698	58058422	53.70%	1.660%
124	17.929	1161	1162	1166	VV	3	348450	16613125	15.37%	0.475%
125	18.013	1166	1168	1170	VV	2	351087	11061610	10.23%	0.316%
126	18.083	1170	1173	1178	VV	3	352413	23923535	22.13%	0.684%
127	18.181	1178	1180	1183	VV	3	354616	14237857	13.17%	0.407%
128	18.251	1183	1185	1188	VV	3	355690	14446419	13.36%	0.413%
129	18.321	1188	1190	1191	VV	2	358478	10320783	9.55%	0.295%
130	18.363	1191	1193	1197	VV		359287	16690471	15.44%	0.477%
131	18.447	1197	1199	1201	VV	2	360587	11463928	10.60%	0.328%
132	18.559	1201	1207	1218	VV		2096349	100306991	92.77%	2.869%
133	18.741	1218	1220	1222	VV	2	369414	12713688	11.76%	0.364%
134	18.797	1222	1224	1231	VV	2	370149	25503699	23.59%	0.729%
135	18.909	1231	1232	1242	VV	3	373232	36450413	33.71%	1.042%
136	19.090	1242	1245	1249	VV	3	376568	21976582	20.33%	0.629%
137	19.202	1249	1253	1257	VV	4	379253	26483815	24.49%	0.757%
138	19.328	1257	1262	1267	VV	5	383830	29136100	26.95%	0.833%
139	19.426	1267	1269	1276	VV	3	385750	29821631	27.58%	0.853%
140	19.538	1276	1277	1283	VV	2	386922	24443670	22.61%	0.699%
141	19.650	1283	1285	1287	VV	2	390251	13016888	12.04%	0.372%
142	19.706	1287	1289	1293	VV	3	391969	17789505	16.45%	0.509%
143	19.790	1293	1295	1296	VV	2	393247	11804437	10.92%	0.338%
144	19.832	1296	1298	1300	VV	2	394685	13798139	12.76%	0.395%
145	19.888	1300	1302	1304	VV	3	396636	11112014	10.28%	0.318%
146	19.944	1304	1306	1312	VV	2	397632	27874153	25.78%	0.797%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

147	20.154	1312	1321	1329	VV	2	420436	58798062	54.38%	1.682%
148	20.294	1329	1331	1333	VV	2	407135	13051128	12.07%	0.373%
149	20.350	1333	1335	1339	VV	2	408158	19738877	18.26%	0.565%
150	20.448	1339	1342	1346	VV	3	409717	24000465	22.20%	0.686%
151	20.532	1346	1348	1350	VV	2	411880	14784142	13.67%	0.423%
152	20.616	1350	1354	1358	VV	4	413660	25747190	23.81%	0.736%
153	20.700	1358	1360	1362	VV	2	416505	15151442	14.01%	0.433%
154	20.756	1362	1364	1372	VV	5	418722	35306001	32.65%	1.010%
155	20.895	1372	1374	1382	VV	4	420407	34774295	32.16%	0.995%
156	21.063	1382	1386	1387	VV	2	424278	19850816	18.36%	0.568%
157	21.119	1387	1390	1394	VV	3	426539	22607025	20.91%	0.647%
158	21.217	1394	1397	1399	VV	3	428502	17546368	16.23%	0.502%
159	21.259	1399	1400	1403	VV	2	429612	15561877	14.39%	0.445%
160	21.385	1403	1409	1414	VV		453026	40307873	37.28%	1.153%
161	21.469	1414	1415	1420	VV	3	435288	21232853	19.64%	0.607%
162	21.567	1420	1422	1425	VV	3	437353	20971740	19.40%	0.600%
163	21.651	1425	1428	1431	VV	3	440038	19746586	18.26%	0.565%
164	21.721	1431	1433	1437	VV	3	441292	23236654	21.49%	0.665%
165	21.791	1437	1438	1440	VV	2	443210	12106437	11.20%	0.346%
166	21.847	1440	1442	1444	VV	3	443372	13124773	12.14%	0.375%
167	21.903	1444	1446	1451	VV	3	446216	27468957	25.41%	0.786%
168	22.001	1451	1453	1459	VV	3	448107	29559260	27.34%	0.845%
169	22.127	1459	1462	1467	VV	3	452218	28107125	26.00%	0.804%
170	22.225	1467	1469	1471	VV	2	453416	17310831	16.01%	0.495%
171	22.281	1471	1473	1474	VV		455108	11583704	10.71%	0.331%
172	22.365	1474	1479	1489	VV	3	480098	59202239	54.76%	1.693%
173	22.532	1489	1491	1493	VV		462632	13440400	12.43%	0.384%
174	22.644	1493	1499	1503	VV	5	465785	40279701	37.25%	1.152%
175	22.728	1503	1505	1507	VV	2	466258	15843519	14.65%	0.453%
176	22.784	1507	1509	1514	VV	5	468029	26062597	24.11%	0.745%
177	22.910	1514	1518	1520	VV	4	472061	25479169	23.57%	0.729%
178	22.966	1520	1522	1526	VV		472362	22881156	21.16%	0.654%
179	23.064	1526	1529	1533	VV	2	474693	25513973	23.60%	0.730%
180	23.134	1533	1534	1536	VV		476881	14228510	13.16%	0.407%
181	23.190	1536	1538	1542	VV	3	478069	24718884	22.86%	0.707%
182	23.274	1542	1544	1546	VV	3	480585	14794615	13.68%	0.423%
183	23.316	1546	1547	1549	VV	2	481245	12711175	11.76%	0.364%
184	23.372	1549	1551	1558	VV	5	482537	35138922	32.50%	1.005%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

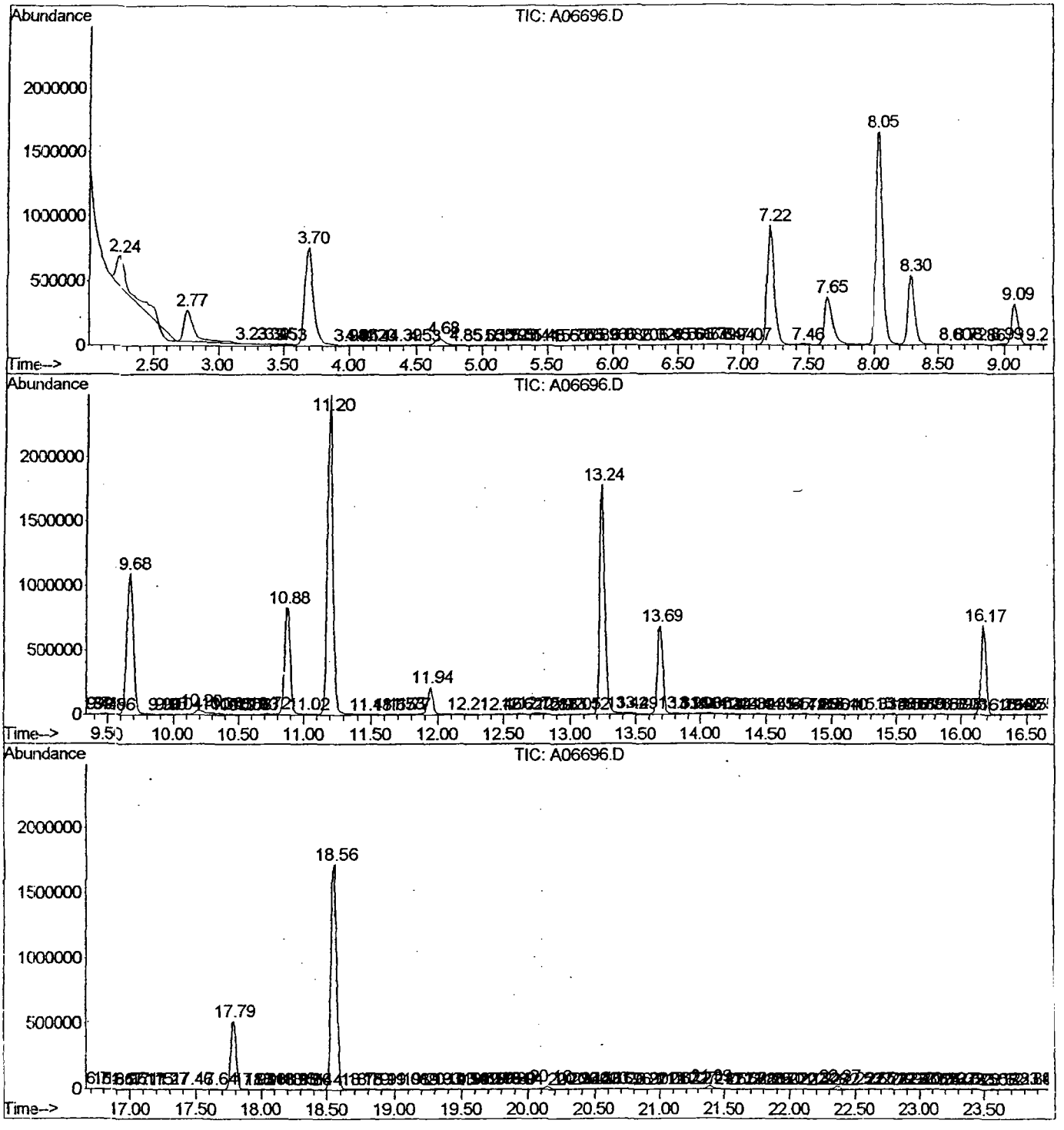
185	23.498	1558	1560	1562	VV 2	484791	16242128	15.02%	0.465%
186	23.582	1562	1566	1567	VV 3	488105	23494364	21.73%	0.672%
187	23.624	1567	1569	1578	VV 5	489300	43040576	39.81%	1.231%
188	23.834	1578	1584	1588	VV 4	495817	40553332	37.51%.	1.160%
189	23.904	1588	1589	1590	VBA	497126	8338918	7.71%	0.238%

Sum of corrected areas: 3496566801

Data Path : C:\MSDChem\1\A-5973\
Data File : A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDChem\1\A-5973\
Data File : A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

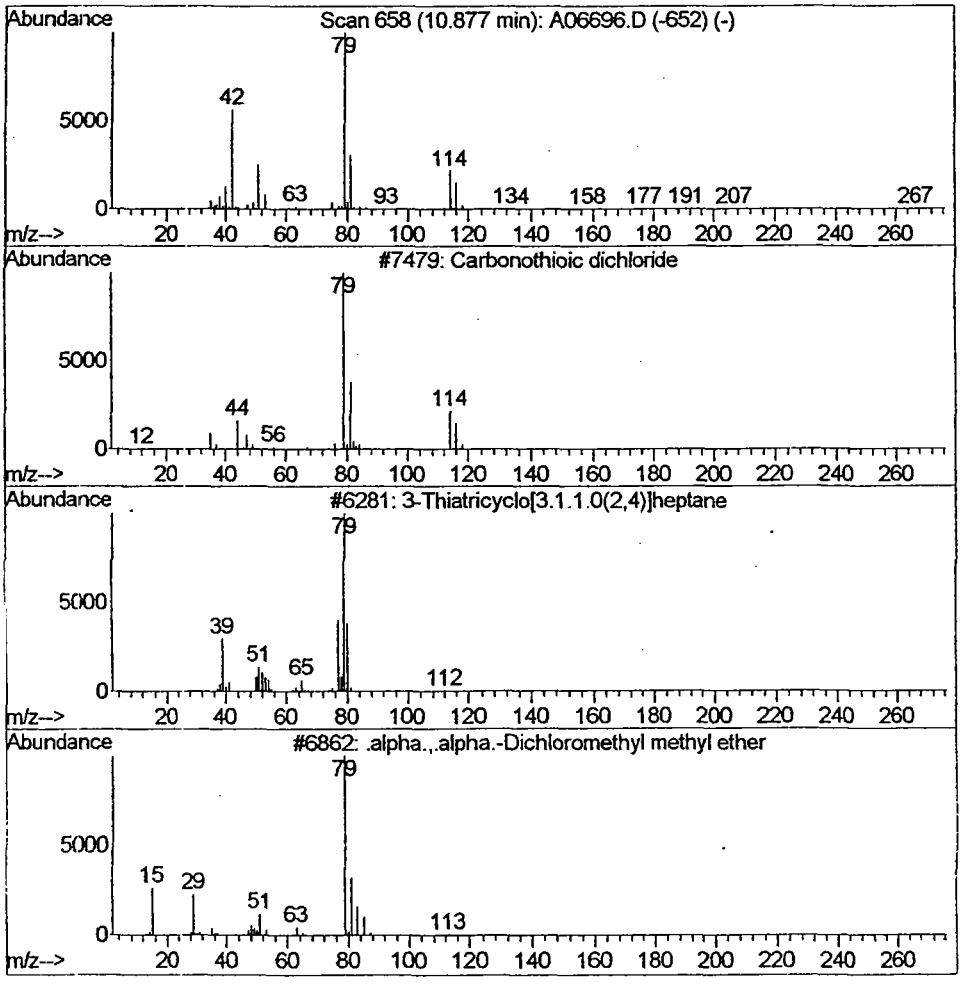
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

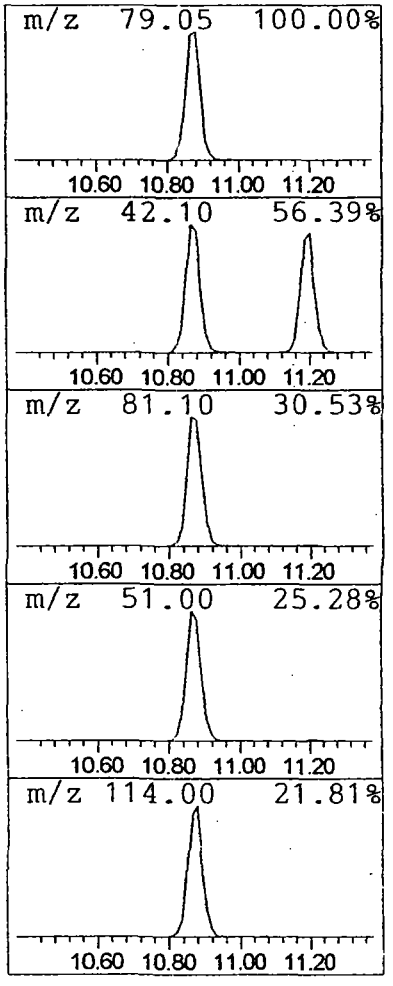
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.88	8.20 ug/L	46699700	1,4-Difluorobenzene	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	25
3	.alpha.,.alpha.-Dichloromethyl m...	114	C2H4Cl2O	004885-02-3	25
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23





Data Path : C:\MSDChem\1\A-5973\
Data File : A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

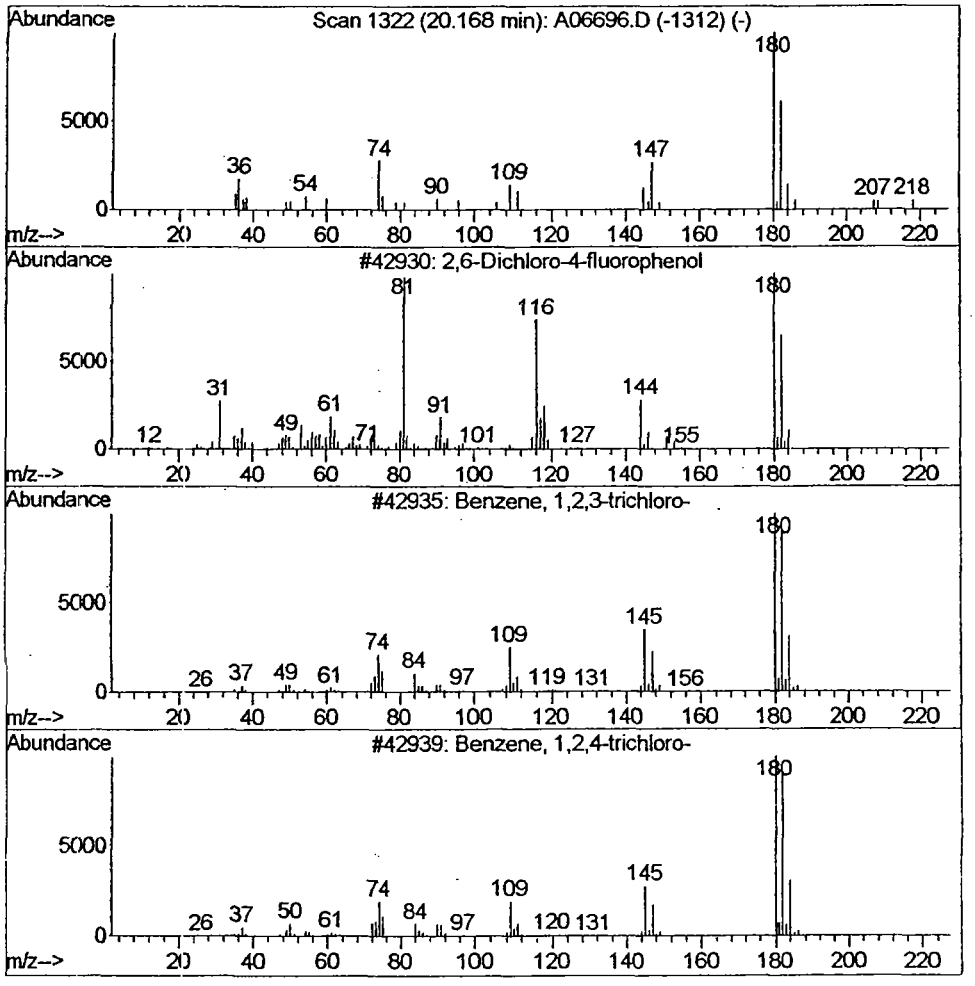
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

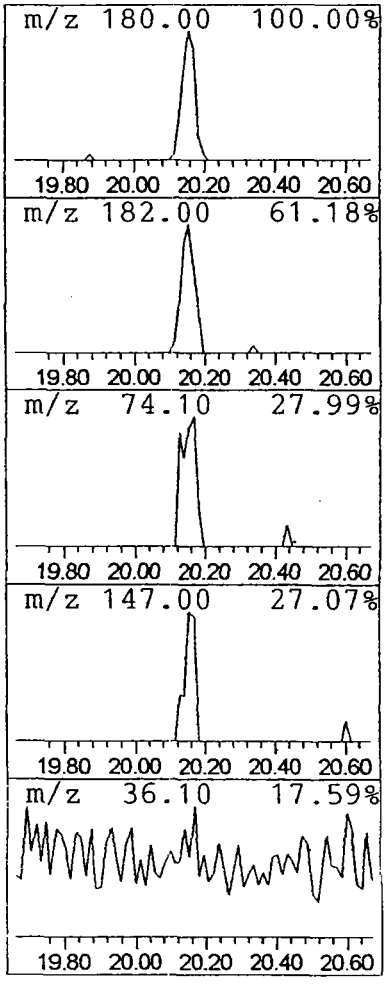
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 2 2,6-Dichloro-4-fluorophenol Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.17	5.06 ug/L	58737200	1,4-Dichlorobenzene-d4	17.79

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6-Dichloro-4-fluorophenol	180	C6H3Cl2FO	000392-71-2	50
2	Benzene, 1,2,3-trichloro-	180	C6H3Cl3	000087-61-6	49
3	Benzene, 1,2,4-trichloro-	180	C6H3Cl3	000120-82-1	49
4	Benzene, 1,3,5-trichloro-	180	C6H3Cl3	000108-70-3	47
5	Benzene, 1,2,3-trichloro-	180	C6H3Cl3	000087-61-6	47





Data Path : C:\MSDChem\1\A-5973\
Data File : A06696.D
Acq On : 12/14/06 11:44 Operator: SB
Sample : VBLKDR Inst : A-5973
Misc : VBLKDR 25ML
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Carbonothioic dic...	10.88	8.2	ug/L	46699700	1	9.09	28458900	5.0
2,6-Dichloro-4-fl...	20.17	5.1	ug/L	58737200	3	17.79	58058400	5.0

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E2P00 CERCLIS No: IN9880073785

Case No: 35998 Site Name/Location: Usher Street Groundwater (IN)

Contractor or EPA Lab: KAP Data User: IDEM

No. of Samples: 20 Date Sampled or Date Received: 28 Dec 06

Have Chain-of-Custody records been received? Yes X No ____

Have traffic reports or packing lists been received? Yes X No ____

If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____

If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____

No of samples claimed: ____ No. of samples received: ____

Received by: Laura Johnson Date: 28 Dec 06

Received by LSSS: Laura Johnson Date: 3 Jan 07

Review started: Jan 11, 2007 Reviewer Signature: Allison Harvey

Total time spent on review: 24 hrs Date review completed: Jan 17, 2007

Copied by: A. C. Harvey Date: Jan 19, 2007

Mailed to user by: Laura Johnson Date: 22 Jan 07

DATA USER:

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

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

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

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

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

DATE: January 25, 2007

Indiana Dept of Environmental Management
Office of Environmental/Site Investigation Section
ATTN: Mark Jaworski
P.O. Box 6015
100 N. Senate Avenue
Indianapolis, IN 46206-6015

RECEIVED
FEB 01 2007
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

SITE NAME: Luster Street Groundwater Contamination (IN)

CASE #	LAB	SAMPLES	SDG	MATRIX
35998	KAP	20	E2P18	water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: December 28, 2006

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

for Steve Ostrodka
Richard L Byrne
1/22/07

TO: Data User: IDEM

We have reviewed the data for the following case:

Site Name: Lusher Street Groundwater Contamination (IN)

Case Number: 35998 SDG Number: E2P18

Number and Type of Samples: 20 water samples (Trace VOAs)

Sample Numbers: E2P18, E2P19, E2P21, E2P23, E2P24, E2P26, E2P27, E2P29, E2P35, E2P40, E2P41, E2P42, E2P43, E2P44, E2P45, E2P48, E2P51, E2P52, E2P53, E2P54

Laboratory: KAP Technologies Hrs for Review:

Following are our findings:

The data are usable and acceptable with the qualifications described in the attached narrative.
Richard L Byrne

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case: 35998
Site: Lusher Street Groundwater Contamination

SDG: E2P18
Laboratory: KAP Technologies

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

Twenty (20) water samples (E2P18, E2P19, E2P21, E2P23, E2P24, E2P26, E2P27, E2P29, E2P35, E2P40, E2P41, E2P42, E2P43, E2P44, E2P45, E2P48, E2P51, E2P52, E2P53 and E2P54) were collected on 12/05/2006 and 12/06/2006. The laboratory received the samples on 12/07/2006 in good condition. All samples were analyzed for the trace VOA analytes. All samples were analyzed according to CLP SOW SOM01.1. The data were reviewed according to USEPA CLP National Functional Guidelines for SOM01.1 and the ESAT Region 5 Organic Data Validation Criteria Matrix.

Sample E2P48 was used as the matrix spike/matrix spike duplicates for this sample delivery group.

None of the samples were identified as field duplicates, field blanks or trip blanks.

Reviewed by: Steffanie Tobin/ Techlaw, Inc. - ESAT
Date: January 19, 2007

Case: 35998 SDG: E2P18
Site: Lusher Street Groundwater Contamination Laboratory: KAP Technologies

1. HOLDING TIME

No defects found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No defects found.

3. CALIBRATION

The following trace volatile samples are associated with initial and continuing calibrations with a Relative Response Factor (RRF) less than 0.005. Detected results for these compounds were not reported in the samples and the non-detected results should be flagged "R".

1,4-Dioxane
E2P18, E2P19, E2P19DL, E2P21, E2P23, E2P24, E2P26, E2P27, E2P29, E2P35, E2P40, E2P41, E2P42, E2P43, E2P44, E2P45, E2P45DL, E2P48, E2P48MS, E2P48MSD, E2P51, E2P52, E2P52DL, E2P53, E2P53RE, E2P54, VBLK60, VBLKDP, VBLKDT, VBLKDV, VBLKEC, VBLKEE, VBLKEK, VHBLK01

The following trace volatile samples are associated with an initial calibration in which a compound exceeded percent relative standard deviation (%RSD) criteria of 30%. Detected results for these compounds were not reported in the samples and the non-detected results are qualified "UJ".

o-Xylene
E2P18, E2P19DL, E2P45DL, E2P48MS, E2P48MSD, E2P51, E2P52, E2P52DL, E2P54, VBLKDT, VBLKDV, VBLKEC, VBLKEE

The following trace volatile samples are associated with a continuing calibration in which a compound exceeded percent difference (%D) criteria of 30%. Detected results for these compounds were not reported in the samples and the non-detected results are qualified "UJ".

1,2,3-Trichlorobenzene
E2P52, VBLKEE

The following volatile samples are associated with a initial calibration and continuing calibration in which a DMC did not meet relative response factor (RRF) criteria. Detected and non-detected compounds are not qualified based on the RRF data of the DMC alone.

1,4-Dioxane-d_8
E2P18, E2P19, E2P19DL, E2P21, E2P23, E2P24, E2P26, E2P27, E2P29, E2P35, E2P40, E2P41, E2P42, E2P43, E2P44, E2P45, E2P45DL, E2P48, E2P48MS, E2P48MSD, E2P51, E2P52, E2P52DL, E2P53, E2P53RE, E2P54, VBLK60, VBLKDP, VBLKDT, VBLKDV, VBLKEC, VBLKEE, VBLKEK, VHBLK01

Case: 35998
Site: Lusher Street Groundwater Contamination

SDG: E2P18
Laboratory: KAP Technologies

4. BLANKS

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

Methylene chloride
E2P18, E2P43, E2P48

The following trace volatile samples have common contaminant analyte concentrations reported at or above the CRQL. The associated method blank is less than 2X the concentration criteria. Detected compounds greater than the CRQL but less than 10X the blank concentration are qualified "U" and reported at the sample value.

Methylene chloride
E2P42

The following trace volatile samples are associated with the method blank which had TIC concentrations greater than 2 μg/L. The sample results are less than 5X the blank concentration. Detected compounds are qualified "U" on Form I and deleted from the electronic file.

E2P18, E2P19DL, E2P21, E2P23, E2P24, E2P26, E2P27, E2P29, E2P35, E2P40, E2P41, E2P42, E2P43, E2P44, E2P45, E2P48, E2P51, E2P52, E2P52DL, E2P53, E2P53RE, E2P54, VHBLK01

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The follow trace volatile samples had DMC recoveries above the upper limit of the control limits. Detected compound for 1,1-Dichloroethene for E2P45 is qualified "J". Non-detected compounds are not qualified.

E2P35
Dichlorodifluoromethane, Chloromethane, Bromomethane, Chloroethane, Carbon Disulfide

E2P42, E2P45, E2P48
1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene

E2P43
Vinyl Chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene

Reviewed by: Steffanie Tobin/ Techlaw, Inc. - ESAT
Date: January 19, 2007

E2P53, E2P53RE
Dichlorodifluoromethane, Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, 1,1-Dichloroethene, Carbon Disulfide, trans-1,2-Dichloroethene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Bromochloromethane, Chloroform, Dibromochloromethane, Bromoform

The following low level volatile samples have one or more DMC recoveries below the primary lower limit but greater than twenty percent (20%). Detected compounds for 1,1-Dichloroethane and 1,1,1-Trichloroethane for E2P52 are qualified "J". Non-detected compounds are qualified "UJ".

E2P18, E2P19DL, E2P42, E2P43, E2P45, E2P45DL, E2P48MS, E2P48MSD, E2P51, E2P52DL, E2P53, E2P54
cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane

E2P52
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, Dibromochloromethane, 1,2-Dibromoethane, Bromoform

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No defects found.

7. LABORATORY CONTROL SAMPLE

Not applicable to these analyses.

8. FIELD BLANK AND FIELD DUPLICATE

None of the samples were identified as field duplicates, field blanks or trip blanks.

9. INTERNAL STANDARDS

No defects found.

10. COMPOUND IDENTIFICATION

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

11. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following trace volatile samples have compound concentrations less than the CRQL. Detected compounds are qualified "J".

E2P29
Acetone

E2P42
Trichloroethene, Toluene

E2P43
1,1-Dichloroethane, Tetrachloroethene

E2P48, E2P48MSD
Tetrachloroethene

VBLKDP, VBLKEE
Methylene chloride

VBLKDV
1,2,3-Trichlorobenzene

12. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

13. ADDITIONAL INFORMATION

The results of the following analytes exceeded the linear calibration range. The results were flagged "E" by the laboratory and should be considered estimated (J). The result from the dilutions should be used for result validation.

Trichloroethene
E2P19, E2P52

1,1,1-Trichloroethane
E2P45, E2P52

The results reported on Form Is and spreadsheet/superset did not match for the following samples. Raw data was used to calculate the correct results. Corrections were made on the Form Is by the reviewer.

E2P18, E2P48MS, E2P48MSD, E2P51, E2P52, E2P52DL, VBLKDV, VBLKEE

Raw data for sample E2P53RE (data file A.06685.D, pages 395-405) was labeled incorrectly as E2P54RE.

Reviewed by: Steffanie Tobin/ Techlaw, Inc. - ESAT
Date: January 19, 2007

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.

National Functional Guidelines Report # 9

10:09 Fri, Dec 29, 2006

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA Trace Sample=E2P18 Location=DW18 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.88	0.65		NJ

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P19 Location=DW26 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000541-05-9	Cyclotrisiloxane, hexamethyl-	11.07	0.54	UG/L	NJ
000098-56-6	Benzene, 1-chloro-4-(trifluoromethyl)-	13.37	2.1		NJ
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.19	0.61		NJ

National Functional Guidelines Report # 9

10:09 Fri, Dec 29, 2006

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P19DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P21 Location=DW27 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA Trace Sample=E2P23 Location=DW28 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P24 Location=DW35 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P26 Location=DW33 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA Trace Sample=E2P27 Location=DW44 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000078-87-5	Propane, 1,2-dichloro-	8.99	1.0	UG/L	NJ
000541-05-9	Cyclotrisiloxane, hexamethyl-	11.07	0.57		NJ
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.17	0.61		NJ

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P29 Location=DW45 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

10:09 Fri, Dec 29, 2006

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P35 Location=DW46 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

10:09 Fri, Dec 29, 2006

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P40 Location=DW36 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	6.79	0.76	UG/L	J
	Unknown-02	10.07	8.4		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P41 Location=DW37 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P42 Location=DW38 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P43 Location=DW39 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

10:09 Fri, Dec 29, 2006

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P44 Location=DW40 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000098-01-1	Furfural	15.16	3.5		NJ

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P45 Location=DW42 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

10:09 Fri, Dec 29, 2006

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P45DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.88	210	UG/L	DJ

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc). **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P48 Location=DW13 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P51 Location=DW41 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P52 Location=DW43 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-02	19.31	0.86		J

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P52DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA Trace Sample=E2P53 Location=DW23 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-02	15.87	0.56		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA Trace Sample=E2P53RE Location=No TR data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=E2P54 Location=DW14 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

10:09 Fri, Dec 29, 2006

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=VBLK60 Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.07	7.8	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=VBLKDP Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.87	9.5	UG/L	J
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.86	0.53		NJ

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=VBLKDT Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.88	11	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=VBLKDV Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.88	8.0	UG/L	J
	Unknown-02	15.48	3.2		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=VBLKEC Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.73	2.0	UG/L	J
	Unknown-02	10.88	12		J
	Unknown-03	15.48	1.4		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=VBLKEE Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.87	11	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=VBLKEK Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.89	11	UG/L	J

Lab KAP (KAP Technologies Inc) **SDG** E2P18 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33349

Tentatively identified Compounds

VOA_Trace Sample=VHBLK01 Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P18		E2P19		E2P19DL		E2P21		E2P23	
Sampling Location :	DW18		DW26		DW26		DW27		DW28	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/5/2006		12/5/2006				12/5/2006		12/6/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		5.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	25	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.50	U	19		0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
2-Butanone	5.0	U	47		25	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	2.4		2.5	U	2.5		0.73	
Cyclohexane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	100	R	20	R	20	R
Trichloroethene	13		63	J	45		0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	UJ	0.50	U	2.5	UJ	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	25	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	UJ	0.50	U	2.5	UJ	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 | SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P18		E2P19		E2P19DL		E2P21		E2P23	
Sampling Location :	DW18		DW26		DW26		DW27		DW28	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/5/2006		12/5/2006				12/5/2006		12/6/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		5.0		1.0		1.0	
Trace Volatile Compound	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*	*Result*	*Flag*
1,1,2-Trichloroethane	0.50	UJ	0.50	U	2.5	UJ	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	25	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
o-Xylene	0.50	UJ	0.50	U	2.5	UJ	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	2.5	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P24		E2P26		E2P27		E2P29		E2P35	
Sampling Location :	DW35		DW33		DW44		DW45		DW46	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/6/2006		12/6/2006		12/6/2006		12/6/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	1.7	J	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.66		0.56		0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	3.2		4.8		4.7		9.7	
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	20	R	20	R	20	R
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
eviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P24		E2P26		E2P27		E2P29		E2P35	
Sampling Location :	DW35		DW33		DW44		DW45		DW46	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/6/2006		12/6/2006		12/6/2006		12/6/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P40		E2P41		E2P42		E2P43		E2P44	
Sampling Location :	DW36		DW37		DW38		DW39		DW40	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/6/2006		12/6/2006		12/6/2006		12/6/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	1.2		3.4		1.5	
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.50	U	0.78	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.97		0.19	J	0.87	
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.71		3.7		5.6		7.8	
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	20	R	20	R	20	R
Trichloroethene	1.1		1.1		0.16	J	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	UJ	0.50	UJ	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.18	J	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	UJ	0.50	UJ	0.50	U

Analytical Results (Qualified Data)

Case #: 35998
SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P40		E2P41		E2P42		E2P43		E2P44	
Sampling Location :	DW36		DW37		DW38		DW39		DW40	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/6/2006		12/6/2006		12/6/2006		12/6/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	UJ	0.50	UJ	0.50	U
Tetrachloroethene	0.50	U	0.86		0.73		0.45	J	0.62	
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P45		E2P45DL		E2P48		E2P48MS		E2P48MSD	
Sampling Location :	DW42		DW42		DW13		DW13		DW13	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006				12/5/2006					
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		20.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	16	J	10	U	0.50	U	4.8		4.7	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	10	U	0.50	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	4.1		10	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	10	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	140	J	88		1.6		1.4		1.4	
Cyclohexane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	10	U	0.50	U	4.8		4.8	
1,2-Dichloroethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	20	R	400	R	20	R	20	R	20	R
Trichloroethene	0.50	U	10	U	0.50	U	4.0		3.9	
Methylcyclohexane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	UJ	10	UJ	0.50	U	0.50	UJ	0.50	UJ
4-Methyl-2-pentanone	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	10	U	0.50	U	5.2		5.1	
trans-1,3-Dichloropropene	0.50	UJ	10	UJ	0.50	U	0.50	UJ	0.50	UJ

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P45		E2P45DL		E2P48		E2P48MS		E2P48MSD	
Sampling Location :	DW42		DW42		DW13		DW13		DW13	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006				12/5/2006					
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		20.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	UJ	10	UJ	0.50	U	0.50	UJ	0.50	UJ
Tetrachloroethene	0.50	U	10	U	0.27	J	0.50	U	0.28	J
2-Hexanone	5.0	U	100	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	10	U	0.50	U	4.8		4.7	
Ethylbenzene	0.50	U	10	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	10	UJ	0.50	U	0.50	UJ	0.50	UJ
m,p-Xylene	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	10	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	10	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	10	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P51		E2P52		E2P52DL		E2P53		E2P53RE	
Sampling Location :	DW41		DW43		DW43		DW23		DW23	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/6/2006				12/5/2006			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		10.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	50	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
Methylene chloride	2.3		0.50	UJ	34		5.8		9.0	
trans-1,2-Dichloroethene	0.50	U	2.3		5.0	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
1,1-Dichloroethane	1.1		2.2	J	5.0	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	7.1		5.4		0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	50	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
1,1,1-Trichloroethane	4.7		39	J	27		0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	200	R	20	R	20	R
Trichloroethene	0.50	U	100	J	63		0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	UJ	0.50	U	5.0	UJ	0.50	UJ	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	50	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	UJ	0.50	U	5.0	UJ	0.50	UJ	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P51		E2P52		E2P52DL		E2P53		E2P53RE	
Sampling Location :	DW41		DW43		DW43		DW23		DW23	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/6/2006				12/5/2006			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		10.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	UJ	0.50	U	5.0	UJ	0.50	UJ	0.50	U
Tetrachloroethene	0.51		0.50	U	5.0	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	50	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
o-Xylene	0.50	UJ	0.50	UJ	5.0	UJ	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	5.0	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	UJ	5.0	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P54		VBLK60		VBLKDP		VBLKDT		VBLKDV	
Sampling Location :	DW14									
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/5/2006									
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2									
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	5.8		0.50	U	0.29	J	0.50	U	0.57	
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	20	R	20	R	20	R
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	E2P54		VBLK60		VBLKDP		VBLKDT		VBLKDV	
Sampling Location :	DW14									
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/5/2006									
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2									
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	UJ	0.50	U	0.50	U	0.50	UJ	0.50	UJ
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.38	J

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	VBLKEC		VBLKEE		VBLKEK		VHBLK01			
Sampling Location :										
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U		
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U		
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U		
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U		
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U		
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U		
Acetone	5.0	U	5.0	U	5.0	U	5.0	U		
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U		
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U		
Methylene chloride	0.50	U	0.4	J	0.50	U	0.50	U		
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U		
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U		
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U		
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U		
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U		
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U		
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U		
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U		
Benzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
1,4-Dioxane	20	R	20	R	20	R	20	R		
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U		
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U		
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U		
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U		
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U		
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U		
Toluene	0.50	U	0.50	U	0.50	U	0.50	U		
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U		

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P18
Site : LUSHER ST GROUNDWATER
Lab. : KAP Technologies
Reviewer : S. Tobin
Date : 01-19-2007

Number of Soil Samples : 0
Number of Water Samples : 20
Number of Sediment Samples : 0

Sample Number :	VBLKEC		VBLKEE		VBLKEK		VHBLK01			
Sampling Location :										
Matrix :	Water		Water		Water		Water			
Units :	ug/L		ug/L		ug/L		ug/L			
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A			
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0			
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U		
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U		
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U		
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U		
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U		
o-Xylene	0.50	UJ	0.50	UJ	0.50	U	0.50	U		
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U		
Styrene	0.50	U	0.50	U	0.50	U	0.50	U		
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U		
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U		
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U		
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U		
1,2,3-Trichlorobenzene	0.50	U	0.50	UJ	0.50	U	0.50	U		

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 28 Dec 06

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

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE NAME: Lusher Street Groundwater Contamination

CASE NUMBER: 35998 SDG NUMBER: E2P18

Number and Type of Samples: 20 water samples

Sample Numbers: E2P18-19; 21; 23-24; 26-27; 29; 35; 40-45; 48
51-54

Laboratory: KAP Technologies Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet

SDG Number E2P18

Laboratory Name Kap Technologies Inc Lab Code KAP

Contract No. EPW05032 Case No. 35998

Analysis Price _____ SDG Turnaround 21 Days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E2P18	7) E2P27	13) E2P43	19) E2P53
2) E2P19	8) E2P29	14) E2P44	20) E2P54
3) E2P21	9) E2P35	15) E2P45	21)
4) E2P23	10) E2P40	16) E2P48	22)
5) E2P24	11) E2P41	17) E2P51	23)
6) E2P26	12) E2P42	18) E2P52	24)

First Sample in SDG	Last Sample in SDG
E2P18	E2P54
First Sample Receipt Date Date	**Last Sample Receipt**
12/07/06	12/07/06

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

Signature _____ Date 12/11/06

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

Case No: 35998
DAS No:
SDG No: E2P18

L

Date Shipped:	12/6/2006
Carrier Name:	FedEx
Airbill:	811417053157
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	12-6-06 8:30 pm		
2			
3			
4		[signature]	12-7-06 935

Sampler Signature:

For Lab Use Only

Lab Contract No:	EPW05032
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
E2P10	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244727 (HCL) (1)	DW22	S: 12/5/2006 11:45		
E2P11	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244720 (HCL) (1)	DW16	S: 12/5/2006 13:00		
E2P12	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244721 (HCL) (1)	DW17	S: 12/5/2006 16:30		
E2P13	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244725 (HCL) (1)	DW20	S: 12/5/2006 15:30		
E2P14	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244723 (HCL) (1)	DW19	S: 12/5/2006 17:15		
E2P15	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244728 (HCL) (1)	DW25	S: 12/5/2006 12:25		
E2P16	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244724 (HCL) (1)	DW24	S: 12/6/2006 10:15		
E2P17	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244726 (HCL) (1)	DW21	S: 12/5/2006 11:30		
E2P18	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244722 (HCL) (1)	DW18	S: 12/5/2006 16:30	S-035.0,01	Firmex stay
E2P19	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244729 (HCL) (1)	DW26	S: 12/5/2006 13:45	↓ .02	

ORIGINAL
Case: 35998 SDG: E2P00
Episode: S-0349 Init/date: 12-7-06

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E2P48	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number: 185681, 185663
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

187 00006

TR Number: 5-342946689-120606-0002

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
Organic Traffic Report & Chain of Custody Record

Case No: 35998
DAS No:
SDG No: E2P18

L

Date Shipped:	12/6/2006
Carrier Name:	FedEx
Airbill:	811417053157
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	12-6-06 8:30 AM		
2			
3			
4		[signature]	12-7-06 935

Sampler Signature:

For Lab Use Only

Lab Contract No:	EPW05032
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
E2P21	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244730 (HCL) (1)	DW27	S: 12/5/2006 17:30	S-0350	.03
E2P48	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244714 (HCL), 5244715 (HCL), 5244716 (HCL) (3)	DW13	S: 12/5/2006 19:24		.16
E2P53	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244717 (HCL) (1)	DW23	S: 12/5/2006 19:00		.19
E2P54	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244718 (HCL) (1)	DW14	S: 12/5/2006 19:00		.20 Find ex SDG

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E2P48	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number: 185681, 185663
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

TR Number: 5-342946689-120606-0002

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

188 00005

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

Case No: 35998
DAS No:
SDG No: E2P18

L

Date Shipped:	12/6/2006
Carrier Name:	FedEx
Airbill:	811417053146
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [illegible]	12-6-06 8:30 AM		
2			
3			
4		J. [illegible]	12-7-06 435

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW05032
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
E2P23	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244731 (HCL) (1)	DW28	S: 12/6/2006	11:30	S-0350.04	
E2P24	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244732 (HCL) (1)	DW35	S: 12/6/2006	10:40	.05	
E2P26	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244741 (HCL) (1)	DW33	S: 12/6/2006	13:55	.06	
E2P49	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244733 (HCL), 5244734 (HCL), 5244735 (HCL) (3)	DW29	S: 12/5/2006	14:45		
E2P50	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244742 (HCL), 5244743 (HCL), 5244744 (HCL) (3)	DW34	S: 12/6/2006	13:05		
E2P55	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244737 (HCL) (1)	DW31	S: 12/5/2006	11:00		
E2P56	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244736 (HCL) (1)	DW30	S: 12/6/2006	10:00		
E2P57	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244719 (HCL) (1)	DW15	S: 12/5/2006	19:00		
E2P58	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244738 (HCL), 5244739 (HCL), 5244740 (HCL) (3)	DW32	S: 12/6/2006	15:45		

ORIGINAL
Case: 35998 SDG: E2P18
Episode: S-0350 Init/date: [illegible] 12-7-06

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E2P49, E2P50, E2P58	Additional Sampler Signature(s): [illegible]	Cooler Temperature Upon Receipt: 2°	Chain of Custody Seal Number: 185682, 185683
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

189 00007

TR Number: 5-342946689-120606-0003

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

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

Case No: 35998
DAS No:
SDG No: E2P18

L

Date Shipped:	12/6/2006
Carrier Name:	FedEx
Airbill:	811417053135
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	12-6-06/8:30pm		
2			
3		[signature]	12-7-06 435
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW05032
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
E2P27	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244753 (HCL) (1)	DW44	S: 12/6/2006 15:05	S-0350.07	
E2P29	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244754 (HCL) (1)	DW45	S: 12/6/2006 16:00	.08	
E2P35	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244755 (HCL) (1)	DW46	S: 12/6/2006 18:06	.09	
E2P40	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244745 (HCL) (1)	DW36	S: 12/6/2006 13:05	.10	
E2P41	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244746 (HCL) (1)	DW37	S: 12/6/2006 12:45	.11	
E2P42	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244747 (HCL) (1)	DW38	S: 12/6/2006 13:28	.12	
E2P43	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244748 (HCL) (1)	DW39	S: 12/6/2006 16:20	.13	
E2P44	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244749 (HCL) (1)	DW40	S: 12/6/2006 16:15	.14	
E2P45	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244751 (HCL) (1)	DW42	S: 12/6/2006 14:20	.15	
E2P51	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244750 (HCL) (1)	DW41	S: 12/6/2006 16:15	.17	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number:
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-342946689-120606-0004

LABORATORY COPY

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Send Copy to: Sample Management Office, Attn: Heather Batier, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4602

190 00008

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

Case No: 35998
DAS No:
SDG No: E2P18

L

Date Shipped:	12/6/2006
Carrier Name:	FedEx
Airbill:	811417053135
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	12-06-06/8:30AM		
2			
3			
4		[signature]	12-7-06 935

Sampler Signature:

For Lab Use Only

Lab Contract No:	EPW 05032
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
E2P52	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244752 (HCL) (1)	DW43	S: 12/6/2006 12:20	5-0350.18	

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number:
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? Y	Shipment Iced? Y

TR Number: 5-342946689-120606-0004

LABORATORY COPY

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

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

Contract No. EPW05032	Case No. 35998	SDG No. E2P18

SDG NARRATIVE

SAMPLE RECEIPT:

On 12/07/06 @ 09:35 A.M. - Received three coolers via FedEx with shipment numbers 811417053135, 811417053146 and 811417053157. The coolers temperatures were 2^0C, 2^0C and 2^0C.
The coolers contained the following samples for Trace-VOA analyses.
The custody seals and the samples were intact.

EPA SAMPLE ID	pH	EPA SAMPLE ID	pH
E2P18	<2	E2P41	<2
E2P19	<2	E2P42	<2
E2P21	<2	E2P43	<2
E2P23	<2	E2P44	<2
E2P24	<2	E2P45	<2
E2P26	<2	E2P48	<2
E2P27	<2	E2P51	<2
E2P29	<2	E2P52	<2
E2P35	<2	E2P53	<2
E2P40	<2	E2P54	<2
E2P19DL	<2	E2P45DL	<2
E2P52DL	<2	E2P53RE	<2

No problems were encountered during sample receiving and login.

TRACE VOLATILES:

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

A 25 mL purge volume was used for Trace-water sample analyses, blanks and calibration standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).

The water samples were analyzed for Trace Volatiles in according the SOM 1.1 statement of work.

KAP TECHNOLOGIES, INC.
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Contract No. EPW05032	Case No. 35998	SDG No. E2P18

SDG NARRATIVE

The sample E2P53 was failed in the surrogate recoveries and was reanalyzed. Upon reanalysis again failed due to sample matrix. Both the analyses were reported and are billable.

The samples E2P19, E2P45 and E2P52 had the target compound concentrations above the calibration range and were analyzed using the dilutions. The samples using the dilutions are also billable.

No other problems were encountered during the analysis of this sample.

Manual Integrations

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

E2P42 -Trichlorofluoromethane
VSTD0.5DD -Trichlorofluoromethane
VSTD0.5DD - Methyl Acetate
VSTD001DD – 1,1,2-Trichloro-1,2,2-trif
VSTD001DD – Methyl Acetate
VSTD005DD -Trichlorofluoromethane
VSTD005DD – Methyl Acetate
VSTD010DD -Trichlorofluoromethane
VSTD010DD – Methyl Acetate
VSTD020DD -Trichlorofluoromethane
VSTD020DD – Methyl Acetate
VSTD0.5DR -Trichlorofluoromethane
VSTD001DR -Trichlorofluoromethane
VSTD010DR –Trichlorofluoromethane
VSTD020DR - Dichlorodifluoromethane
VSTD020DR - Trichlorofluoromethane
VSTD005DR - Trichlorofluoromethane
VSTD005DR - Methyl Acetate
VSTD0.5EI – 2-Butanone-d5
VSTD0.5EI – Methyl Acetate
VSTD001EI -Trichlorofluoromethane
VSTD001EI –Carbon Disulfide
VSTD005EI – 2-Butanone
VSTD010EI -Trichlorofluoromethane
VSTD010EI – 1,2-Dichloroethane
VSTD020EI -Trichlorofluoromethane
VSTD005DP -Trichlorofluoromethane
VSTD005DP – 2-Butanone
VSTD005DQ -Trichlorofluoromethane
VSTD005DQ – Acetone
VSTD005DQ - Methyl Acetate
VSTD005DT –Trichlorofluoromethane

KAP TECHNOLOGIES, INC.
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Contract No. EPW05032	Case No. 35998	SDG No. E2P18

SDG NARRATIVE

VSTD005DT – 1,2-Dichloropropane
VSTD005DV –Trichlorofluoromethane
VSTD005EC –Trichlorofluoromethane
VSTD005ED –Trichlorofluoromethane
VSTD005EE – 2-Butanone-d5
VSTD005EE –Trichlorofluoromethane
VSTD005EF –Trichlorofluoromethane
VSTD005EF – Acetone
VSTD005EK –Trichlorofluoromethane
VSTD005EL –Trichlorofluoromethane

<u>The formula used to calculate the Sample concentration:</u>

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

Where,

A_x = Area of the characteristic ion (EICP) for the compound to be measured.
A_{is} = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.
RRF = Mean relative Response Factor from the initial calibration standard.
V_o = Total Volume of water purged, in ml.
DF = Dilution Factor.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature:

Signature/Title

12/27/02
Date of Signature

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLK60	91	102	75	89	86	87	88
02	E2P21	103	121	84	81	93	87	96
03	E2P23	97	110	79	93	89	91	89
04	E2P24	105	121	85	102	93	89	99
05	E2P26	99	113	79	97	89	95	86
06	E2P27	98	114	80	104	90	96	89
07	E2P29	102	123	83	100	91	95	89
08	E2P40	100	124	79	94	90	93	91
09	E2P41	101	120	80	106	91	96	89
10	E2P35	104	132 *	83	89	90	85	95
11	E2P19	89	113	70	79	79	78	87
12	VBLKDP	125	123	100	95	112	111	98
13	E2P42	127	127	105 *	104	117	116	102
14	E2P43	133 *	131	106 *	111	119	122	95
15	E2P44	130	126	103	115	117	122	98
16	E2P48	131	131	105 *	110	117	120	98
17	E2P53	137 *	134 *	108 *	109	124 *	124	97
18	E2P53RE	135 *	132 *	109 *	118	122 *	124	101
19	E2P45	123	126	167 *	112	111	109	95
20	VBLKDT	123	116	101	114	114	116	104
21	E2P19DL	88	87	72	87	83	88	97
22	E2P48MS	90	91	94	88	86	92	94
23	E2P51	109	112	89	114	107	114	94
24	E2P52DL	85	84	71	89	82	83	96
25	E2P54	111	104	89	100	102	104	94
26	VBLKDV	112	108	90	122	102	103	97
27	E2P18	83	84	70	78	80	80	96
28	E2P48MSD	92	88	94	91	86	92	93
29	VBLKEC	112	110	92	135	105	108	90
30	E2P45DL	124	124	102	108	118	123	96

	QC LIMITS
VDMC1 (VCL) = Vinyl Chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

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

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLK60	88	90	83	80	115	86	89	0
02	E2P21	92	98	96	72	94	88	96	0
03	E2P23	89	92	95	83	118	98	90	0
04	E2P24	94	101	82	91	126	91	96	0
05	E2P26	86	88	81	84	107	88	92	0
06	E2P27	90	91	86	92	113	96	93	0
07	E2P29	90	92	82	85	122	91	93	0
08	E2P40	90	94	81	82	107	89	96	0
09	E2P41	90	91	82	90	124	96	95	0
10	E2P35	91	97	76	78	94	82	90	1
11	E2P19	86	89	75	73	81	83	88	0
12	VBLKDP	97	94	93	84	101	109	99	0
13	E2P42	101	98	70 *	89	100	87	108	2
14	E2P43	97	92	65 *	90	95	90	109	3
15	E2P44	99	94	83	94	118	92	107	0
16	E2P48	98	95	78	92	116	98	102	1
17	E2P53	96	94	72 *	87	109	96	110	5
18	E2P53RE	102	97	79	99	88	101	113	4
19	E2P45	92	89	59 *	80	96	79	98	2
20	VBLKDT	102	113	76	110	117	89	122	0
21	E2P19DL	96	105	66 *	105	78	80	121	1
22	E2P48MS	94	101	66 *	101	78	80	126	1
23	E2P51	95	101	67 *	107	118	86	117	1
24	E2P52DL	95	104	62 *	109	79	81	123	1
25	E2P54	93	102	63 *	100	120	77	111	1
26	VBLKDV	95	104	88	119	108	92	112	0
27	E2P18	96	103	62 *	99	90	78	119	1
28	E2P48MSD	92	100	66 *	104	93	82	116	1
29	VBLKEC	88	94	74	114	108	87	106	0
30	E2P45DL	94	102	61 *	93	117	86	123	1

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

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

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLKEE	128	124	95	106	99	103	91
02	E2P52	91	80	63	73	70 *	73 *	97
03	VBLKEK	114	109	85	101	107	109	89
04	VHBLK01	120	118	91	106	114	115	93
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06								
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	QC LIMITS
VDMC1 (VCL) = Vinyl Chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

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

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLKEE	89	95	86	84	110	92	103	0
02	E2P52	95	100	78	81	59	94	120	2
03	VBLKEK	90	99	77	93	92	83	118	0
04	VHBLK01	94	103	78	103	91	84	127	0
05									
06									
07									
08									
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	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

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

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix Spike - EPA Sample No.: E2P48 Level: (TRACE/LOW) TRACE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	5	0	4.8	96	61-145
Trichloroethene	5	0	4.0	80	71-120
Benzene	5	0	4.8	96	76-127
Toluene	5	0	5.2	104	76-125
Chlorobenzene	5	0	4.8	96	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5	4.7	94	2	14	61-145
Trichloroethene	5	3.9	78	3	14	71-120
Benzene	5	4.8	96	0	11	76-127
Toluene	5	5.1	102	2	13	76-125
Chlorobenzene	5	4.7	94	2	13	75-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

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

COMMENTS: _____

_____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLK60

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Lab File ID: B07083 Lab Sample ID: VBLK60

Instrument ID: B-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/11/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1206

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P21	S-0350.03	B07084	1242
02	E2P23	S-0350.04	B07085	1317
03	E2P24	S-0350.05	B07086	1351
04	E2P26	S-0350.06	B07087	1426
05	E2P27	S-0350.07	B07088	1501
06	E2P29	S-0350.08	B07089	1534
07	E2P40	S-0350.10	B07090	1610
08	E2P41	S-0350.11	B07091	1644
09	E2P35	S-0350.09	B07092	1717
10	E2P19	S-0350.02	B07093	1752
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDP

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Lab File ID: A06676 Lab Sample ID: VBLKDP

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/13/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1143

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P42	S-0350.12	A06680	1402
02	E2P43	S-0350.13	A06681	1438
03	E2P44	S-0350.14	A06682	1513
04	E2P48	S-0350.16	A06683	1548
05	E2P53	S-0350.19	A06684	1701
06	E2P53RE	S-0350.19RE	A06685	1735
07	E2P45	S-0350.15	A06686	1810
08				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDT

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Lab File ID: A06708 Lab Sample ID: VBLKDT

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/14/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1839

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P19DL	S-0350.02DL	A06712	2112
02	E2P48MS	S-0350.16MS	A06713	2147
03	E2P51	S-0350.17	A06714	2220
04	E2P52DL	S-0350.18DL	A06715	2254
05	E2P54	S-0350.20	A06717	0004
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDV

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Lab File ID: A06728 Lab Sample ID: VBLKDV

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/15/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 0738

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P18	S-0350.01	A06735	1204
02	E2P48MSD	S-0350.16MSD	A06736	1240
03				
04				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKEC

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Lab File ID: A06797 Lab Sample ID: VBLKEC

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/17/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1436

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P45DL	S-0350.15DL	A06800	1653
02				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKEE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Lab File ID: A06808 Lab Sample ID: VBLKEE

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/18/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1345

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P52	S-0350.18	A06810	1610
02				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKEK

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Lab File ID: A06855 Lab Sample ID: VBLKEK

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/20/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1917

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLK01	S-0350.21	A06856	1954
02				
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COMMENTS: _____

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
E2P18

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06735

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/15/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.5 ~~0.35~~	~~J~~B M
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

ST 1-12-7

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

EPA SAMPLE NO.
E2P18

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06735

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/15/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	12 ~~15~~	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

5
1-19-07

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
E2P18

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.01

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06735

Level: (TRACE or LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/15/2006

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.89	7.8	~~J~~ U
02	000556-67-2	Cyclotetrasiloxane, octamethy	15.88	0.65	NJ
03					
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	E966796[1]	Total Alkanes	N/A	0	

ST 1-12-7

[1] EPA-designated Registry Number.

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\A-5973\A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 19 14:51:04 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 17:51:30 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	9.10	114	5488131	5.00 ug/L	0.00
30) Chlorobenzene-d5	13.70	117	5994934	5.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	17.80	152	2235462	5.00 ug/L	0.00

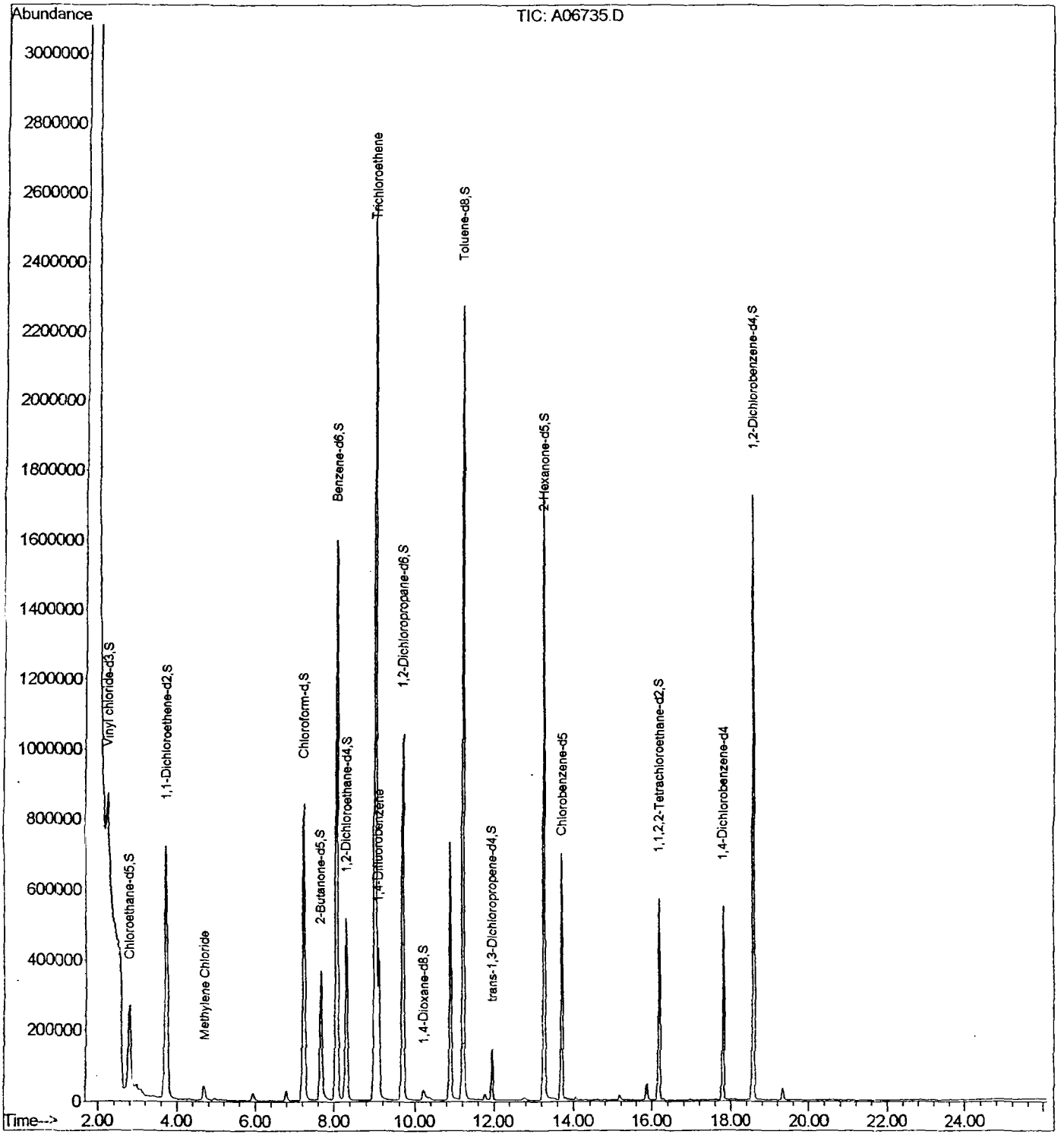
System Monitoring Compounds					
4) Vinyl chloride-d3	2.25	65	6893208	4.15 ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 83.00%		
7) Chloroethane-d5	2.78	69	5145359	4.21 ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 84.20%		
10) 1,1-Dichloroethene-d2	3.72	63	12193498	3.48 ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 69.60%		
21) 2-Butanone-d5	7.67	46	10328721	38.86 ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 77.72%		
24) Chloroform-d	7.23	84	12938469	3.99 ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 79.80%		
26) 1,2-Dichloroethane-d4	8.31	65	6665366	3.99 ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 79.80%		
28) 1,4-Dioxane-d8	10.21	96	554394	225.53 ug/L	0.00
Spiked Amount 250.000	Range 50 - 150		Recovery = 90.21%		
34) Benzene-d6	8.06	84	26797350	4.79 ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 95.80%		
38) 1,2-Dichloropropane-d6	9.69	67	7844725	4.79 ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 95.80%		
43) Toluene-d8	11.21	98	24066993	5.17 ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 103.40%		
45) trans-1,3-Dichloropropene-	11.95	79	1222344	3.08 ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 61.60%#		
49) 2-Hexanone-d5	13.25	63	7644988	49.50 ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 99.00%		
59) 1,1,2,2-Tetrachloroethane-	16.18	84	4479395	3.88 ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 77.60%		
65) 1,2-Dichlorobenzene-d4	18.57	152	7142080	5.97 ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 119.40%		

Target Compounds					Qvalue
16) Methylene Chloride	4.69	84	379776	0.27 ug/L #	73
36) Trichloroethene	9.01	95	14602697	13.23 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

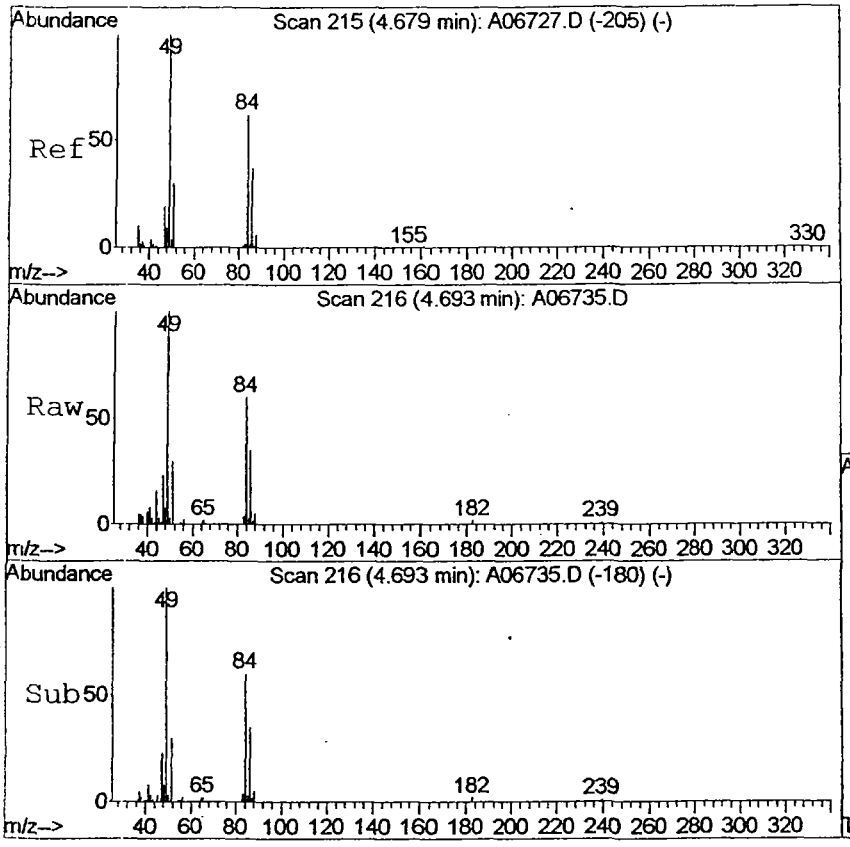
Data File: C:\MSDChem\1\A-5973\A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 19 14:51:04 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 17:51:30 2006
Response via : Initial Calibration



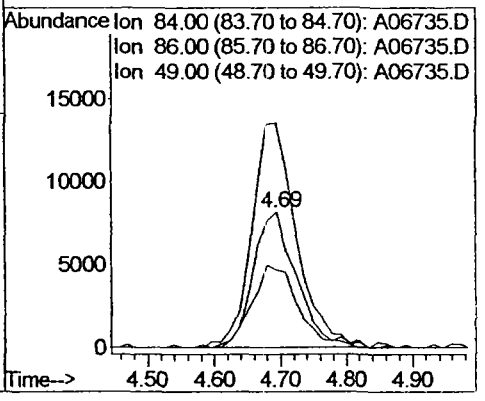
Data File : C:\MSDChem\1\A-5973\A06735.D
Acq On : 12/15/06 12:04
Sample : E2P18
Misc : S-0350.01 25ML
MS Integration Params: LSCINT.E

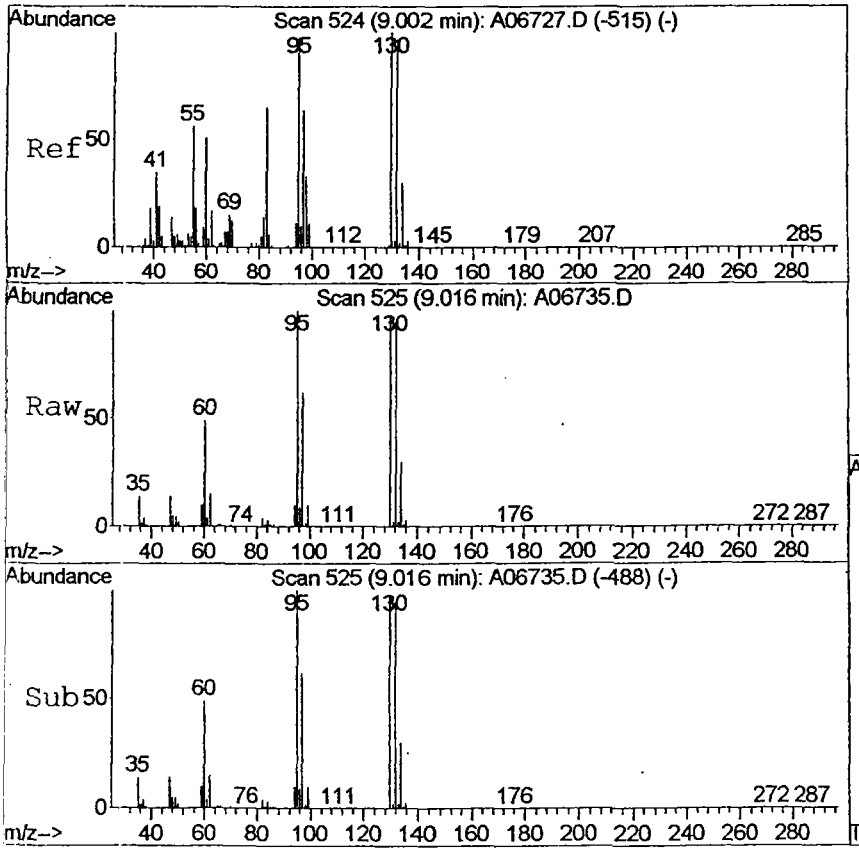
Vial: 9
Operator: SB
Inst : A-5973
Multiplr: 1.00



#16
Methylene Chloride
Concen: 0.27 ug/L
RT: 4.69 min Scan# 216
Delta R.T. 0.01 min
Integration Range:
Scan=208 to 227
R.T.= 4.58 to 4.85 (min)
Tgt Ion: 84 Resp: 379776

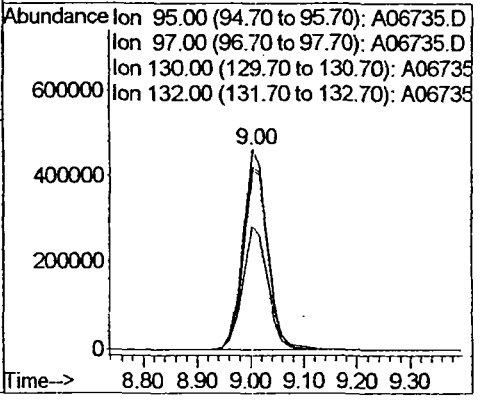
Ion	Ratio	Lower	Upper
84	100		
86	64.7	51.6	77.4
49	167.4	97.1	145.7#





#36
Trichloroethene
Concen: 13.23 ug/L
RT: 9.01 min Scan# 525
Delta R.T. 0.01 min
Integration Range:
Scan=517 to 541
R.T.= 8.90 to 9.24 (min)
Tgt Ion: 95 Resp:14602697

Ion	Ratio	Lower	Upper
95	100		
97	63.3	51.2	76.8
130	94.4	78.4	117.6
132	93.0	76.3	114.5



Data Path : C:\MSDChem\1\A-5973\
Data File : A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.244	36	41	71	BV 2	193826	21658224	26.20%	3.670%
2	2.776	71	79	90	PV	233353	11525707	13.94%	1.953%
3	2.972	90	93	99	VV 6	22051	1329651	1.61%	0.225%
4	3.098	99	102	110	VV 3	12215	607609	0.73%	0.103%
5	3.238	110	112	114	PV 2	2214	29575	0.04%	0.005%
6	3.280	114	115	121	VV 5	2006	54118	0.07%	0.009%
7	3.392	121	123	130	VV 6	2240	97716	0.12%	0.017%
8	3.518	130	132	134	PV 3	1710	30709	0.04%	0.005%
9	3.573	134	136	138	VV 3	4612	104120	0.13%	0.018%
10	3.713	138	146	169	VV	713040	33813833	40.90%	5.730%
1	4.077	169	172	173	PV 2	1447	25269	0.03%	0.004%
12	4.105	173	174	180	VV 5	2219	84455	0.10%	0.014%
13	4.217	180	182	187	VV 2	2949	78285	0.09%	0.013%
14	4.329	187	190	194	VV 3	3032	108813	0.13%	0.018%
15	4.399	194	195	202	VV 3	2614	80533	0.10%	0.014%
16	4.553	202	206	209	PV 3	1346	51933	0.06%	0.009%
17	4.693	209	216	227	VV	41325	2174637	2.63%	0.368%
18	4.861	227	228	230	VV 2	2518	38821	0.05%	0.007%
19	4.959	230	235	240	VV 5	6850	347891	0.42%	0.059%
20	5.043	240	241	243	VV	3196	57680	0.07%	0.010%
21	5.099	243	245	249	VV 4	3866	136899	0.17%	0.023%
22	5.169	249	250	252	VV 2	3243	74138	0.09%	0.013%
23	5.239	252	255	266	VV 3	1902	145421	0.18%	0.025%
24	5.420	266	268	272	VV 3	2328	80919	0.10%	0.014%
25	5.490	272	273	278	VV 3	1569	69242	0.08%	0.012%
26	5.616	278	282	284	VV 3	1743	47202	0.06%	0.008%
27	5.672	284	286	287	VV	2208	41505	0.05%	0.007%
28	5.728	287	290	295	VV	1658	61360	0.07%	0.010%
29	5.826	295	297	299	PV 3	1030	24732	0.03%	0.004%
30	5.938	299	305	314	VV	20987	996514	1.21%	0.169%
31	6.078	314	315	317	VV	1718	37733	0.05%	0.006%
2	6.120	317	318	320	VV 2	1710	28629	0.03%	0.005%
3	6.190	320	323	330	VV 3	915	81963	0.10%	0.014%
34	6.330	330	333	335	PV	1975	56211	0.07%	0.010%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

35	6.386	335	337	341	VV	2	2312	103859	0.13%	0.018%
36	6.470	341	343	347	VV	2	2138	83856	0.10%	0.014%
37	6.582	347	351	353	VV	2	1072	41135	0.05%	0.007%
38	6.652	353	356	359	VV	2	1910	58064	0.07%	0.010%
39	6.806	359	367	376	VV	3	28684	1205170	1.46%	0.204%
40	6.960	376	378	387	VV	3	1744	136298	0.16%	0.023%
41	7.099	387	388	390	VV		1693	42118	0.05%	0.007%
42	7.239	390	398	412	VV		821886	32808888	39.68%	5.559%
43	7.463	412	414	417	VV	2	4244	130267	0.16%	0.022%
44	7.533	417	419	421	VV	2	3186	100068	0.12%	0.017%
45	7.673	421	429	445	VV		360013	16257478	19.66%	2.755%
46	7.911	445	446	449	VV		6473	176351	0.21%	0.030%
47	8.065	449	457	468	VV		1603730	60034330	72.62%	10.173%
48	8.317	468	475	488	VV		509245	19276782	23.32%	3.266%
49	8.513	488	489	491	VV	2	3073	80810	0.10%	0.014%
50	8.611	491	496	499	VV	4	3292	173015	0.21%	0.029%
51	8.681	499	501	505	VV	3	3063	116865	0.14%	0.020%
52	8.764	505	507	511	VV	2	2394	80787	0.10%	0.014%
53	8.848	511	513	516	VV	2	2564	69769	0.08%	0.012%
54	9.016	516	525	529	VV		2543894	82674748	100.00%	14.009%
55	9.100	529	531	551	VV		419703	13830846	16.73%	2.344%
56	9.408	551	553	555	VV	2	3629	99957	0.12%	0.017%
57	9.464	555	557	558	VV	2	3051	67752	0.08%	0.011%
58	9.506	558	560	562	VV	3	3450	81561	0.10%	0.014%
59	9.688	562	573	585	VV		1043403	36783495	44.49%	6.233%
60	9.912	585	589	592	VV	4	5375	235146	0.28%	0.040%
61	9.996	592	595	599	VV	4	3870	179463	0.22%	0.030%
62	10.066	599	600	605	VV	3	2949	127277	0.15%	0.022%
63	10.206	605	610	620	VV	2	30633	1962167	2.37%	0.332%
64	10.374	620	622	631	VV	7	9722	574392	0.69%	0.097%
65	10.541	631	634	638	VV	2	3433	144044	0.17%	0.024%
66	10.653	638	642	646	VV	4	3188	162116	0.20%	0.027%
67	10.891	646	659	675	VV		713643	21473704	25.97%	3.639%
68	11.213	675	682	700	VV		2313045	68132915	82.41%	11.545%
69	11.479	700	701	707	VV	4	5072	212409	0.26%	0.036%
70	11.605	707	710	714	VV	4	3562	203664	0.25%	0.035%
71	11.703	714	717	718	VV	2	3592	101811	0.12%	0.017%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

72	11.787	718	723	730	VV		19147	867375	1.05%	0.147%
73	11.955	730	735	749	VV		149927	4811015	5.82%	0.815%
74	12.206	749	753	757	VV	4	4124	219941	0.27%	0.037%
75	12.290	757	759	761	VV	2	4337	108648	0.13%	0.018%
76	12.388	761	766	769	VV	3	2809	163122	0.20%	0.028%
77	12.486	769	773	775	VV	2	2669	119209	0.14%	0.020%
78	12.542	775	777	781	VV	3	2669	123819	0.15%	0.021%
79	12.640	781	784	785	VV	2	2654	85882	0.10%	0.015%
80	12.766	785	793	801	VV	5	7845	563375	0.68%	0.095%
81	12.976	801	808	813	VV	3	3358	199534	0.24%	0.034%
82	13.074	813	815	817	VV	2	2568	59831	0.07%	0.010%
83	13.130	817	819	821	VV	2	1947	46650	0.06%	0.008%
84	13.256	821	828	840	VV		1719150	45711572	55.29%	7.746%
85	13.438	840	841	854	VV	8	8738	678313	0.82%	0.115%
86	13.704	854	860	866	VV		673839	19077640	23.08%	3.233%
87	13.816	866	868	876	VV	5	7911	391324	0.47%	0.066%
88	13.941	876	877	883	VV	3	3716	155479	0.19%	0.026%
89	14.067	883	886	892	VV	5	7877	304441	0.37%	0.052%
90	14.193	892	895	900	VV	4	2916	131030	0.16%	0.022%
91	14.305	900	903	905	VV	2	3171	98320	0.12%	0.017%
92	14.361	905	907	910	VV	2	2299	65689	0.08%	0.011%
93	14.515	910	918	922	VV	4	2332	165927	0.20%	0.028%
94	14.599	922	924	927	VV	3	2215	66260	0.08%	0.011%
95	14.669	927	929	932	VV	2	2239	58516	0.07%	0.010%
96	14.781	932	937	944	VV	4	3409	174897	0.21%	0.030%
97	14.907	944	946	948	VV	2	1622	37422	0.05%	0.006%
98	14.977	948	951	955	VV	4	2084	81924	0.10%	0.014%
99	15.061	955	957	959	VV	2	2643	52076	0.06%	0.009%
100	15.173	959	965	974	VV	2	14589	628505	0.76%	0.106%
101	15.327	974	976	978	VV	2	2599	73068	0.09%	0.012%
102	15.397	978	981	985	VV	3	2529	93594	0.11%	0.016%
103	15.509	985	989	991	VV	3	2114	61539	0.07%	0.010%
104	15.564	991	993	997	VV	3	1666	63094	0.08%	0.011%
105	15.648	997	999	1007	VV	5	1545	94714	0.11%	0.016%
106	15.886	1007	1016	1024	VV		46488	1806883	2.19%	0.306%
107	16.026	1024	1026	1028	VV	2	1507	34127	0.04%	0.006%
[illegible]	16.180	1028	1037	1043	VV		555503	15576210	18.84%	2.639%
109	16.306	1043	1046	1053	VV	4	3350	168506	0.20%	0.029%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

110	16.460	1053	1057	1059	VV	2	2332	78147	0.09%	0.013%
111	16.516	1059	1061	1069	VV	3	2077	105257	0.13%	0.018%
112	16.656	1069	1071	1073	VV	2	1516	32065	0.04%	0.005%
113	16.726	1073	1076	1080	VV	2	1567	63494	0.08%	0.011%
114	16.810	1080	1082	1084	VV	3	2009	42486	0.05%	0.007%
115	16.852	1084	1085	1090	VV		1437	47621	0.06%	0.008%
116	16.964	1090	1093	1098	VV	3	4115	161687	0.20%	0.027%
117	17.048	1098	1099	1102	VV	2	1527	25966	0.03%	0.004%
118	17.132	1102	1105	1109	PV	4	2172	74905	0.09%	0.013%
119	17.216	1109	1111	1126	VV	4	2010	118769	0.14%	0.020%
120	17.495	1126	1131	1133	VV	2	1778	62446	0.08%	0.011%
121	17.551	1133	1135	1136	VV	2	1715	31966	0.04%	0.005%
122	17.621	1136	1140	1142	VV	3	2154	72401	0.09%	0.012%
123	17.677	1142	1144	1147	VV	2	1459	43590	0.05%	0.007%
124	17.803	1147	1153	1167	VV		517881	13938764	16.86%	2.362%
125	18.013	1167	1168	1172	VV	2	2668	85307	0.10%	0.014%
126	18.097	1172	1174	1176	VV	2	2531	65061	0.08%	0.011%
127	18.153	1176	1178	1180	VV	2	2608	51711	0.06%	0.009%
128	18.209	1180	1182	1183	VV	2	1691	34547	0.04%	0.006%
129	18.279	1183	1187	1192	VV	3	2075	103094	0.12%	0.017%
130	18.447	1192	1199	1202	VV	5	2102	115564	0.14%	0.020%
131	18.573	1202	1208	1217	VV		1621711	43748221	52.92%	7.413%
132	18.741	1217	1220	1226	VV	5	3545	225823	0.27%	0.038%
133	18.853	1226	1228	1231	VV	4	3101	84519	0.10%	0.014%
134	18.909	1231	1232	1234	VV	2	2107	45927	0.06%	0.008%
135	18.951	1234	1235	1237	VV		2644	54299	0.07%	0.009%
136	19.020	1237	1240	1242	VV	2	2841	80892	0.10%	0.014%
137	19.104	1242	1246	1258	VV	4	2337	246594	0.30%	0.042%
138	19.328	1258	1262	1267	VV		34312	1225342	1.48%	0.208%
139	19.426	1267	1269	1271	VV		2640	61370	0.07%	0.010%
140	19.482	1271	1273	1276	VV	2	2191	63063	0.08%	0.011%
141	19.552	1276	1278	1280	VV	2	2933	62495	0.08%	0.011%
142	19.608	1280	1282	1284	VV	2	2722	60051	0.07%	0.010%
143	19.664	1284	1286	1289	VV	2	2122	60215	0.07%	0.010%
144	19.720	1289	1290	1293	VV	2	2964	75962	0.09%	0.013%
145	19.804	1293	1296	1297	VV	2	2670	57589	0.07%	0.010%
146	19.846	1297	1299	1305	VV	3	2545	90468	0.11%	0.015%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

147	19.972	1305	1308	1310	VV	2	1250	37785	0.05%	0.006%
148	20.084	1310	1316	1318	VV	4	2728	102905	0.12%	0.017%
149	20.140	1318	1320	1322	VV	2	2235	67171	0.08%	0.011%
150	20.196	1322	1324	1328	VV	3	1808	69244	0.08%	0.012%
151	20.294	1328	1331	1335	VV	3	3592	105247	0.13%	0.018%
152	20.420	1335	1340	1342	VV	3	2256	91790	0.11%	0.016%
153	20.476	1342	1344	1345	VV	2	1394	27573	0.03%	0.005%
154	20.532	1345	1348	1354	VV	4	1957	112140	0.14%	0.019%
155	20.630	1354	1355	1358	VV	2	1924	52008	0.06%	0.009%
156	20.686	1358	1359	1362	VV	2	2044	53939	0.07%	0.009%
157	20.755	1362	1364	1365	VV	2	1392	30331	0.04%	0.005%
158	20.811	1365	1368	1371	VV	3	2209	84096	0.10%	0.014%
159	20.881	1371	1373	1376	VV	3	1411	44053	0.05%	0.007%
160	21.007	1376	1382	1383	PV	3	2308	82071	0.10%	0.014%
1	21.035	1383	1384	1392	VV	3	2553	96294	0.12%	0.016%
2	21.175	1392	1394	1401	VV	2	2048	74520	0.09%	0.013%
163	21.329	1401	1405	1407	VV	4	1965	58873	0.07%	0.010%
164	21.413	1407	1411	1423	VV	3	2153	177320	0.21%	0.030%
165	21.609	1423	1425	1427	VV	2	1489	30636	0.04%	0.005%
166	21.707	1427	1432	1436	VV	3	3159	128418	0.16%	0.022%
167	21.791	1436	1438	1441	VV	2	2005	54932	0.07%	0.009%
168	21.861	1441	1443	1445	VV	3	2288	46955	0.06%	0.008%
169	21.917	1445	1447	1448	VV	2	1104	22521	0.03%	0.004%
170	21.959	1448	1450	1452	VV	2	1609	32387	0.04%	0.005%
171	22.015	1452	1454	1455	VV		837	15757	0.02%	0.003%
172	22.071	1455	1458	1462	VV	2	1760	65889	0.08%	0.011%
173	22.183	1462	1466	1468	VV		1786	70024	0.08%	0.012%
174	22.267	1468	1472	1477	VV	4	1754	94161	0.11%	0.016%
175	22.365	1477	1479	1485	VV	3	3208	107796	0.13%	0.018%
176	22.476	1485	1487	1488	VV	2	1829	40698	0.05%	0.007%
177	22.532	1488	1491	1495	VV	3	1932	74308	0.09%	0.013%
178	22.602	1495	1496	1498	VV	2	1505	24905	0.03%	0.004%
179	22.700	1498	1503	1507	VV	5	2608	97204	0.12%	0.016%
180	22.882	1507	1516	1519	VV	5	2547	165247	0.20%	0.028%
181	22.952	1519	1521	1525	VV	3	2284	68471	0.08%	0.012%
2	23.064	1525	1529	1538	VV	3	1859	148022	0.18%	0.025%
3	23.232	1538	1541	1547	VV	4	2164	83260	0.10%	0.014%
184	23.414	1547	1554	1556	PV	5	2037	73065	0.09%	0.012%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

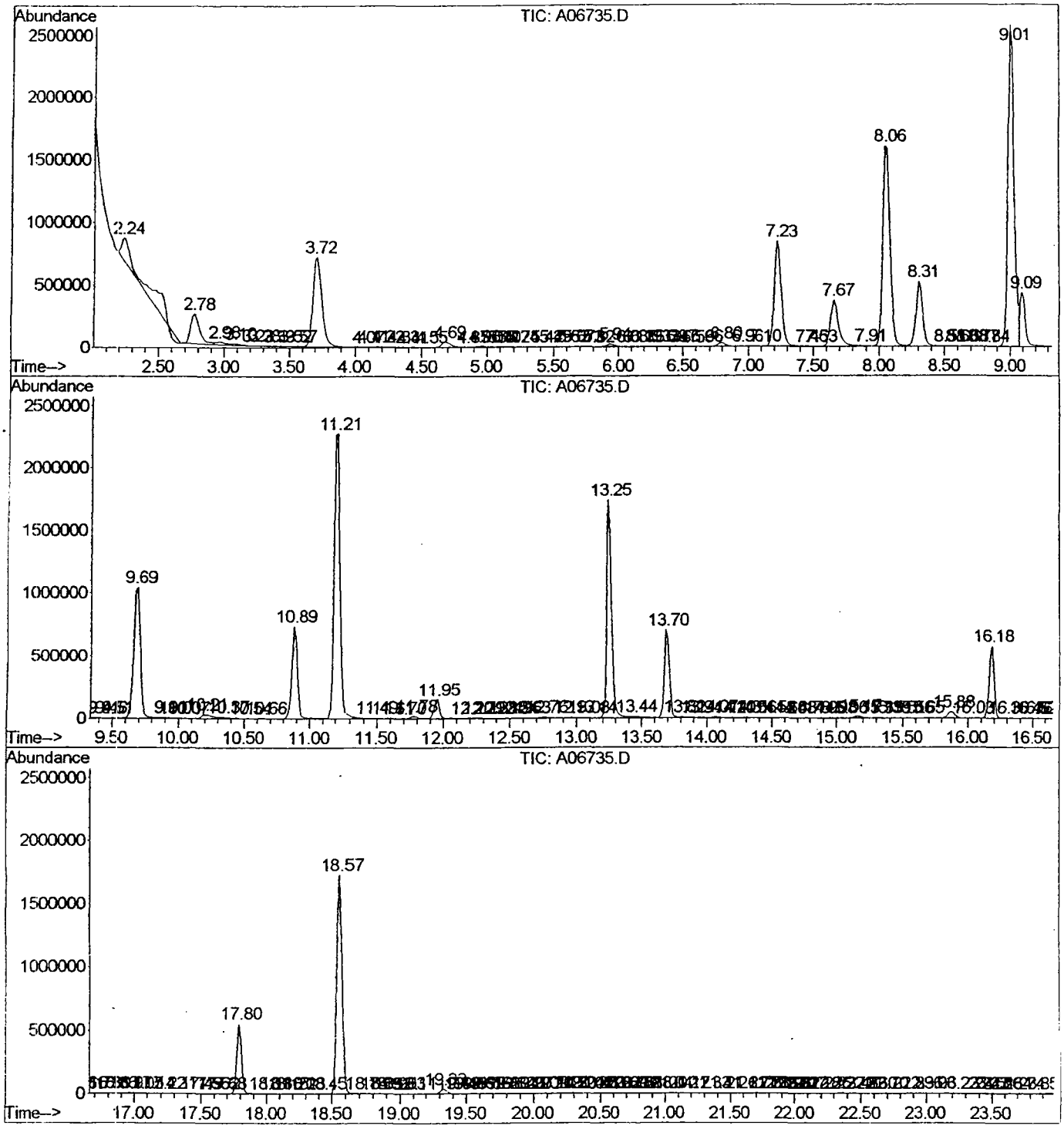
Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

185	23.470	1556	1558	1559	VV 2	2148	51245	0.06%	0.009%
186	23.512	1559	1561	1563	VV 3	3155	56656	0.07%	0.010%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDChem\1\A-5973\
Data File : A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

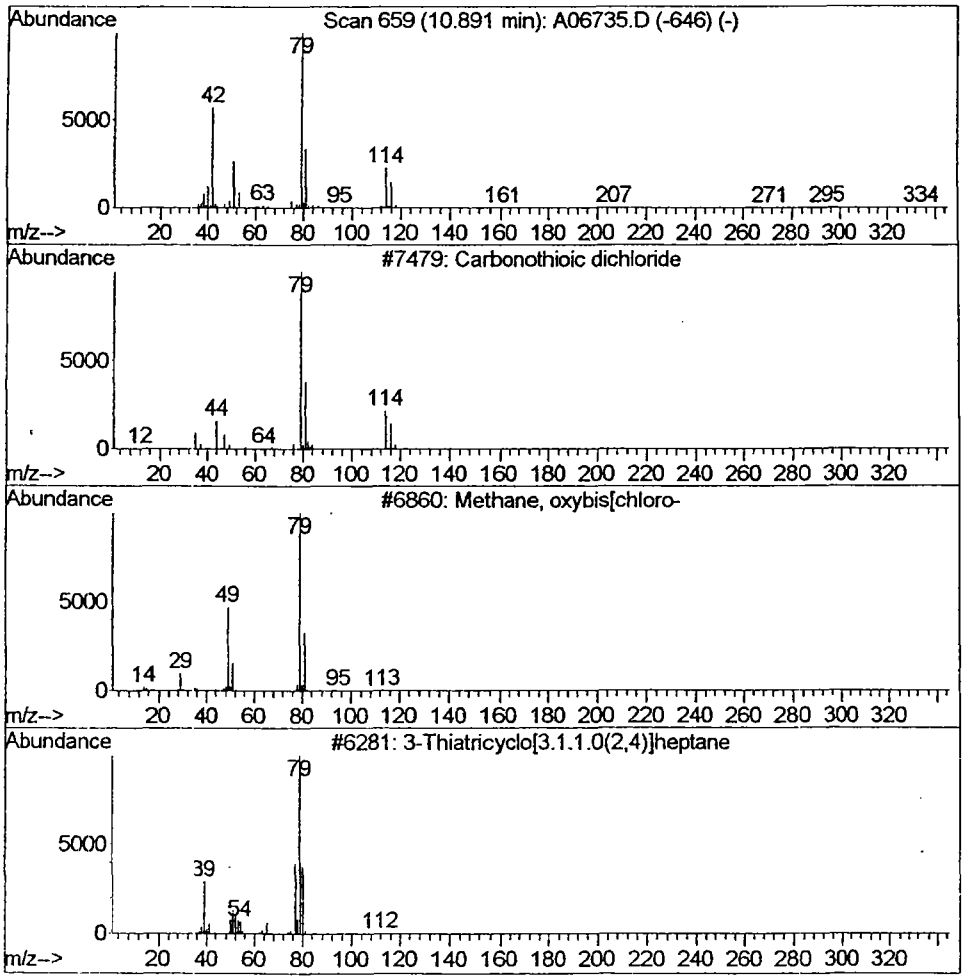
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

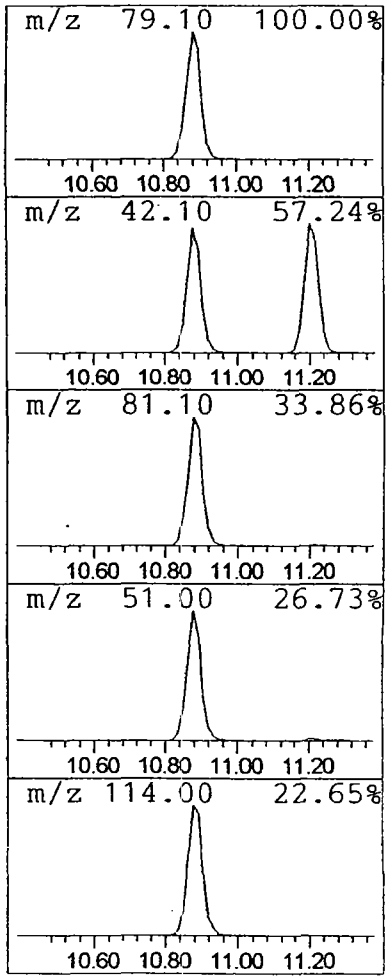
****

Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.89	7.76 ug/L	21473700	1,4-Difluorobenzene	9.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	47
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
3	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9
4	n-Propyl chloride	78	C3H7Cl	000540-54-5	9
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	9





Data Path : C:\MSDChem\1\A-5973\
Data File : A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

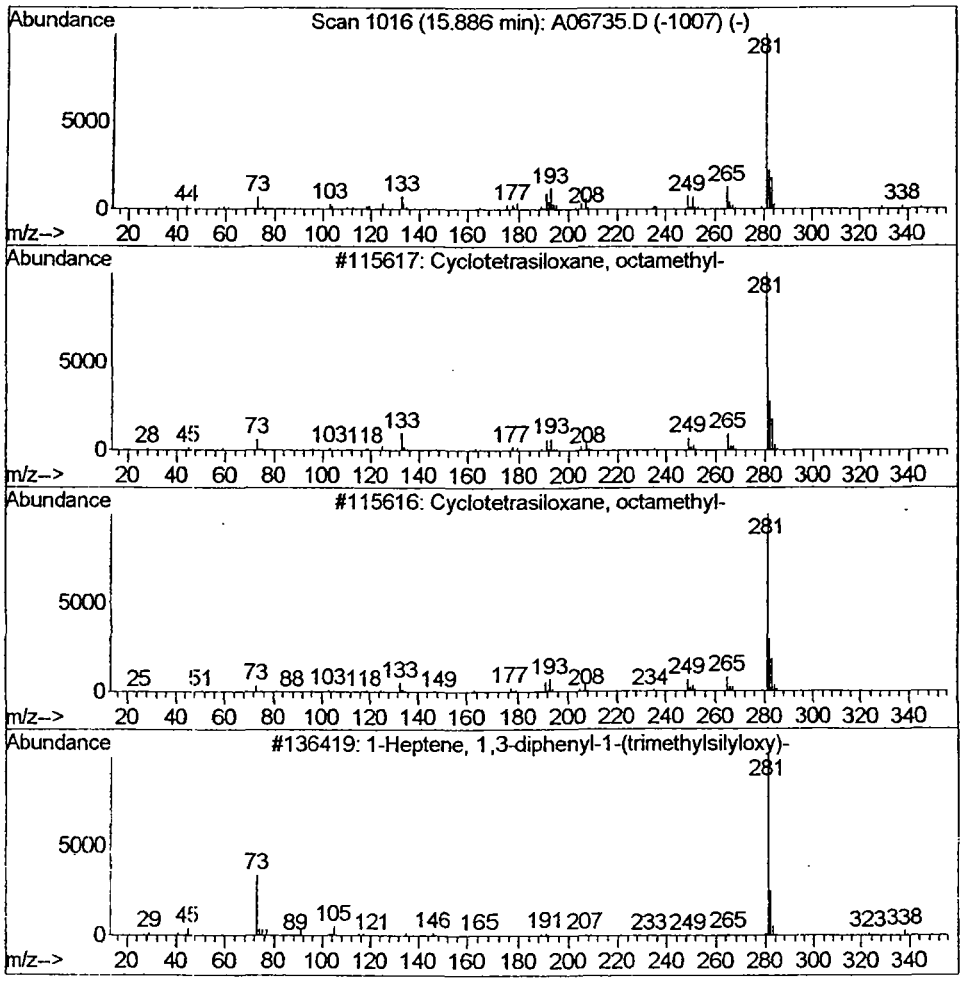
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

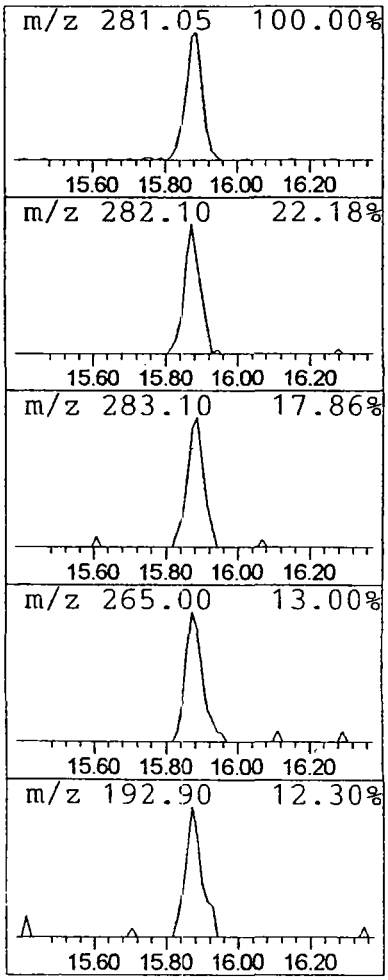
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 2 Cyclotetrasiloxane, octamet... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.88	0.65 ug/L	1806880	1,4-Dichlorobenzene-d4	17.80

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	87
2	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	74
3	1-Heptene, 1,3-diphenyl-1-(trime...	338	C22H30OSi	1000162-32-0	53
4	5H-Naphtho[2,3-c]carbazole, 5-me...	281	C21H15N	100025-44-3	53
5	5-(p-Aminophenyl)-4-(O-tolyl)-2-...	281	C16H15N3S	1000242-18-7	53





Tentatively Identified Compound (LSC) Summary

Data Path : C:\MSDChem\1\A-5973\
Data File : A06735.D
Acq On : 12/15/06 12:04 Operator: SB
Sample : E2P18 Inst : A-5973
Misc : S-0350.01 25ML
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Carbonothioic dic...	10.89	7.8	ug/L	21473700	1	9.10	13830800	5.0
Cyclotetrasiloxan...	15.88	0.6	ug/L	1806880	3	17.80	13938800	5.0

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

EPA SAMPLE NO.
E2P48MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.16MS

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06713

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	4.8 ~~5.4~~	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	1.4 ~~1.5~~	
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	4.8 ~~5.7~~	
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

ST
1-19-07

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
E2P48MS

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.16MS

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06713

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	4.0 ~~4.4~~	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.2 ~~5.6~~	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	4.8 ~~4.9~~	
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

SR 1-19-07

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\A-5973\A06713.D
Acq On : 12/14/06 21:47 Operator: SB
Sample : E2P48MS Inst : A-5973
Misc : S-0350.16MS 25ML
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 15 07:11:42 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 07:05:57 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	9.10	114	5469978	5.00 ug/L	0.00
30) Chlorobenzene-d5	13.70	117	6764398	5.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	17.80	152	2351468	5.00 ug/L	0.00

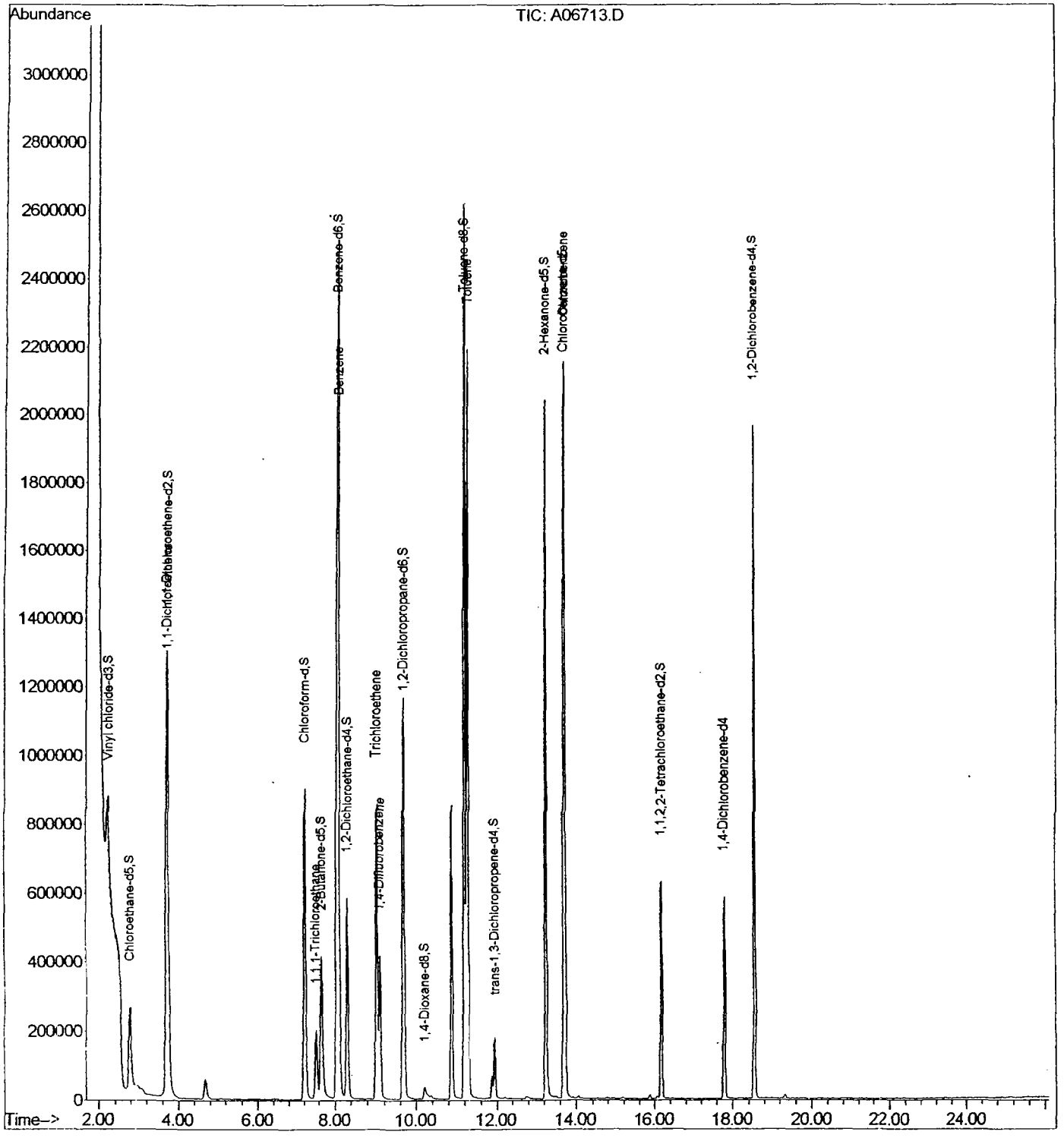
System Monitoring Compounds					
4) Vinyl chloride-d3	2.24	65	7469839	4.51 ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 90.20%		
7) Chloroethane-d5	2.78	69	5522436	4.53 ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 90.60%		
10) 1,1-Dichloroethene-d2	3.71	63	16415586	4.70 ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 94.00%		
21) 2-Butanone-d5	7.66	46	11591632	43.75 ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 87.50%		
24) Chloroform-d	7.23	84	13947421	4.31 ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 86.20%		
26) 1,2-Dichloroethane-d4	8.31	65	7681186	4.61 ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 92.20%		
28) 1,4-Dioxane-d8	10.21	96	479348	195.64 ug/L	0.00
Spiked Amount 250.000	Range 50 - 150		Recovery = 78.26%		
34) Benzene-d6	8.06	84	29757799	4.71 ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 94.20%		
38) 1,2-Dichloropropane-d6	9.68	67	8644756	4.68 ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 93.60%		
43) Toluene-d8	11.21	98	26579884	5.06 ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 101.20%		
45) trans-1,3-Dichloropropene-	11.95	79	1474532	3.29 ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 65.80%#		
49) 2-Hexanone-d5	13.25	63	8817917	50.60 ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 101.20%		
59) 1,1,2,2-Tetrachloroethane-	16.18	84	5214294	4.00 ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 80.00%		
65) 1,2-Dichlorobenzene-d4	18.56	152	7924867	6.30 ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 126.00%		

Target Compounds					Qvalue
11) 1,1-Dichloroethene	3.73	96	5192323	4.82 ug/L #	67
31) 1,1,1-Trichloroethane	7.53	97	2747291	1.38 ug/L #	92
35) Benzene	8.09	78	22580559	4.79 ug/L	100
36) Trichloroethene	9.01	95	4980942	4.00 ug/L	96
44) Toluene	11.29	91	24911903	5.17 ug/L	98
53) Chlorobenzene	13.72	112	15510731	4.80 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\MSDCHEM\1\A-5973\A06713.D
Acq On : 12/14/06 21:47 Operator: SB
Sample : E2P48MS Inst : A-5973
Misc : S-0350.16MS 25ML
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 15 07:11:42 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 07:05:57 2006
Response via : Initial Calibration



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

EPA SAMPLE NO.
E2P48MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.16MSD

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06736

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/15/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	4.7 ~~5.3~~	
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	1.4 ~~1.5~~	
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	4.8 ~~5.7~~	
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

1-19-07

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
E2P48MSD

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.16MSD

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06736

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/15/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	3.9 ~~4.4~~	
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	5.1 ~~5.6~~	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.28 ~~0.26~~	J
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	4.7 ~~4.9~~	
100-41-4	Ethylbenzene	~~0.50~~	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

ST 1-19-07

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\A-5973\A06736.D
Acq On : 12/15/06 12:40 Operator: SB
Sample : E2P48MSD Inst : A-5973
Misc : S-0350.16MSD 25ML
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 19 14:54:51 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 17:51:30 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	9.10	114	5359892	5.00 ug/L	0.00
30) Chlorobenzene-d5	13.70	117	6681853	5.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	17.80	152	2510172	5.00 ug/L	0.00

System Monitoring Compounds					
4) Vinyl chloride-d3	2.24	65	7422338	4.58 ug/L	-0.01
Spiked Amount 5.000	Range 65 - 131		Recovery = 91.60%		
7) Chloroethane-d5	2.77	69	5237026	4.38 ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 87.60%		
10) 1,1-Dichloroethene-d2	3.71	63	16016103	4.68 ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 93.60%		
21) 2-Butanone-d5	7.66	46	11771167	45.34 ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 90.68%		
24) Chloroform-d	7.23	84	13577860	4.29 ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 85.80%		
26) 1,2-Dichloroethane-d4	8.31	65	7488889	4.59 ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 91.80%		
28) 1,4-Dioxane-d8	10.20	96	559649	233.11 ug/L	0.00
Spiked Amount 250.000	Range 50 - 150		Recovery = 93.24%		
34) Benzene-d6	8.06	84	28999605	4.65 ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 93.00%		
38) 1,2-Dichloropropane-d6	9.68	67	8412028	4.61 ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 92.20%		
43) Toluene-d8	11.21	98	25825585	4.98 ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 99.60%		
45) trans-1,3-Dichloropropene-	11.95	79	1455926	3.29 ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 65.80%#		
49) 2-Hexanone-d5	13.25	63	8931019	51.88 ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 103.76%		
59) 1,1,2,2-Tetrachloroethane-	16.18	84	5288778	4.11 ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 82.20%		
65) 1,2-Dichlorobenzene-d4	18.57	152	7789089	5.80 ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 116.00%		

Target Compounds					Qvalue
11) 1,1-Dichloroethene	3.72	96	4993147	4.73 ug/L #	65
31) 1,1,1-Trichloroethane	7.53	97	2699827	1.37 ug/L #	93
35) Benzene	8.10	78	22410018	4.81 ug/L	100
36) Trichloroethene	9.01	95	4826764	3.92 ug/L	96
44) Toluene	11.29	91	24480575	5.14 ug/L	98
48) Tetrachloroethene	11.88	164	256209	0.28 ug/L	97
53) Chlorobenzene	13.73	112	15102219	4.73 ug/L	99

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\A-5973\A06736.D
Acq On : 12/15/06 12:40 Operator: SB
Sample : E2P48MSD Inst : A-5973
Misc : S-0350.16MSD 25ML
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 19 14:54:51 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 17:51:30 2006
Response via : Initial Calibration

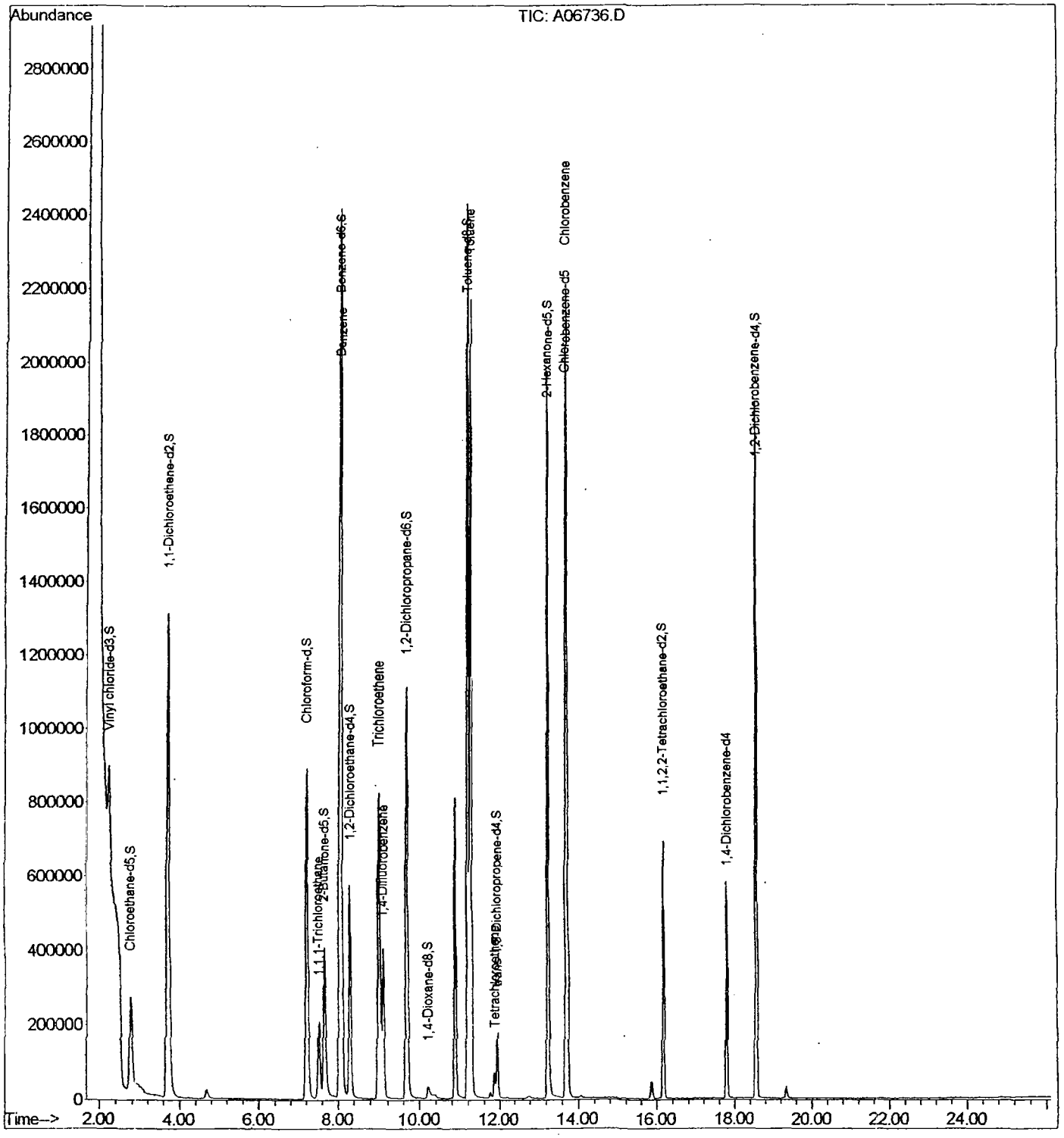
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\A-5973\A06736.D
Acq On : 12/15/06 12:40 Operator: SB
Sample : E2P48MSD Inst : A-5973
Misc : S-0350.16MSD 25ML
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 19 14:54:51 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 17:51:30 2006
Response via : Initial Calibration



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

EPA SAMPLE NO.
E2P51

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.17

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06714

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	2.3 ~~3.0~~	
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	1.1 ~~1.4~~	
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	4.7 ~~5.2~~	
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

ST 1-19-07

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
E2P51

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.17

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06714

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.51 ~~0.47~~	J
591-78-6	2-Hexanone	~~5.0~~	~~U~~
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

1-19-07

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
E2P51

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.17

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06714

Level: (TRACE or LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.88	10	~~J~~ U
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E9667961	Total Alkanes	N/A	0	

[1] EPA-designated Registry Number.

SR 1-12-7

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\A-5973\A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 15 08:12:26 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 07:55:13 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.10	114	4409576	5.00	ug/L	0.00
30) Chlorobenzene-d5	13.70	117	6611746	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	17.80	152	2568901	5.00	ug/L	0.00

System Monitoring Compounds						
4) Vinyl chloride-d3	2.23	65	7237899	5.43	ug/L	-0.01
Spiked Amount 5.000	Range 65 - 131		Recovery	=	108.60%	
7) Chloroethane-d5	2.77	69	5487387	5.58	ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery	=	111.60%	
10) 1,1-Dichloroethene-d2	3.70	63	12505649	4.44	ug/L	-0.01
Spiked Amount 5.000	Range 55 - 104		Recovery	=	88.80%	
21) 2-Butanone-d5	7.66	46	12146065	56.87	ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery	=	113.74%	
24) Chloroform-d	7.23	84	13888991	5.33	ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery	=	106.60%	
26) 1,2-Dichloroethane-d4	8.31	65	7685585	5.72	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery	=	114.40%	
28) 1,4-Dioxane-d8	10.20	96	581763	294.55	ug/L	0.00
Spiked Amount 250.000	Range 50 - 150		Recovery	=	117.82%	
34) Benzene-d6	8.06	84	29055895	4.71	ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery	=	94.20%	
38) 1,2-Dichloropropane-d6	9.68	67	8545094	4.73	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery	=	94.60%	
43) Toluene-d8	11.21	98	25888325	5.05	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery	=	101.00%	
45) trans-1,3-Dichloropropene-	11.95	79	1461907	3.34	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery	=	66.80%#	
49) 2-Hexanone-d5	13.25	63	9138195	53.65	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery	=	107.30%	
59) 1,1,2,2-Tetrachloroethane-	16.18	84	5449940	4.28	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery	=	85.60%	
65) 1,2-Dichlorobenzene-d4	18.57	152	8011080	5.83	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery	=	116.60%	

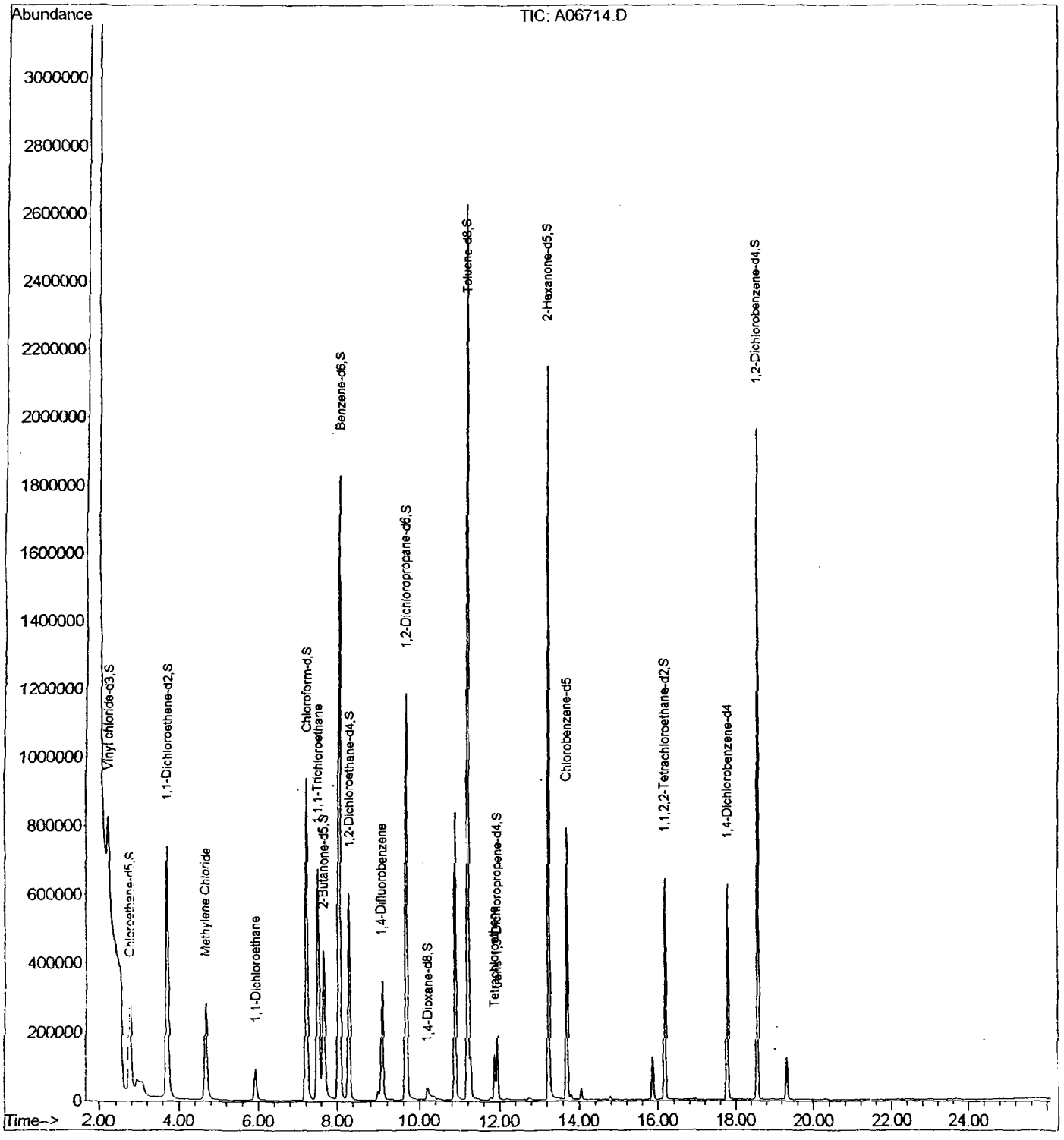
Target Compounds						Qvalue
16) Methylene Chloride	4.68	84	2584847	2.27	ug/L #	68
19) 1,1-Dichloroethane	5.94	63	1870242	1.13	ug/L	97
31) 1,1,1-Trichloroethane	7.52	97	9114048	4.68	ug/L #	92
48) Tetrachloroethene	11.87	164	466416	0.51	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

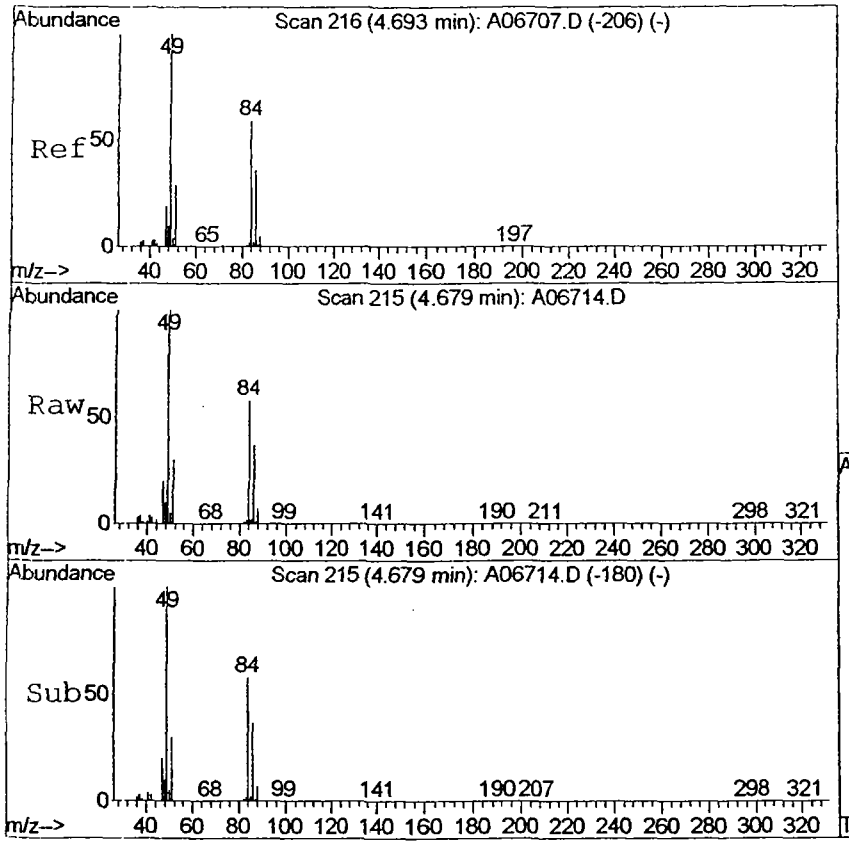
Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\A-5973\A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 15 08:12:26 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 07:55:13 2006
Response via : Initial Calibration

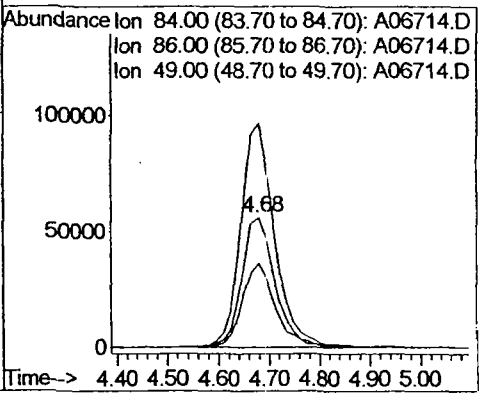


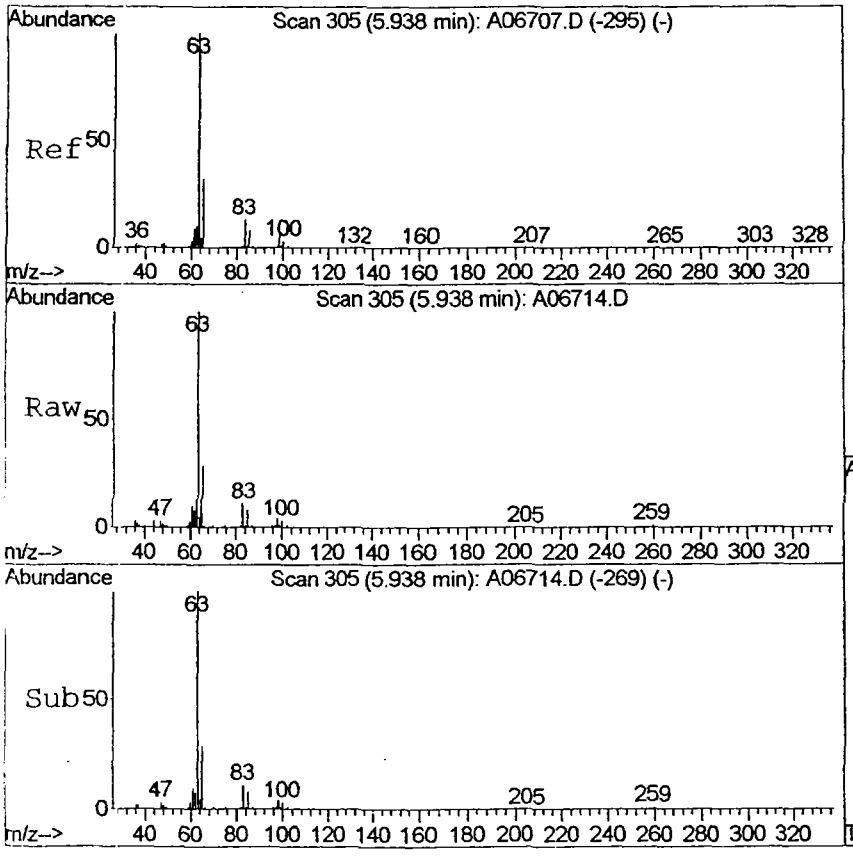
Data File : C:\MSDCHEM\1\A-5973\A06714.D Vial: 21
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#16
Methylene Chloride
Concen: 2.27 ug/L
RT: 4.68 min Scan# 215
Delta R.T. -0.01 min
Integration Range:
Scan=207 to 232
R.T.= 4.57 to 4.92 (min)
Tgt Ion: 84 Resp: 2584847

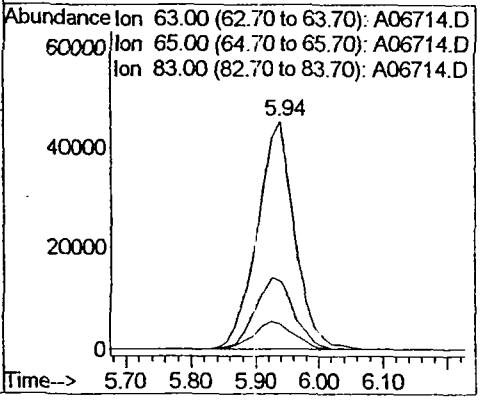
Ion	Ratio	Lower	Upper
84	100		
86	63.1	51.6	77.4
49	174.5	97.1	145.7#





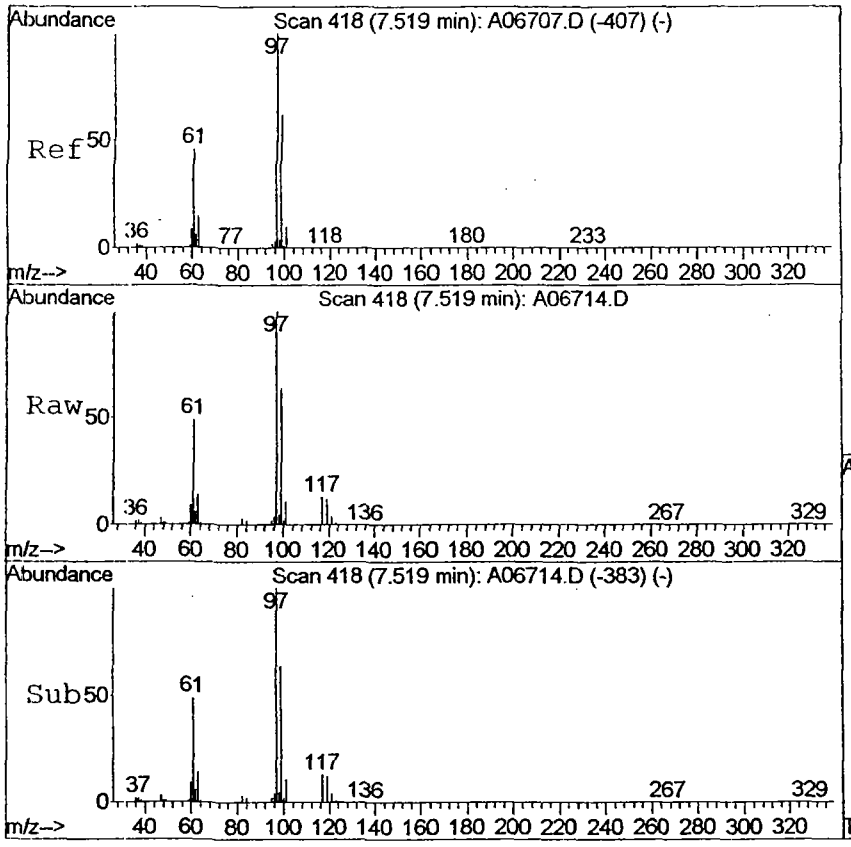
#19
1,1-Dichloroethane
Concen: 1.13 ug/L
RT: 5.94 min Scan# 305
Delta R.T. -0.00 min
Integration Range:
Scan=296 to 316
R.T.= 5.81 to 6.09 (min)
Tgt Ion: 63 Resp: 1870242

Ion	Ratio	Lower	Upper
63	100		
65	32.6	24.8	37.2
83	13.2	11.5	17.3



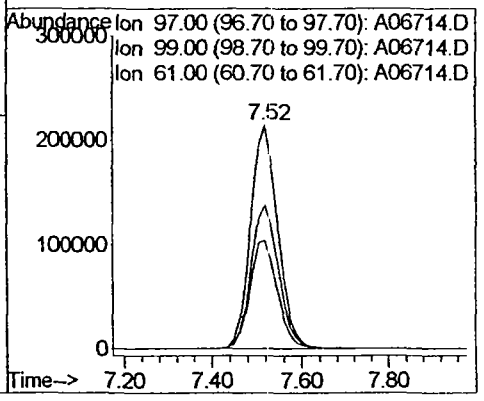
Data File : C:\MSDCHEM\1\A-5973\A06714.D
Acq On : 12/14/06 22:20
Sample : E2P51
Misc : S-0350.17 25ML
MS Integration Params: LSCINT.E

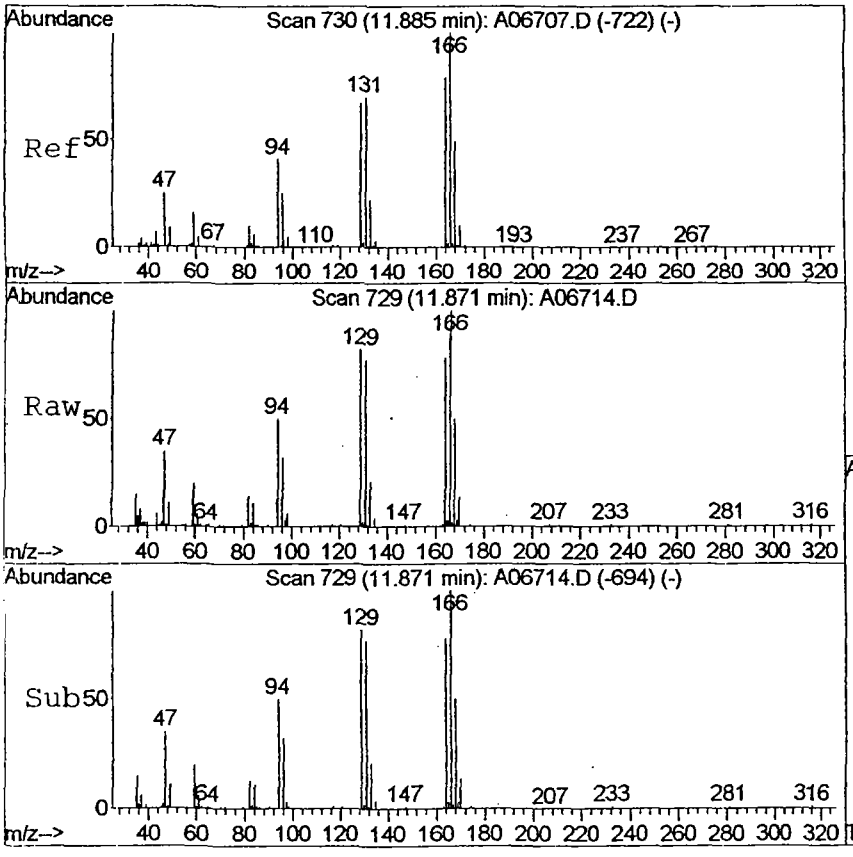
Vial: 21
Operator: SB
Inst : A-5973
Multiplr: 1.00



#31
1,1,1-Trichloroethane
Concen: 4.68 ug/L
RT: 7.52 min Scan# 418
Delta R.T. -0.00 min
Integration Range:
Scan=408 to 437
R.T.= 7.38 to 7.79 (min)
Tgt Ion: 97 Resp: 9114048

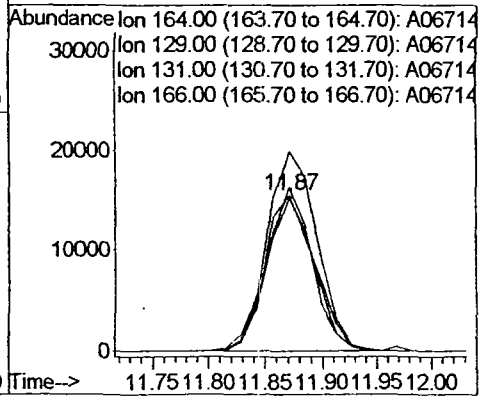
Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.0	76.6
61	49.2	30.8	46.2#





#48
Tetrachloroethene
Concen: 0.51 ug/L
RT: 11.87 min Scan# 729
Delta R.T. -0.01 min
Integration Range:
Scan=724 to 735
R.T.= 11.80 to 11.95 (min)
Tgt Ion:164 Resp: 466416

Ion	Ratio	Lower	Upper
164	100		
129	97.0	71.0	106.4
131	94.4	68.6	102.8
166	131.3	103.2	154.8



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
LS Vial : 21 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.762	72	78	88	BV	249678	12121750	15.99%	2.057%
2	2.958	88	92	110	VV 6	40989	4732166	6.24%	0.803%
3	3.238	110	112	119	PV 4	2581	45665	0.06%	0.008%
4	3.364	119	121	127	PV 4	3632	126483	0.17%	0.021%
5	3.490	127	130	132	VV 4	3124	94803	0.13%	0.016%
6	3.700	132	145	165	VV	719679	34362254	45.33%	5.832%
7	3.993	165	166	170	VV 3	2107	41994	0.06%	0.007%
8	4.105	170	174	176	PV 3	1485	39942	0.05%	0.007%
9	4.175	176	179	187	PV 5	2665	113489	0.15%	0.019%
10	4.329	187	190	193	VV 4	1541	57071	0.08%	0.010%
11	4.413	193	196	200	PV 2	2058	79609	0.11%	0.014%
12	4.483	200	201	204	VV	1390	25333	0.03%	0.004%
13	4.679	204	215	233	PV	274822	13186125	17.40%	2.238%
14	4.945	233	234	239	VV 3	2047	90934	0.12%	0.015%
15	5.043	239	241	243	VV 3	2236	57322	0.08%	0.010%
16	5.127	243	247	249	VV 3	3997	124310	0.16%	0.021%
17	5.183	249	251	255	VV 4	4837	186212	0.25%	0.032%
18	5.253	255	256	258	VV	3264	47917	0.06%	0.008%
19	5.337	258	262	263	VV	1349	41264	0.05%	0.007%
20	5.407	263	267	273	VV 3	2561	116384	0.15%	0.020%
21	5.518	273	275	284	VV 2	2522	118775	0.16%	0.020%
22	5.686	284	287	290	VV	2138	63344	0.08%	0.011%
23	5.742	290	291	293	VV 2	1391	28742	0.04%	0.005%
24	5.938	293	305	318	VV	94021	4375212	5.77%	0.743%
25	6.176	318	322	324	VV 3	2360	98773	0.13%	0.017%
26	6.218	324	325	328	VV 2	1928	41039	0.05%	0.007%
27	6.288	328	330	332	PV 2	2268	40968	0.05%	0.007%
28	6.414	332	339	341	PV 4	2777	107542	0.14%	0.018%
29	6.456	341	342	344	VV 2	2494	58100	0.08%	0.010%
30	6.498	344	345	348	VV 2	1769	41501	0.05%	0.007%
31	6.568	348	350	361	VV 3	1875	138454	0.18%	0.024%
32	6.848	361	370	375	VV 2	2449	152699	0.20%	0.026%
33	6.932	375	376	383	VV 4	2600	99332	0.13%	0.017%
34	7.086	383	387	389	VV 4	2553	82216	0.11%	0.014%

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

35	7.225	389	397	410	VV		924909	36015761	47.52%	6.113%
36	7.519	410	418	424	VV		661832	29050277	38.33%	4.931%
37	7.659	424	428	442	VV		432832	19646722	25.92%	3.335%
38	7.883	442	444	448	VV	2	8676	375564	0.50%	0.064%
39	8.051	448	456	467	VV		1779413	65098884	85.88%	11.050%
40	8.303	467	474	486	VV		584456	21998657	29.02%	3.734%
41	8.485	486	487	495	VV	4	4189	246882	0.33%	0.042%
42	8.653	495	499	502	VV	3	3466	132248	0.17%	0.022%
43	8.723	502	504	507	VV	2	3493	102111	0.13%	0.017%
44	8.779	507	508	514	VV	2	2495	111118	0.15%	0.019%
45	8.890	514	516	517	VV	2	1846	43763	0.06%	0.007%
46	9.002	517	524	526	VV	3	27994	950136	1.25%	0.161%
47	9.100	526	531	541	VV		337045	11406178	15.05%	1.936%
48	9.254	541	542	544	VV	2	3476	81001	0.11%	0.014%
49	9.338	544	548	554	VV	4	2789	176404	0.23%	0.030%
50	9.436	554	555	560	VV	2	2199	87742	0.12%	0.015%
51	9.520	560	561	563	VV	2	1790	36114	0.05%	0.006%
52	9.688	563	573	592	VV		1138459	39874150	52.61%	6.768%
53	9.982	592	594	596	VV	3	2719	75835	0.10%	0.013%
54	10.038	596	598	604	VV		3023	134846	0.18%	0.023%
55	10.206	604	610	626	VV	2	35894	2504132	3.30%	0.425%
56	10.458	626	628	630	VV	2	4970	127422	0.17%	0.022%
57	10.528	630	633	637	VV	4	2629	110902	0.15%	0.019%
58	10.611	637	639	641	VV	2	1817	49695	0.07%	0.008%
59	10.653	641	642	644	VV	2	1882	44814	0.06%	0.008%
60	10.709	644	646	650	VV	2	2323	60029	0.08%	0.010%
61	10.877	650	658	671	VV		797698	23913557	31.55%	4.059%
62	11.087	671	673	675	VV	2	5028	142117	0.19%	0.024%
63	11.213	675	682	699	VV		2479450	75798001	100.00%	12.866%
64	11.479	699	701	704	VV	3	5901	196462	0.26%	0.033%
65	11.535	704	705	708	VV	2	5121	128558	0.17%	0.022%
66	11.619	708	711	712	VV	3	2902	85107	0.11%	0.014%
67	11.675	712	715	716	VV	2	3669	92427	0.12%	0.016%
68	11.787	716	723	725	VV	3	11809	466281	0.62%	0.079%
69	11.871	725	729	732	VV		130764	3889034	5.13%	0.660%
70	11.955	732	735	741	VV		186685	5503546	7.26%	0.934%
71	12.053	741	742	747	VV	3	5399	224661	0.30%	0.038%

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

72	12.207	747	753	762	VV	6	7055	500443	0.66%	0.085%
73	12.360	762	764	767	VV	2	2669	91047	0.12%	0.015%
74	12.416	767	768	770	VV	2	2766	62072	0.08%	0.011%
75	12.472	770	772	774	VV	2	2987	60140	0.08%	0.010%
76	12.514	774	775	777	VV	2	3397	63584	0.08%	0.011%
77	12.612	777	782	783	VV	4	2373	95105	0.13%	0.016%
78	12.668	783	786	787	VV	2	2880	82782	0.11%	0.014%
79	12.752	787	792	800	VV	4	8889	545015	0.72%	0.093%
80	12.892	800	802	807	VV	2	2171	82882	0.11%	0.014%
81	13.018	807	811	816	VV	2	1867	122277	0.16%	0.021%
82	13.116	816	818	820	VV	3	2783	62879	0.08%	0.011%
83	13.256	820	828	841	VV		2024132	54035324	71.29%	9.172%
84	13.480	841	844	850	VV	6	7381	463489	0.61%	0.079%
85	13.578	850	851	853	VV		4520	98508	0.13%	0.017%
[illegible]	13.690	853	859	865	VV		758597	21079231	27.81%	3.578%
[illegible]	13.802	865	867	872	VV		17964	601003	0.79%	0.102%
88	13.942	872	877	880	VV	4	3781	200243	0.26%	0.034%
89	14.067	880	886	898	VV		34397	1209999	1.60%	0.205%
90	14.305	898	903	906	VV	4	2463	135540	0.18%	0.023%
91	14.417	906	911	916	VV	4	2457	137869	0.18%	0.023%
92	14.501	916	917	920	VV		2116	41296	0.05%	0.007%
93	14.599	920	924	926	VV	2	2311	72751	0.10%	0.012%
94	14.655	926	928	932	VV	3	2302	74242	0.10%	0.013%
95	14.781	932	937	940	VV	4	10506	364947	0.48%	0.062%
96	14.851	940	942	947	VV	2	1621	66007	0.09%	0.011%
97	14.949	947	949	951	VV	3	2417	53026	0.07%	0.009%
98	15.173	951	965	970	VV	6	3528	283790	0.37%	0.048%
99	15.341	970	977	980	VV	2	2457	101447	0.13%	0.017%
100	15.425	980	983	985	VV	3	1944	51243	0.07%	0.009%
101	15.481	985	987	991	VV	3	2537	82333	0.11%	0.014%
102	15.551	991	992	998	VV	2	2343	74000	0.10%	0.013%
103	15.663	998	1000	1004	VV	5	1229	41233	0.05%	0.007%
104	15.886	1004	1016	1023	VV		122808	4274515	5.64%	0.726%
105	16.012	1023	1025	1027	VV	3	2369	47293	0.06%	0.008%
106	16.068	1027	1029	1031	VV	3	4112	116908	0.15%	0.020%
[illegible]	16.180	1031	1037	1049	VV		639253	18469260	24.37%	3.135%
[illegible]	16.376	1049	1051	1052	VV	2	3147	53313	0.07%	0.009%
109	16.446	1052	1056	1059	VV	3	2897	108359	0.14%	0.018%

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

110	16.516	1059	1061	1064	VV		2019	54408	0.07%	0.009%
111	16.600	1064	1067	1069	VV	4	1567	36757	0.05%	0.006%
112	16.698	1069	1074	1076	VV		2650	83203	0.11%	0.014%
113	16.824	1076	1083	1084	VV	4	2933	94062	0.12%	0.016%
114	16.880	1084	1087	1089	VV	3	1861	58928	0.08%	0.010%
115	16.964	1089	1093	1097	VV	4	4217	154817	0.20%	0.026%
116	17.118	1097	1104	1111	VV	3	2677	146722	0.19%	0.025%
117	17.244	1111	1113	1115	VV	2	1091	26617	0.04%	0.005%
118	17.300	1115	1117	1122	VV	3	1759	80178	0.11%	0.014%
119	17.398	1122	1124	1127	VV	2	1674	37573	0.05%	0.006%
120	17.495	1127	1131	1133	VV	3	1902	53559	0.07%	0.009%
121	17.537	1133	1134	1136	VV	2	1838	31013	0.04%	0.005%
122	17.593	1136	1138	1140	VV	2	1730	45091	0.06%	0.008%
123	17.649	1140	1142	1147	VV	3	1871	49503	0.07%	0.008%
4	17.789	1147	1152	1159	PV		596969	15717404	20.74%	2.668%
5	17.901	1159	1160	1164	VV	3	3940	106188	0.14%	0.018%
126	17.999	1164	1167	1168	VV	3	2496	57895	0.08%	0.010%
127	18.055	1168	1171	1175	VV	2	2437	87150	0.11%	0.015%
128	18.139	1175	1177	1179	VV		2856	64137	0.08%	0.011%
129	18.195	1179	1181	1184	VV	2	2343	59815	0.08%	0.010%
130	18.307	1184	1189	1191	VV	3	2402	80167	0.11%	0.014%
131	18.363	1191	1193	1198	VV	3	1915	71792	0.09%	0.012%
132	18.559	1198	1207	1214	VV		1868977	49310588	65.06%	8.370%
133	18.713	1214	1218	1221	VV	4	5072	173470	0.23%	0.029%
134	18.811	1221	1225	1229	VV	4	2576	144788	0.19%	0.025%
135	18.923	1229	1233	1234	VV	3	3412	108573	0.14%	0.018%
136	18.965	1234	1236	1243	VV	5	2961	160281	0.21%	0.027%
137	19.133	1243	1248	1250	VV	3	2123	74610	0.10%	0.013%
138	19.188	1250	1252	1253	VV	2	2274	48267	0.06%	0.008%
139	19.342	1253	1263	1276	VV		120100	4184755	5.52%	0.710%
140	19.608	1276	1282	1290	VV	4	3541	264700	0.35%	0.045%
141	19.748	1290	1292	1294	VV	2	2204	52059	0.07%	0.009%
142	19.804	1294	1296	1301	VV	4	2621	133957	0.18%	0.023%
143	19.902	1301	1303	1306	VV	2	2011	44090	0.06%	0.007%
144	19.972	1306	1308	1311	PV	3	2398	57415	0.08%	0.010%
5	20.084	1311	1316	1318	VV	2	2162	78066	0.10%	0.013%
146	20.140	1318	1320	1328	VV	3	2713	147304	0.19%	0.025%

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

147	20.294	1328	1331	1333	VV	3	5598	140695	0.19%	0.024%
148	20.350	1333	1335	1336	VV	2	3739	65417	0.09%	0.011%
149	20.392	1336	1338	1341	VV	2	1894	52015	0.07%	0.009%
150	20.448	1341	1342	1344	VV		1516	24805	0.03%	0.004%
151	20.504	1344	1346	1349	VV	4	2470	61298	0.08%	0.010%
152	20.574	1349	1351	1352	VV		2137	39918	0.05%	0.007%
153	20.658	1352	1357	1361	VV	4	2061	110605	0.15%	0.019%
154	20.798	1361	1367	1371	VV	4	2067	110167	0.15%	0.019%
155	20.881	1371	1373	1375	VV	2	1485	31009	0.04%	0.005%
156	20.937	1375	1377	1392	VV	5	2081	157992	0.21%	0.027%
157	21.175	1392	1394	1398	VV	3	1326	47255	0.06%	0.008%
158	21.245	1398	1399	1401	VV	2	1553	26510	0.03%	0.004%
159	21.427	1401	1412	1417	VV	5	2601	158582	0.21%	0.027%
160	21.539	1417	1420	1423	VV	2	943	35262	0.05%	0.006%
[illegible]1	21.609	1423	1425	1429	VV		1856	55432	0.07%	0.009%
[illegible]2	21.707	1429	1432	1433	VV	2	1887	39875	0.05%	0.007%
163	21.735	1433	1434	1436	VV	2	2586	42177	0.06%	0.007%
164	21.791	1436	1438	1440	VV	2	1196	23550	0.03%	0.004%
165	21.847	1440	1442	1444	VV		2078	46643	0.06%	0.008%
166	21.903	1444	1446	1449	VV		1272	26161	0.03%	0.004%
167	22.001	1449	1453	1456	VV	3	2250	64035	0.08%	0.011%
168	22.085	1456	1459	1461	VV		1969	58301	0.08%	0.010%
169	22.169	1461	1465	1476	VV	5	1830	135505	0.18%	0.023%
170	22.379	1476	1480	1482	VV	2	2534	82169	0.11%	0.014%
171	22.463	1482	1486	1489	VV	2	2219	67011	0.09%	0.011%
172	22.547	1489	1492	1497	VV	3	1548	56009	0.07%	0.010%
173	22.644	1497	1499	1503	VV	3	1475	49481	0.07%	0.008%
174	22.742	1503	1506	1512	VV	5	2045	80995	0.11%	0.014%
175	22.896	1512	1517	1519	VV	3	1590	60322	0.08%	0.010%
176	22.966	1519	1522	1525	VV	2	2063	68571	0.09%	0.012%
177	23.036	1525	1527	1537	VV	3	1945	109472	0.14%	0.019%
178	23.218	1537	1540	1542	VV	3	2564	69783	0.09%	0.012%
179	23.260	1542	1543	1547	VV	2	1711	46013	0.06%	0.008%
180	23.344	1547	1549	1551	VV	2	1560	38209	0.05%	0.006%
181	23.400	1551	1553	1556	VV	3	2180	53289	0.07%	0.009%
[illegible]	23.470	1556	1558	1559	PV		2324	41851	0.06%	0.007%
[illegible]	23.512	1559	1561	1567	VV	5	2376	101622	0.13%	0.017%
184	23.624	1567	1569	1570	VV		2656	49987	0.07%	0.008%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
ALS Vial : 21 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

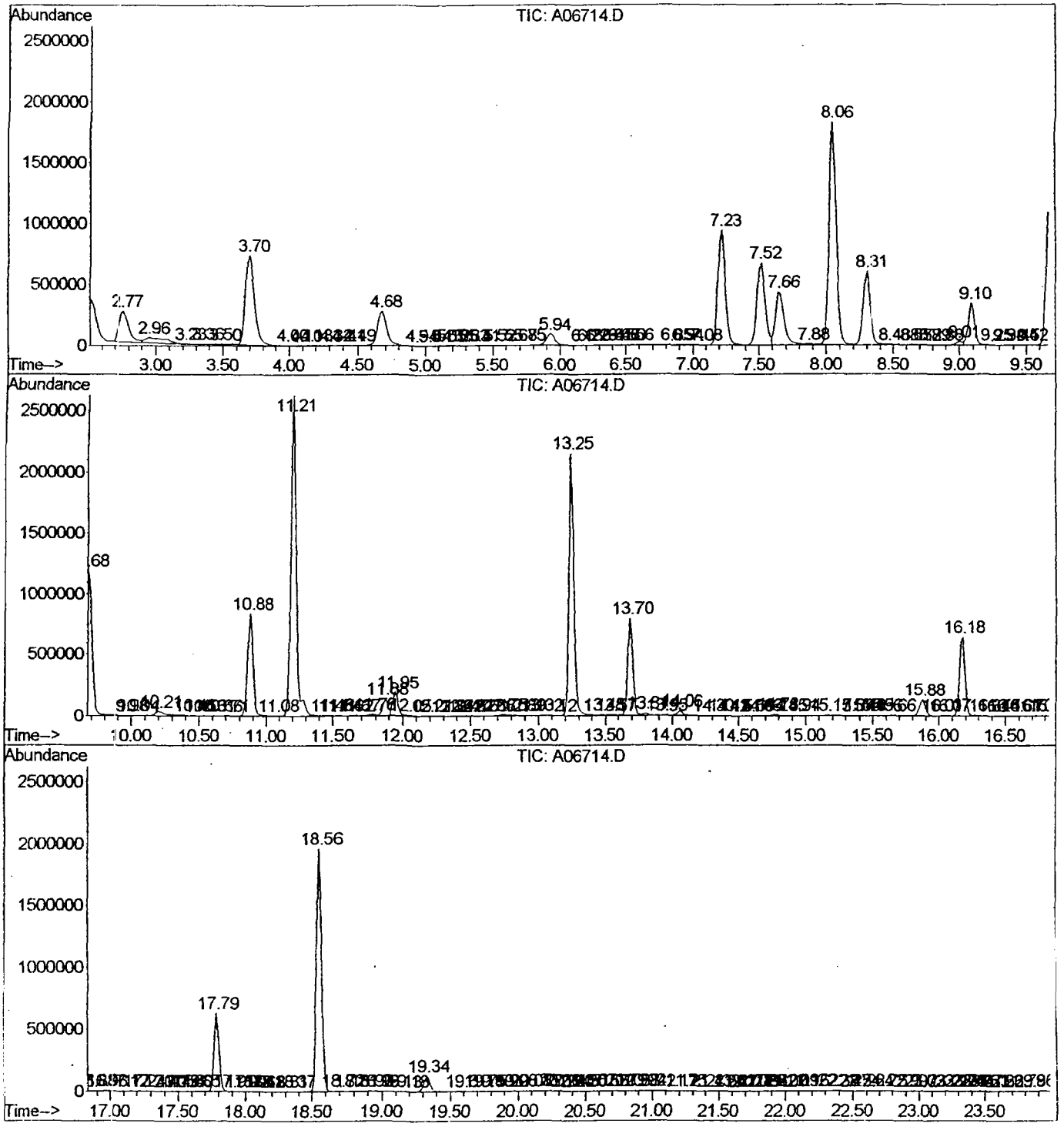
185	23.694	1570	1574	1577	VV 3	2708	109398	0.14%	0.019%
186	23.792	1577	1581	1583	VV 5	2386	65087	0.09%	0.011%
187	23.862	1583	1586	1588	VV 2	2367	46029	0.06%	0.008%

Sum of corrected areas: 589152669

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

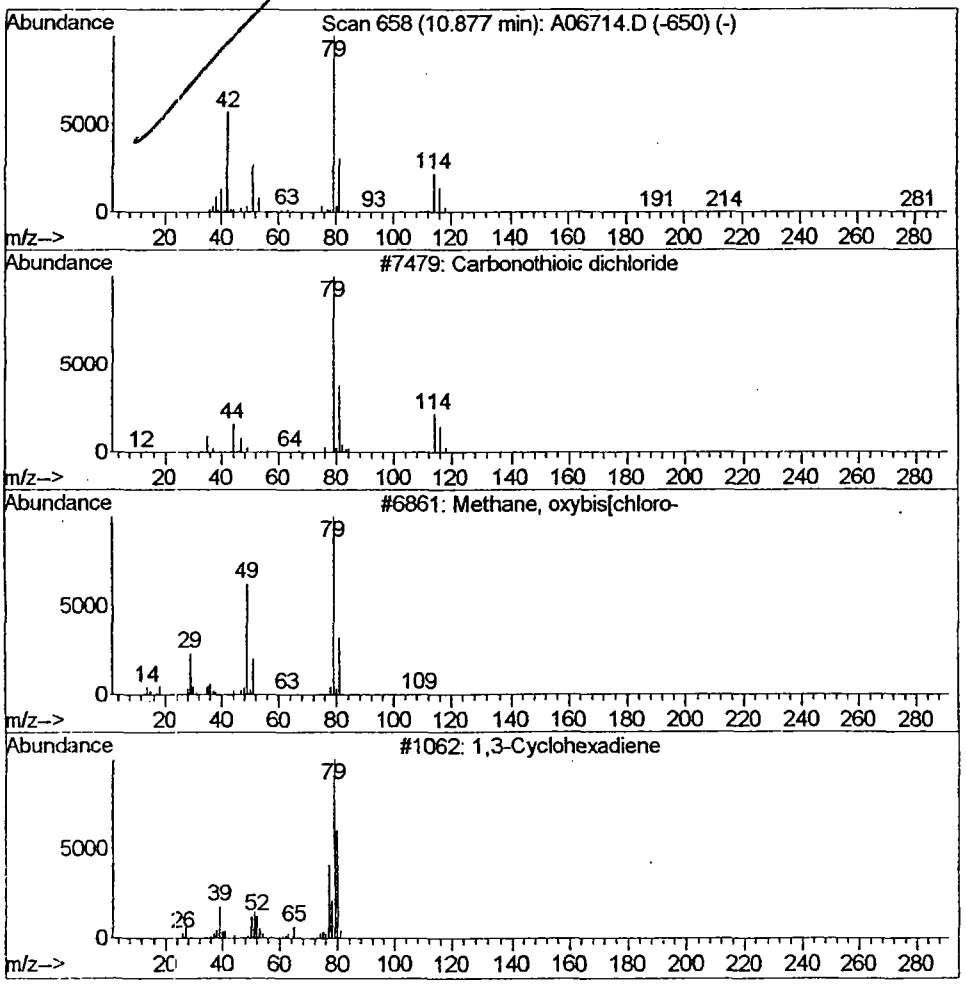
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

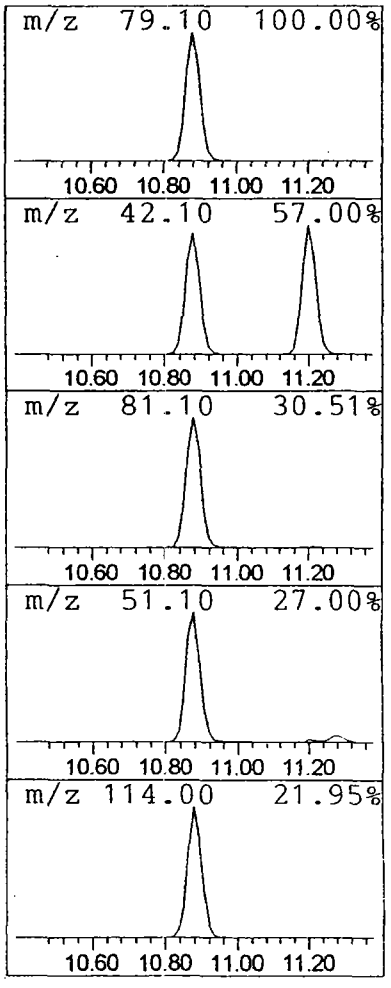
****

Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.88	10.48 ug/L	23913600	1,4-Difluorobenzene	9.10

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	50
2	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	37
3	1,3-Cyclohexadiene	80	C6H8	000592-57-4	23
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	9





Tentatively Identified Compound (LSC) Summary

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06714.D
Acq On : 12/14/06 22:20 Operator: SB
Sample : E2P51 Inst : A-5973
Misc : S-0350.17 25ML
ALS Vial : 21 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Carbonothioic dic...	10.88	10.5	ug/L	23913600	1	9.10	11406200	5.0

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

EPA SAMPLE NO.
E2P52

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.18

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06810

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/18/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.50	U
156-60-5	trans-1,2-Dichloroethene	2.3 ~~2.6~~	
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane ✓	2.2 ~~2.7~~	
156-59-2	cis-1,2-Dichloroethene	7.1 ✓	
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane ✓	39 ~~44~~	E
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

SF 1-19-07

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
E2P52

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.18

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06810

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/18/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	~~100~~ 210	E
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

ST 1-19-07

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

EPA SAMPLE NO.
E2P52

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.18

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06810

Level: (TRACE or LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/18/2006

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	15.86	0.55	~~J~~ U
02		Unknown-02	19.31	0.86	J
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	0	

[1] EPA-designated Registry Number.

ST
1-12-7

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\A-5973\A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 13:46:41 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Tue Dec 19 13:44:00 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	9.08	114	5524506	5.00	ug/L	0.00
30) Chlorobenzene-d5	13.69	117	5232380	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	17.78	152	1811902	5.00	ug/L	0.00

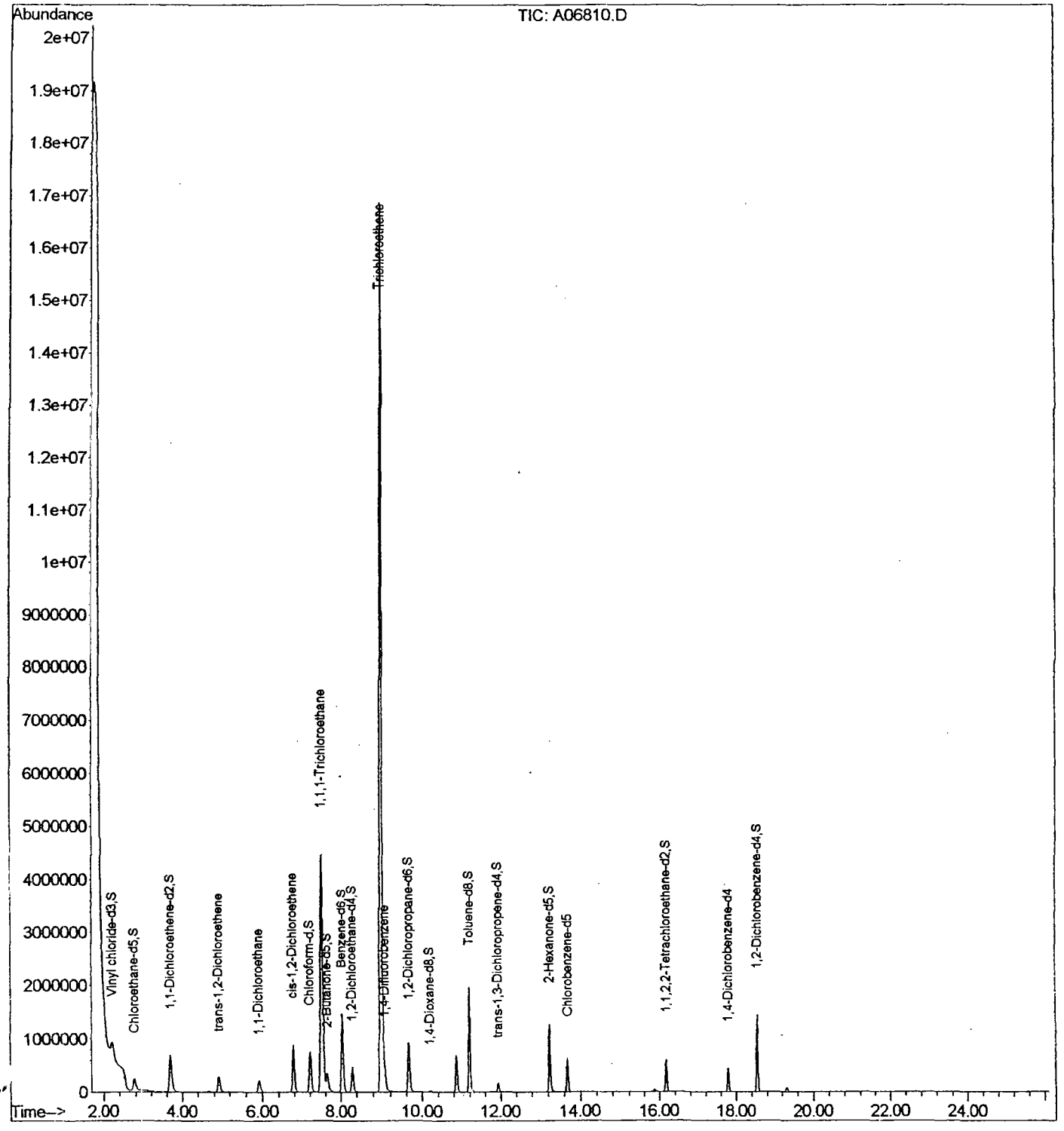
System Monitoring Compounds						
4) Vinyl chloride-d3	2.23	65	7623913	4.56	ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 91.20%			
7) Chloroethane-d5	2.76	69	4934903	4.01	ug/L	0.01
Spiked Amount 5.000	Range 71 - 131		Recovery = 80.20%			
10) 1,1-Dichloroethene-d2	3.70	63	11085240	3.14	ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 62.80%			
21) 2-Butanone-d5	7.65	46	9741170	36.41	ug/L	0.02
Spiked Amount 50.000	Range 49 - 155		Recovery = 72.82%			
24) Chloroform-d	7.22	84	11444157	3.50	ug/L	0.01
Spiked Amount 5.000	Range 78 - 121		Recovery = 70.00%#			
26) 1,2-Dichloroethane-d4	8.29	65	6102631	3.63	ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 72.60%#			
28) 1,4-Dioxane-d8	10.19	96	366239	148.00	ug/L	0.00
Spiked Amount 250.000	Range 50 - 150		Recovery = 59.20%			
34) Benzene-d6	8.05	84	23718989	4.86	ug/L	0.01
Spiked Amount 5.000	Range 77 - 124		Recovery = 97.20%			
38) 1,2-Dichloropropane-d6	9.67	67	6819053	4.77	ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 95.40%			
43) Toluene-d8	11.20	98	20324382	5.01	ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 100.20%			
45) trans-1,3-Dichloropropene-	11.94	79	1348901	3.90	ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 78.00%			
49) 2-Hexanone-d5	13.24	63	5460505	40.51	ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 81.02%			
59) 1,1,2,2-Tetrachloroethane-	16.17	84	4748646	4.71	ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 94.20%			
65) 1,2-Dichlorobenzene-d4	18.55	152	5806129	5.99	ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 119.80%			

Target Compounds						Qvalue
17) trans-1,2-Dichloroethene	4.94	96	2431908	2.33	ug/L	94
19) 1,1-Dichloroethane	5.93	63	4615759	2.23	ug/L	96
20) cis-1,2-Dichloroethene	6.78	96	6732381	7.08	ug/L	92
31) 1,1,1-Trichloroethane	7.51	97	60533420	39.27	ug/L #	94
36) Trichloroethene	8.99	95	97567541	101.29	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

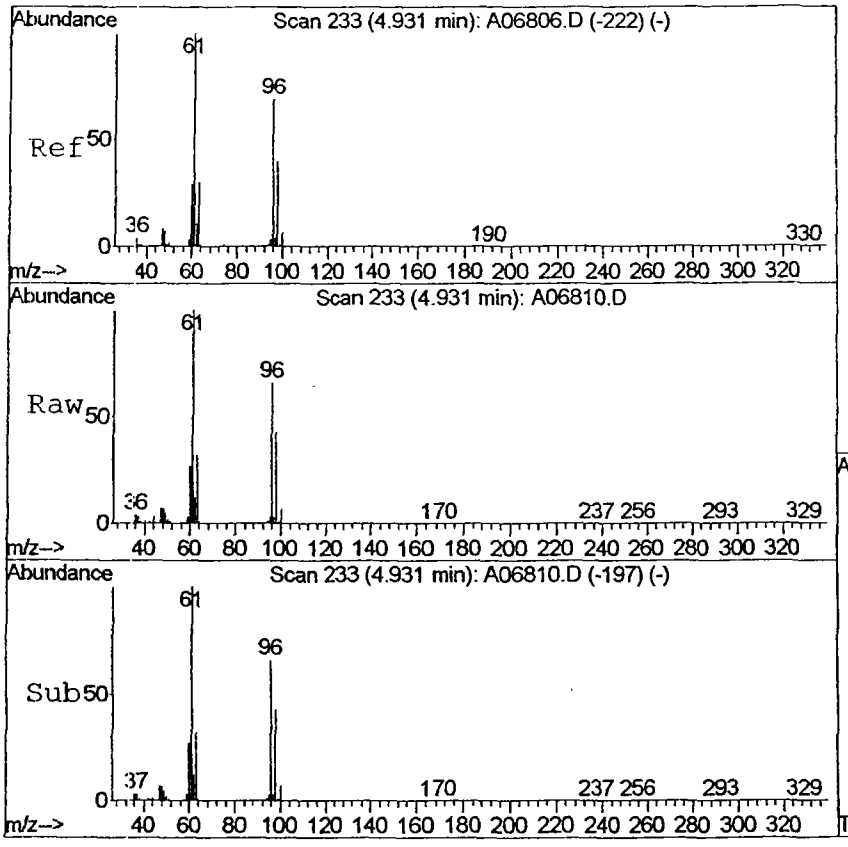
Data File: C:\MSDChem\1\A-5973\A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 19 13:46:41 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Tue Dec 19 13:44:00 2006
Response via : Initial Calibration



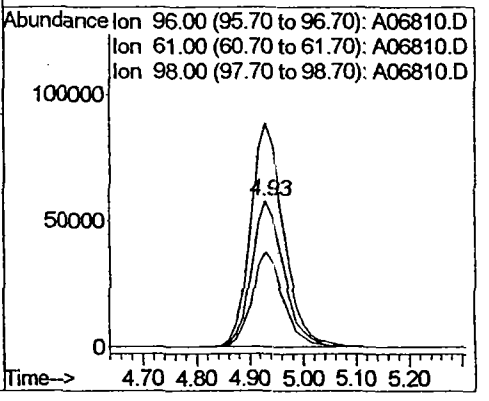
Data File : C:\MSDChem\1\A-5973\A06810.D
Acq On : 12/18/06 16:10
Sample : E2P52
Misc : S-0350.18 25ML
MS Integration Params: LSCINT.E

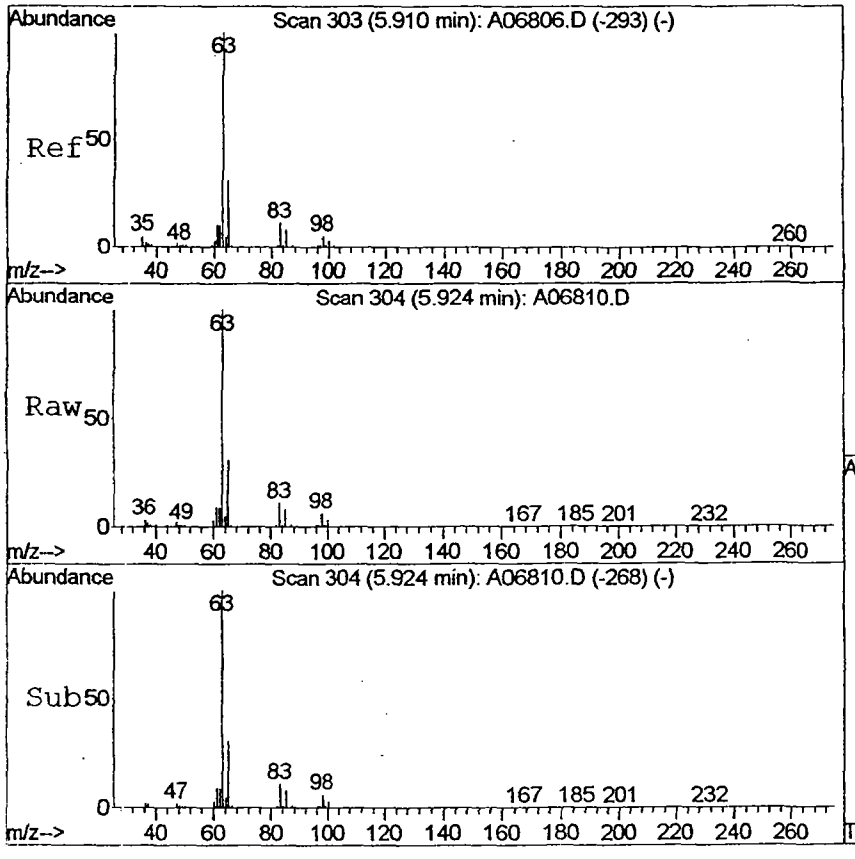
Vial: 6
Operator: SB
Inst : A-5973
Multiplr: 1.00



#17
trans-1,2-Dichloroethene
Concen: 2.33 ug/L
RT: 4.94 min Scan# 233
Delta R.T. 0.01 min
Integration Range:
Scan=224 to 248
R.T.= 4.80 to 5.14 (min)
Tgt Ion: 96 Resp: 2431908

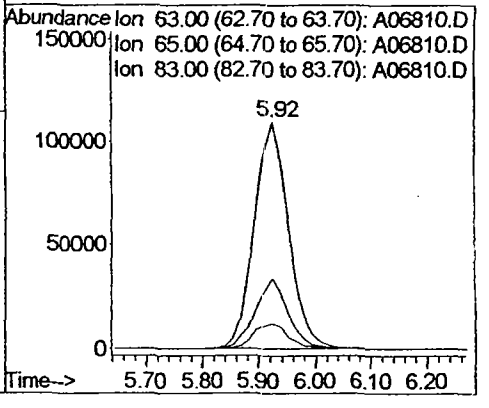
Ion	Ratio	Lower	Upper
96	100		
61	157.1	117.9	176.9
98	63.9	52.3	78.5



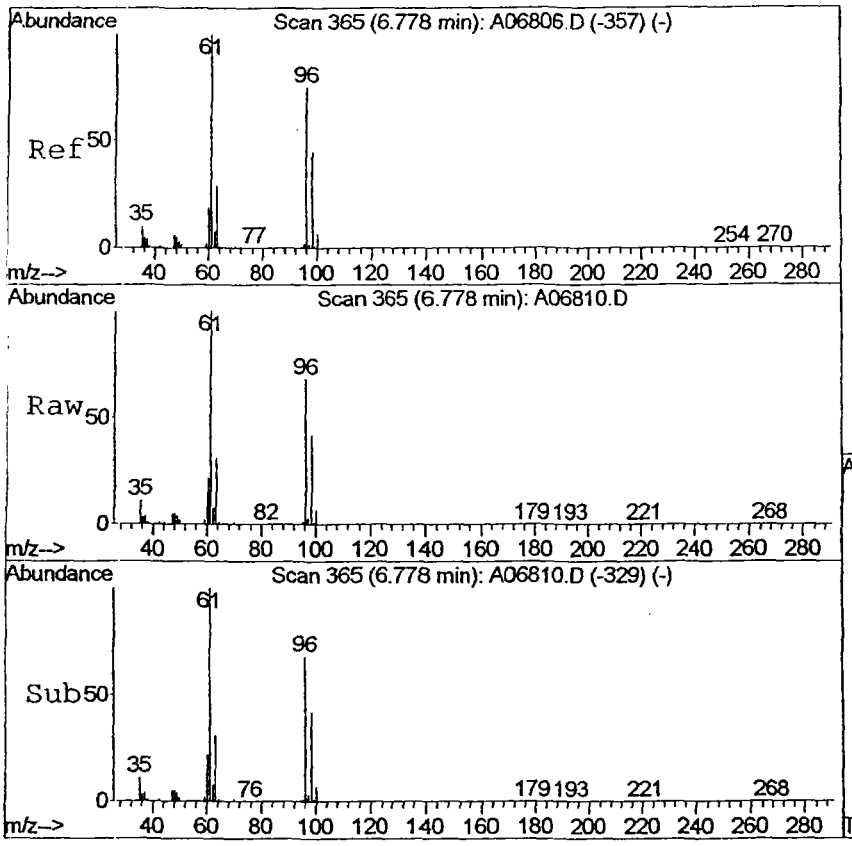


#19
1,1-Dichloroethane
Concen: 2.23 ug/L
RT: 5.93 min Scan# 304
Delta R.T. 0.01 min
Integration Range:
Scan=295 to 317
R.T.= 5.80 to 6.11 (min)
Tgt Ion: 63 Resp: 4615759

Ion	Ratio	Lower	Upper
63	100		
65	29.9	24.8	37.2
83	11.5	11.5	17.3

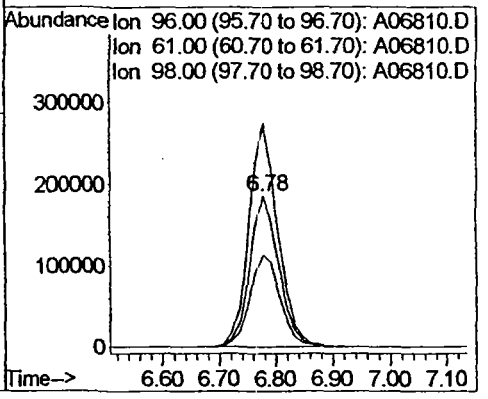


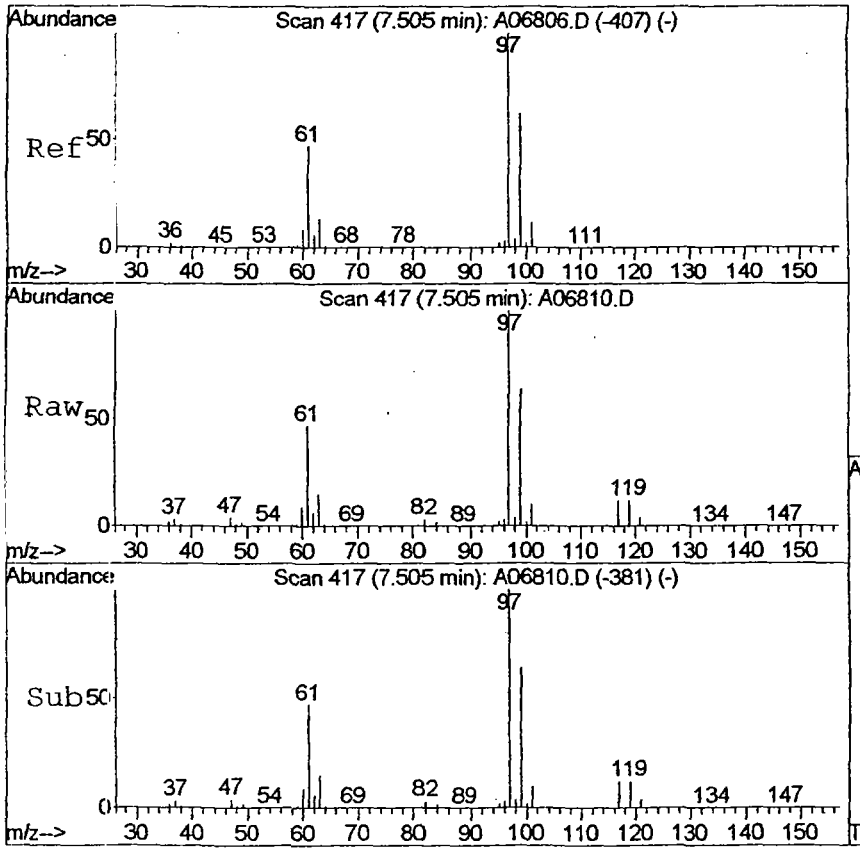
Data File : C:\MSDChem\1\A-5973\A06810.D Vial: 6
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#20
cis-1,2-Dichloroethene
Concen: 7.08 ug/L
RT: 6.78 min Scan# 365
Delta R.T. 0.01 min
Integration Range:
Scan=357 to 379
R.T.= 6.67 to 6.97 (min)
Tgt Ion: 96 Resp: 6732381

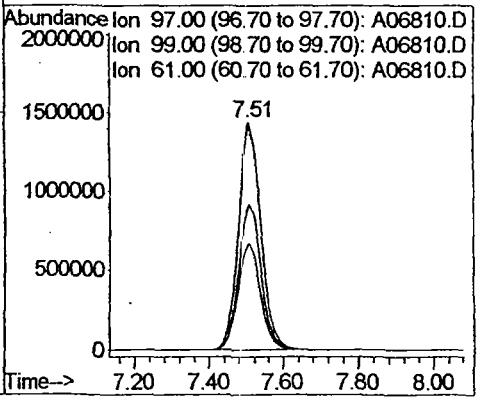
Ion	Ratio	Lower	Upper
96	100		
61	146.5	106.7	160.1
98	63.8	51.3	76.9



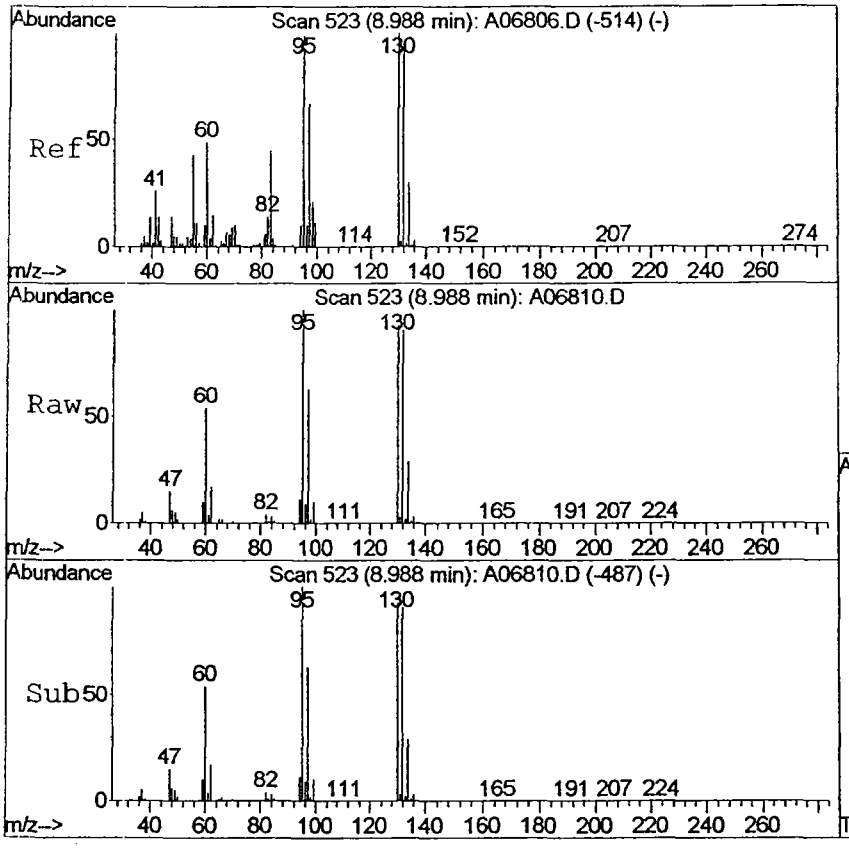


#31
1,1,1-Trichloroethane
Concen: 39.27 ug/L
RT: 7.51 min Scan# 417
Delta R.T. 0.01 min
Integration Range:
Scan=407 to 441
R.T.= 7.37 to 7.84 (min)
Tgt Ion: 97 Resp:60533420

Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.0	76.6
61	47.5	30.8	46.2#

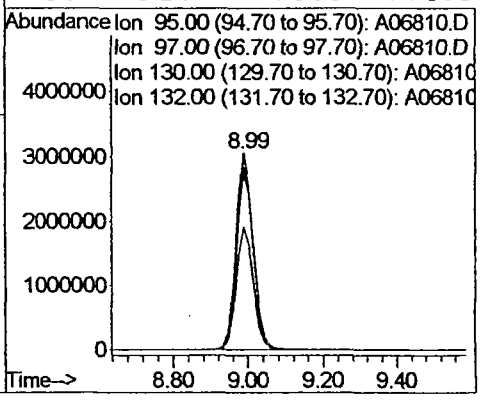


Data File : C:\MSDChem\1\A-5973\A06810.D Vial: 6
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst .: A-5973
Misc : S-0350.18 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#36
Trichloroethene
Concen: 101.29 ug/L
RT: 8.99 min Scan# 523
Delta R.T. 0.01 min
Integration Range:
Scan=515 to 549
R.T.= 8.88 to 9.35 (min)
Tgt Ion: 95 Resp:97567541

Ion	Ratio	Lower	Upper
95	100		
97	63.4	51.2	76.8
130	93.6	78.4	117.6
132	92.1	76.3	114.5



LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.762	70	78	95	BV	217011	11914782	2.14%	0.973%
2	3.028	95	97	115	VV 6	14072	926652	0.17%	0.076%
3	3.294	115	116	118	PV 2	859	15548	0.00%	0.001%
4	3.350	118	120	123	PV 5	2767	56007	0.01%	0.005%
5	3.419	123	125	129	VV 4	2611	115567	0.02%	0.009%
6	3.545	129	134	137	VV 5	3298	136612	0.02%	0.011%
7	3.699	137	145	169	VV	687179	32245766	5.80%	2.634%
8	4.105	169	174	176	PV 4	1864	50050	0.01%	0.004%
9	4.175	176	179	183	PV 4	1880	74436	0.01%	0.006%
10	4.315	183	189	197	VV 5	7055	415157	0.07%	0.034%
11	4.455	197	199	201	VV 2	1504	27132	0.00%	0.002%
12	4.525	201	204	205	PV 2	1675	32128	0.01%	0.003%
13	4.567	205	207	208	VV 2	1744	36461	0.01%	0.003%
14	4.665	208	214	226	VV 4	19706	1135154	0.20%	0.093%
15	4.931	226	233	248	VV	287889	12957323	2.33%	1.058%
16	5.168	248	250	254	VV 4	3755	133627	0.02%	0.011%
17	5.252	254	256	259	VV 4	2433	86514	0.02%	0.007%
18	5.350	259	263	264	VV 3	1953	57724	0.01%	0.005%
19	5.392	264	266	274	VV 3	2429	150069	0.03%	0.012%
20	5.532	274	276	277	VV 2	1682	27257	0.00%	0.002%
21	5.588	277	280	282	PV 2	2610	65452	0.01%	0.005%
22	5.644	282	284	288	VV 2	1881	60856	0.01%	0.005%
23	5.728	288	290	292	VV 2	1891	43320	0.01%	0.004%
24	5.924	292	304	317	VV	220269	9924854	1.78%	0.811%
25	6.134	317	319	322	VV 2	2244	59702	0.01%	0.005%
26	6.288	322	330	333	VV 4	2034	91841	0.02%	0.008%
27	6.358	333	335	336	VV 2	2166	36212	0.01%	0.003%
28	6.414	336	339	347	VV 4	2872	152954	0.03%	0.012%
29	6.568	347	350	352	VV 4	1314	41696	0.01%	0.003%
30	6.652	352	356	358	VV 2	1814	59198	0.01%	0.005%
31	6.778	358	365	379	VV	863497	32587191	5.86%	2.662%
32	7.015	379	382	385	VV 4	4695	196282	0.04%	0.016%
33	7.211	385	396	408	VV	746620	29647980	5.33%	2.422%
34	7.505	408	417	424	VV	4383312	188873043	33.96%	15.427%

LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

35	7.645	424	427	449	VV		354334	17737794	3.19%	1.449%
36	8.051	449	456	467	VV		1448598	53982135	9.71%	4.409%
37	8.289	467	473	490	VV		455573	18248108	3.28%	1.491%
38	8.554	490	492	498	VV	4	4931	256340	0.05%	0.021%
39	8.708	498	503	508	VV	5	3663	209065	0.04%	0.017%
40	8.820	508	511	514	VV	2	2333	85309	0.02%	0.007%
41	9.002	514	524	545	VV		16239954	556209262	100.00%	45.432%
42	9.310	545	546	550	VV	3	10252	370834	0.07%	0.030%
43	9.394	550	552	558	VV	5	7391	437613	0.08%	0.036%
44	9.506	558	560	562	VV	3	5686	162670	0.03%	0.013%
45	9.562	562	564	565	VV	2	5552	142572	0.03%	0.012%
46	9.674	565	572	592	VV		906127	32820644	5.90%	2.681%
47	9.982	592	594	599	VV	3	4936	217008	0.04%	0.018%
48	10.066	599	600	604	VV	3	3730	138253	0.02%	0.011%
9	10.192	604	609	617	VV		27246	1664512	0.30%	0.136%
50	10.331	617	619	631	VV	7	13560	782677	0.14%	0.064%
51	10.555	631	635	643	VV	4	4330	328410	0.06%	0.027%
52	10.751	643	649	651	VV	4	3264	179008	0.03%	0.015%
53	10.877	651	658	674	VV		666572	20917549	3.76%	1.709%
54	11.199	674	681	693	VV		1960205	58080702	10.44%	4.744%
55	11.381	693	694	699	VV	3	7156	297734	0.05%	0.024%
56	11.493	699	702	704	VV	3	5404	210295	0.04%	0.017%
57	11.535	704	705	707	VV	2	5399	110365	0.02%	0.009%
58	11.619	707	711	718	VV	6	4299	351605	0.06%	0.029%
59	11.773	718	722	726	VV	5	9532	429191	0.08%	0.035%
60	11.857	726	728	729	VV	2	4682	92912	0.02%	0.008%
61	11.941	729	734	746	VV		169416	5417395	0.97%	0.442%
62	12.206	746	753	761	VV	6	18740	897886	0.16%	0.073%
63	12.332	761	762	765	VV	2	2934	107860	0.02%	0.009%
64	12.416	765	768	775	VV	4	5376	279722	0.05%	0.023%
65	12.570	775	779	781	VV		3091	112455	0.02%	0.009%
66	12.738	781	791	801	VV	3	11067	806051	0.14%	0.066%
67	12.948	801	806	812	VV	3	2615	182692	0.03%	0.015%
68	13.060	812	814	816	VV	3	3001	75687	0.01%	0.006%
69	13.116	816	818	819	VV	2	2171	49464	0.01%	0.004%
0	13.242	819	827	843	VV		1251668	34053643	6.12%	2.782%
71	13.480	843	844	852	VV	5	7315	415827	0.07%	0.034%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

72	13.689	852	859	875	VV		616046	17588478	3.16%	1.437%
73	13.941	875	877	880	VV	3	3905	125218	0.02%	0.010%
74	14.039	880	884	890	VV	5	7185	314232	0.06%	0.026%
75	14.151	890	892	896	VV		4158	136175	0.02%	0.011%
76	14.235	896	898	902	VV	2	2175	98190	0.02%	0.008%
77	14.333	902	905	909	VV	2	2840	121492	0.02%	0.010%
78	14.417	909	911	915	VV	3	2389	73314	0.01%	0.006%
79	14.613	915	925	930	VV	4	2046	190392	0.03%	0.016%
80	14.767	930	936	940	VV	3	3033	176038	0.03%	0.014%
81	14.879	940	944	950	VV	5	2660	164562	0.03%	0.013%
82	14.991	950	952	955	VV	3	2213	52122	0.01%	0.004%
83	15.103	955	960	964	VV	2	1795	61348	0.01%	0.005%
84	15.243	964	970	975	VV	4	2852	150961	0.03%	0.012%
85	15.327	975	976	982	VV	3	2546	78104	0.01%	0.006%
86	15.480	982	987	994	VV	3	2357	118826	0.02%	0.010%
87	15.606	994	996	1000	VV	2	2021	68345	0.01%	0.006%
88	15.704	1000	1003	1005	VV	3	1616	54890	0.01%	0.004%
89	15.760	1005	1007	1009	VV	2	1874	50535	0.01%	0.004%
90	15.872	1009	1015	1030	VV	2	43947	1679397	0.30%	0.137%
91	16.166	1030	1036	1049	VV		580009	16568319	2.98%	1.353%
92	16.362	1049	1050	1053	VV		1482	47724	0.01%	0.004%
93	16.432	1053	1055	1060	VV	3	1993	85821	0.02%	0.007%
94	16.572	1060	1065	1071	VV	3	2031	138964	0.02%	0.011%
95	16.684	1071	1073	1077	VV	2	1875	66768	0.01%	0.005%
96	16.768	1077	1079	1084	VV	3	1932	50007	0.01%	0.004%
97	16.894	1084	1088	1090	VV	4	1390	46016	0.01%	0.004%
98	16.964	1090	1093	1096	VV	2	3013	95100	0.02%	0.008%
99	17.034	1096	1098	1101	VV	2	1585	38449	0.01%	0.003%
100	17.104	1101	1103	1104	VV		637	11306	0.00%	0.001%
101	17.173	1104	1108	1112	VV	2	1370	38292	0.01%	0.003%
102	17.285	1112	1116	1118	VV	2	1886	58966	0.01%	0.005%
103	17.341	1118	1120	1122	VV	2	1836	33388	0.01%	0.003%
104	17.467	1122	1129	1132	VV	4	2452	97707	0.02%	0.008%
105	17.537	1132	1134	1137	VV	2	2233	57432	0.01%	0.005%
106	17.607	1137	1139	1145	VV	4	2683	96739	0.02%	0.008%
107	17.789	1145	1152	1162	VV		428795	11613512	2.09%	0.949%
108	17.971	1162	1165	1169	VV	3	2532	112195	0.02%	0.009%
109	18.055	1169	1171	1173	VV	2	2583	67695	0.01%	0.006%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

110	18.111	1173	1175	1177	VV	3	2884	85134	0.02%	0.007%
111	18.167	1177	1179	1181	VV	2	2607	48158	0.01%	0.004%
112	18.209	1181	1182	1184	VV		2517	49523	0.01%	0.004%
113	18.279	1184	1187	1189	VV		2693	81938	0.01%	0.007%
114	18.335	1189	1191	1199	VV	3	1590	108727	0.02%	0.009%
115	18.559	1199	1207	1216	VV		1375809	36081734	6.49%	2.947%
116	18.713	1216	1218	1222	VV	3	4564	162869	0.03%	0.013%
117	18.783	1222	1223	1225	VV	2	4134	84551	0.02%	0.007%
118	18.825	1225	1226	1229	VV		3389	86863	0.02%	0.007%
119	18.880	1229	1230	1248	VV	4	3570	374447	0.07%	0.031%
120	19.146	1248	1249	1251	VV		2362	47895	0.01%	0.004%
121	19.328	1251	1262	1267	VV	2	79945	2853547	0.51%	0.233%
122	19.426	1267	1269	1273	VV	5	4112	171839	0.03%	0.014%
123	19.510	1273	1275	1278	VV	3	2987	103426	0.02%	0.008%
4	19.580	1278	1280	1283	VV	3	1926	61869	0.01%	0.005%
5	19.650	1283	1285	1296	VV	4	3687	204532	0.04%	0.017%
126	19.832	1296	1298	1300	VV	2	1790	49476	0.01%	0.004%
127	19.930	1300	1305	1306	VV	4	2235	81427	0.01%	0.007%
128	19.972	1306	1308	1310	VV	2	2143	47951	0.01%	0.004%
129	20.014	1310	1311	1313	VV		1951	46481	0.01%	0.004%
130	20.098	1313	1317	1319	VV	2	2493	83842	0.02%	0.007%
131	20.182	1319	1323	1327	VV	4	3119	119274	0.02%	0.010%
132	20.294	1327	1331	1334	VV	3	2486	96088	0.02%	0.008%
133	20.350	1334	1335	1337	VV		1837	33250	0.01%	0.003%
134	20.420	1337	1340	1344	VV	2	2061	77295	0.01%	0.006%
135	20.490	1344	1345	1347	VV	2	2393	45320	0.01%	0.004%
136	20.587	1347	1352	1358	VV	4	2402	120404	0.02%	0.010%
137	20.699	1358	1360	1361	VV	2	2807	54658	0.01%	0.004%
138	20.741	1361	1363	1368	VV	2	1839	76792	0.01%	0.006%
139	20.853	1368	1371	1374	VV	3	2020	82666	0.01%	0.007%
140	20.923	1374	1376	1379	VV	2	2221	56443	0.01%	0.005%
141	20.993	1379	1381	1383	VV		1704	46265	0.01%	0.004%
142	21.091	1383	1388	1390	VV	3	2749	93421	0.02%	0.008%
143	21.133	1390	1391	1393	VV	2	2015	40219	0.01%	0.003%
144	21.217	1393	1397	1401	VV	2	2165	80589	0.01%	0.007%
145	21.287	1401	1402	1406	VV	2	1861	46378	0.01%	0.004%
146	21.371	1406	1408	1417	VV	4	2156	139555	0.03%	0.011%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

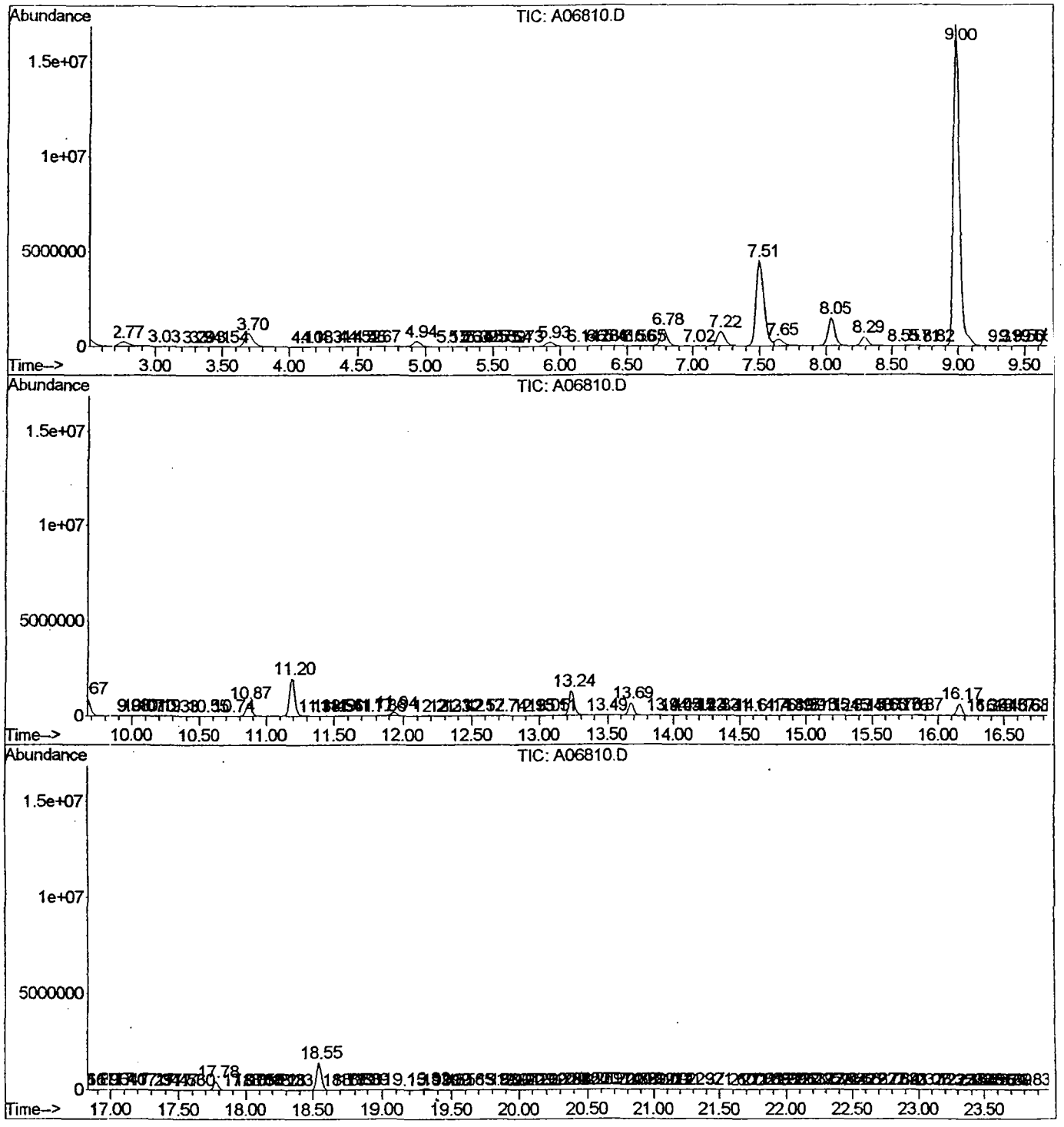
147	21.609	1417	1425	1429	VV	5	1786	112760	0.02%	0.009%
148	21.707	1429	1432	1437	VV	4	2109	102911	0.02%	0.008%
149	21.805	1437	1439	1441	VV	2	1708	44925	0.01%	0.004%
150	21.861	1441	1443	1446	VV	2	2709	67552	0.01%	0.006%
151	21.931	1446	1448	1450	VV	2	1473	37765	0.01%	0.003%
152	21.987	1450	1452	1456	VV	4	2293	77406	0.01%	0.006%
153	22.057	1456	1457	1459	PV		1291	19688	0.00%	0.002%
154	22.127	1459	1462	1464	VV	2	2159	63882	0.01%	0.005%
155	22.197	1464	1467	1469	VV	2	2099	47840	0.01%	0.004%
156	22.253	1469	1471	1475	VV	5	1838	81754	0.01%	0.007%
157	22.350	1475	1478	1481	VV		2120	80054	0.01%	0.007%
158	22.434	1481	1484	1487	VV	2	2352	77706	0.01%	0.006%
159	22.504	1487	1489	1490	VV	2	2224	44606	0.01%	0.004%
160	22.546	1490	1492	1495	VV	2	2318	71261	0.01%	0.006%
1	22.672	1495	1501	1506	VV	2	4324	255771	0.05%	0.021%
162	22.756	1506	1507	1509	VV	2	2111	44982	0.01%	0.004%
163	22.840	1509	1513	1516	VV	4	2100	100032	0.02%	0.008%
164	22.910	1516	1518	1522	VV	2	1953	54786	0.01%	0.004%
165	23.064	1522	1529	1531	PV	5	2441	120438	0.02%	0.010%
166	23.120	1531	1533	1536	VV	3	2704	73985	0.01%	0.006%
167	23.260	1536	1543	1545	VV	4	2017	119405	0.02%	0.010%
168	23.344	1545	1549	1554	VV	4	2352	107328	0.02%	0.009%
169	23.428	1554	1555	1558	VV	2	2719	65759	0.01%	0.005%
170	23.484	1558	1559	1562	VV	2	2079	52159	0.01%	0.004%
171	23.554	1562	1564	1566	VV	3	2034	43547	0.01%	0.004%
172	23.652	1566	1571	1572	VV		2322	71069	0.01%	0.006%
173	23.694	1572	1574	1576	VV	2	2182	57311	0.01%	0.005%
174	23.834	1576	1584	1587	VV	4	2145	130048	0.02%	0.011%

Sum of corrected areas: 1224274392

Data Path : C:\MSDChem\1\A-5973\
Data File : A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

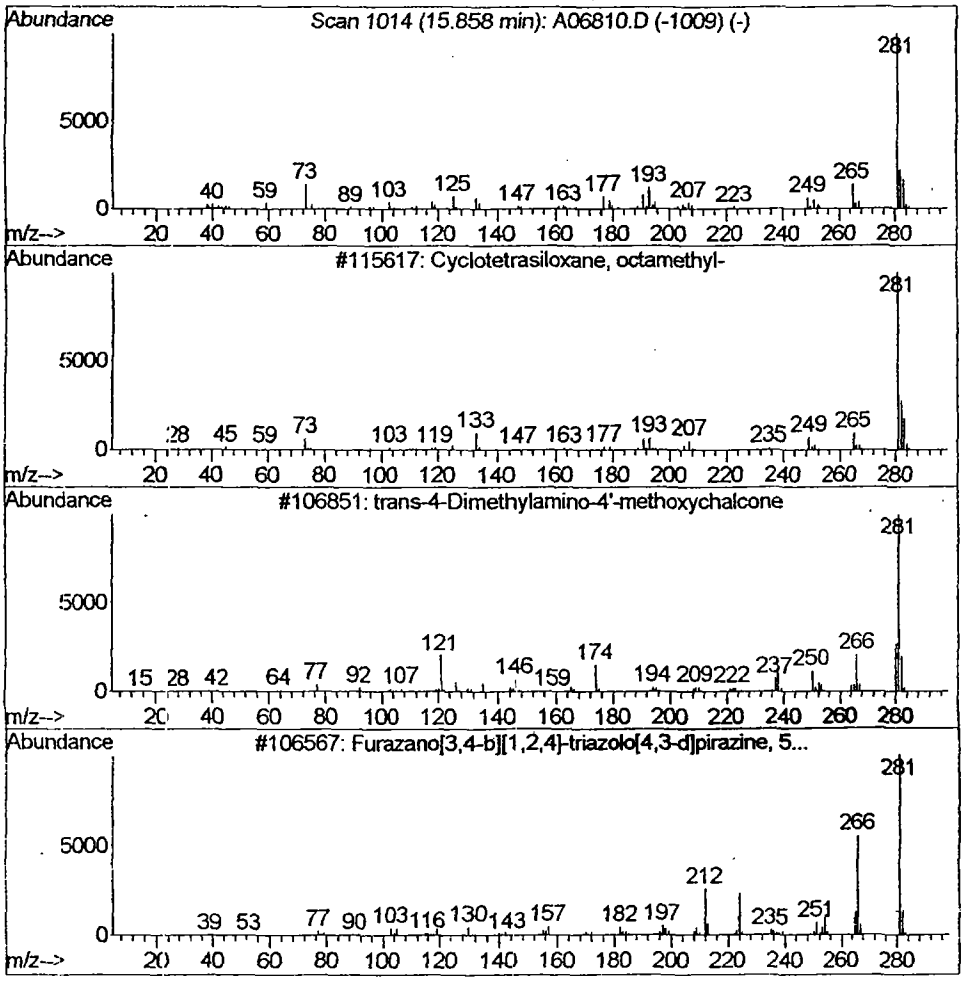
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

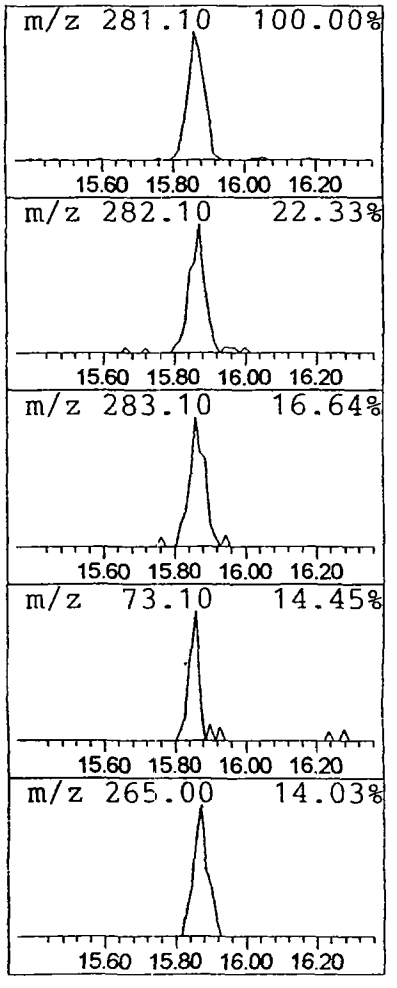
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 1 Cyclotetrasiloxane, octamet... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.86	0.55 ug/L	1271170	1,4-Dichlorobenzene-d4	17.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	72
2	trans-4-Dimethylamino-4'-methoxy...	281	C18H19NO2	052119-37-6	53
3	Furazano[3,4-b][1,2,4]-triazolo[...	281	C13H11N7O	311783-53-6	53
4	Morphinan, 7,8-didehydro-3-metho...	281	C19H23NO	001816-06-4	49
5	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	47





Library Search Compound Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

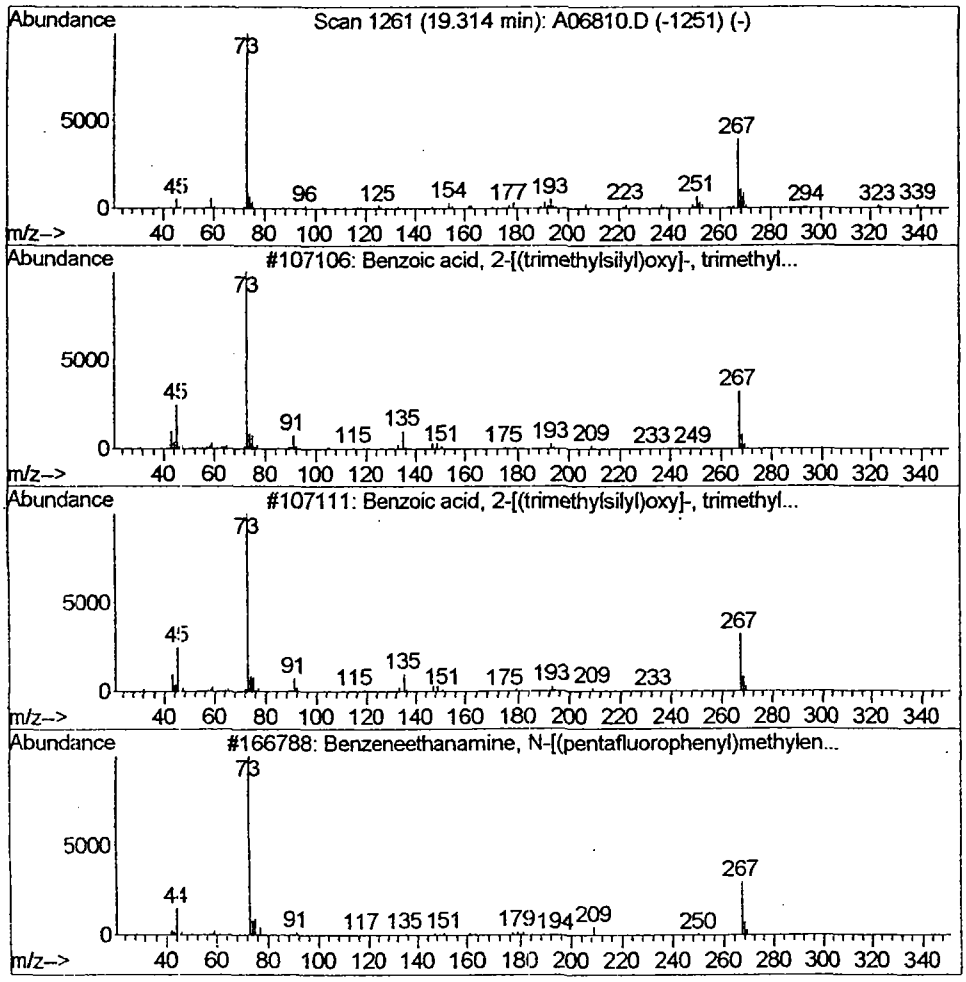
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

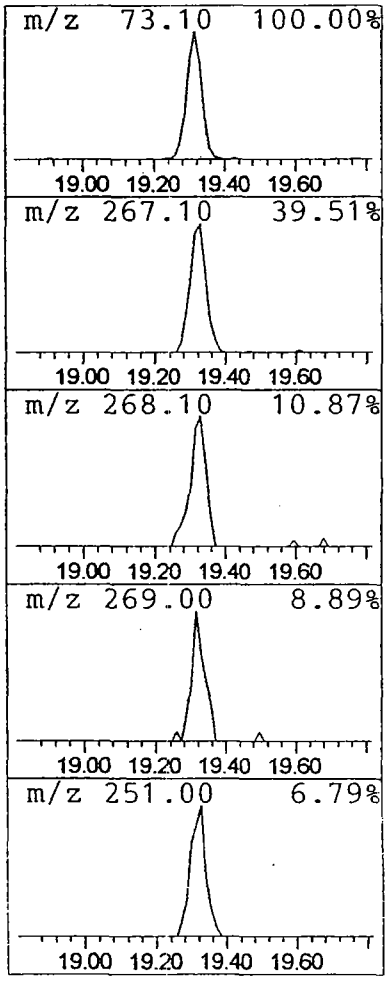
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 2 Benzoic acid, 2-[(trimethyl... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.31	0.86 ug/L	1992550	1,4-Dichlorobenzene-d4	17.78

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	45
2	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	45
3	Benzeneethanamine, N-[(pentafluo...	475	C21H26F5NO2Si2	055429-85-1	42
4	Benzoic acid, 2-[(trimethylsilyl...	282	C13H22O3Si2	003789-85-3	38
5	Benzeneacetic acid, .alpha.,4-bi...	326	C15H26O4Si2	055334-40-2	36





Tentatively Identified Compound (LSC) Summary

Data Path : C:\MSDChem\1\A-5973\
Data File : A06810.D
Acq On : 12/18/06 16:10 Operator: SB
Sample : E2P52 Inst : A-5973
Misc : S-0350.18 25ML
ALS Vial : 6 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Cyclotetrasiloxan...	15.86	0.5	ug/L	1271170	3	17.78	11613500	5.0
Benzoic acid, 2-[...	19.31	0.9	ug/L	1992550	3	17.78	11613500	5.0

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

EPA SAMPLE NO.
E2P52DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.18DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06715

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	50	U
75-15-0	Carbon disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	34 ~~45~~	D
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	5.4	D
78-93-3	2-Butanone	50	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	27 ~~30~~	D
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	200	U

SF 1-19-07

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
E2P52DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.18DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06715

Level: (TRACE/LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	63 ~~70~~	D
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	50	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	50	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
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

ST
1-19-07

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
E2P52DL

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: S-0350.18DL

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06715

Level: (TRACE or LOW/MED) TRACE Date Received: 12/07/2006

% Moisture: not dec. _____ Date Analyzed: 12/14/2006

GC Column: RTX-VMS ID: 0.25 (mm) Dilution Factor: 10.0

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.88	82	~~DJ~~ U
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A	0	

[1] EPA-designated Registry Number.

ST 1-12-

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDCHEM\1\A-5973\A06715.D
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 15 08:12:00 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 07:55:13 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	9.09	114	6017749	5.00 ug/L	0.00
30) Chlorobenzene-d5	13.70	117	6773882	5.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	17.80	152	2444442	5.00 ug/L	0.00

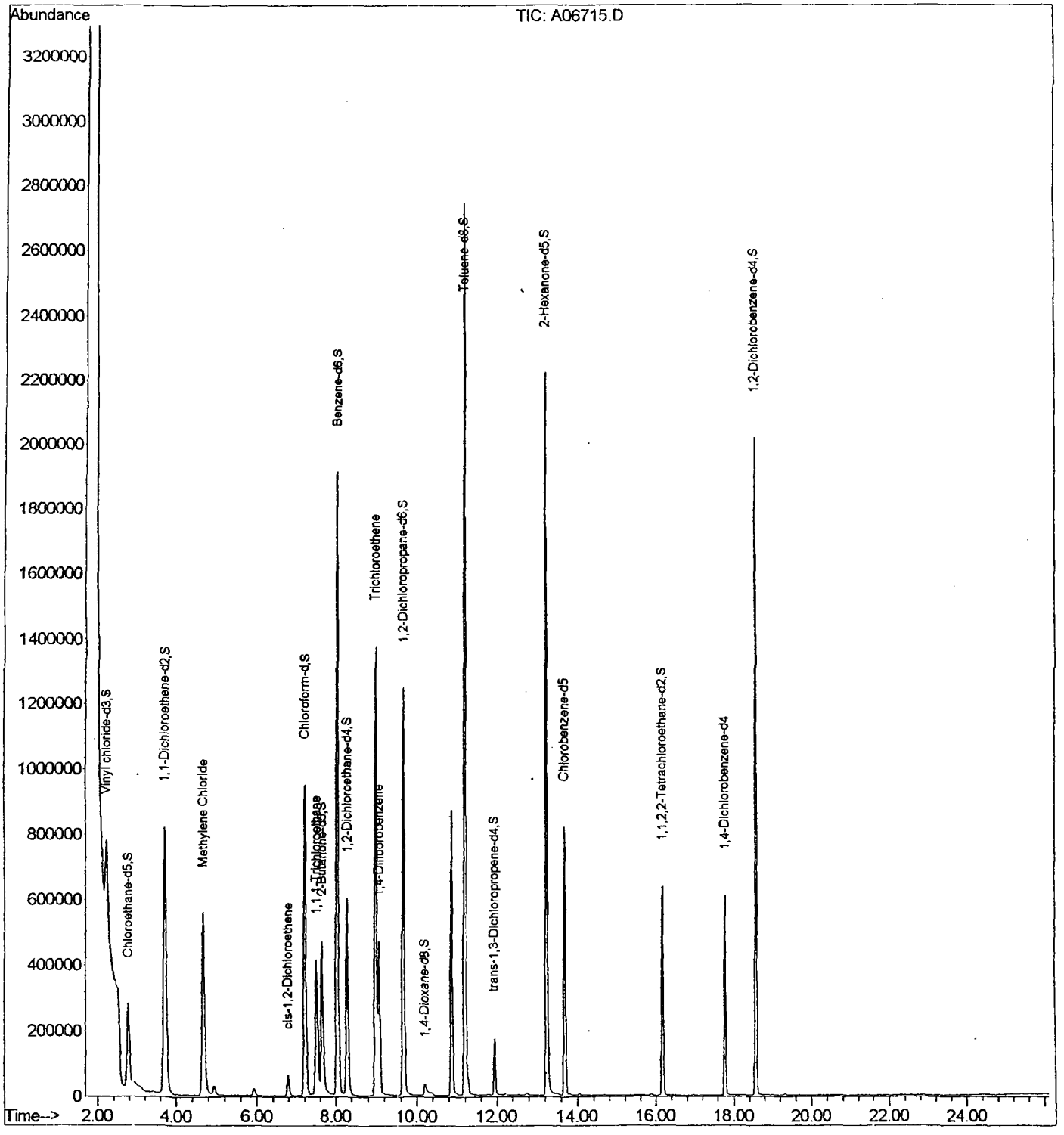
System Monitoring Compounds					
4) Vinyl chloride-d3	2.24	65	7749754	4.26 ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 85.20%		
7) Chloroethane-d5	2.77	69	5648371	4.21 ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery = 84.20%		
10) 1,1-Dichloroethene-d2	3.71	63	13681656	3.56 ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 71.20%		
21) 2-Butanone-d5	7.66	46	12959329	44.46 ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 88.92%		
24) Chloroform-d	7.23	84	14624293	4.11 ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 82.20%		
26) 1,2-Dichloroethane-d4	8.31	65	7587201	4.14 ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 82.80%		
28) 1,4-Dioxane-d8	10.21	96	529666	196.50 ug/L	0.00
Spiked Amount 250.000	Range 50 - 150		Recovery = 78.60%		
34) Benzene-d6	8.06	84	30428928	4.81 ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 96.20%		
38) 1,2-Dichloropropane-d6	9.68	67	8831127	4.77 ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 95.40%		
43) Toluene-d8	11.21	98	27339730	5.20 ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 104.00%		
45) trans-1,3-Dichloropropene-	11.95	79	1381755	3.08 ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 61.60%#		
49) 2-Hexanone-d5	13.25	63	9549131	54.72 ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 109.44%		
59) 1,1,2,2-Tetrachloroethane-	16.18	84	5273918	4.04 ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 80.80%		
65) 1,2-Dichlorobenzene-d4	18.56	152	8061705	6.16 ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 123.20%		

Target Compounds					Qvalue
16) Methylene Chloride	4.68	84	5246824	3.38 ug/L #	69
20) cis-1,2-Dichloroethene	6.79	96	556257	0.54 ug/L	93
31) 1,1,1-Trichloroethane	7.52	97	5436137	2.72 ug/L #	93
36) Trichloroethene	9.01	95	7905292	6.34 ug/L	96

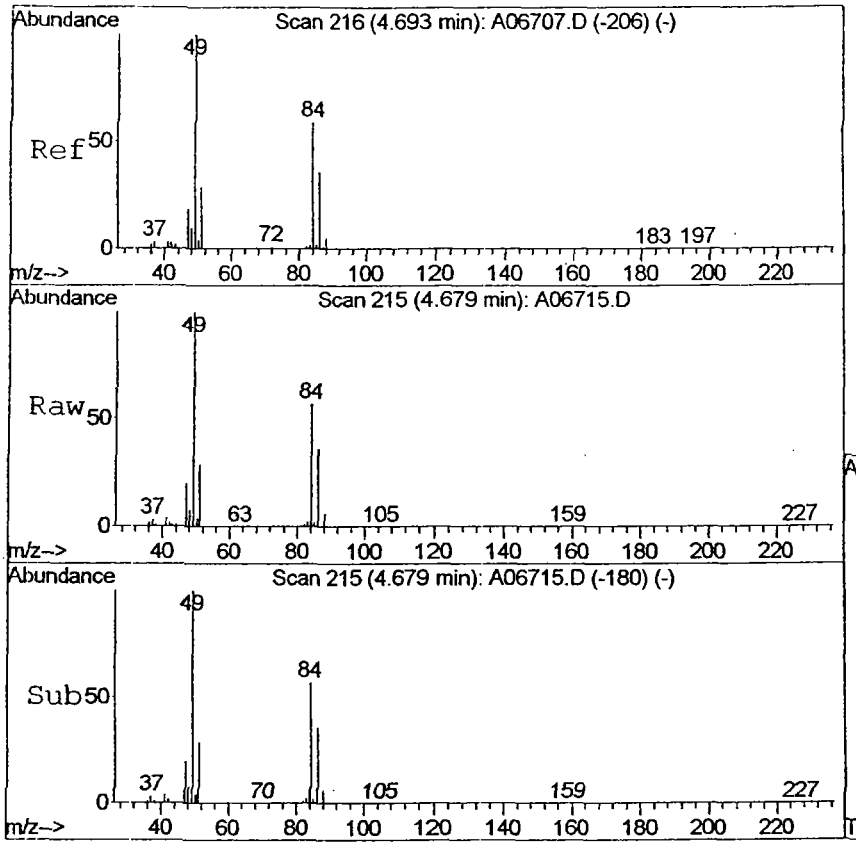
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\MSDCHEM\1\A-5973\A06715.D
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 15 08:12:00 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 07:55:13 2006
Response via : Initial Calibration

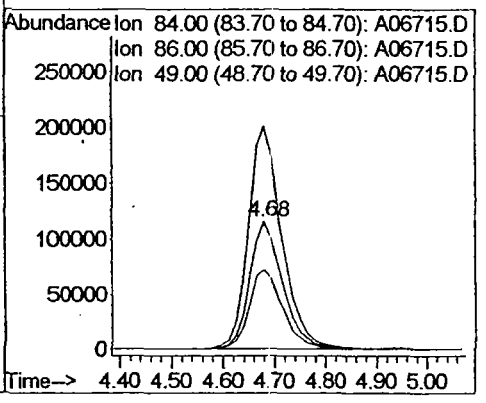


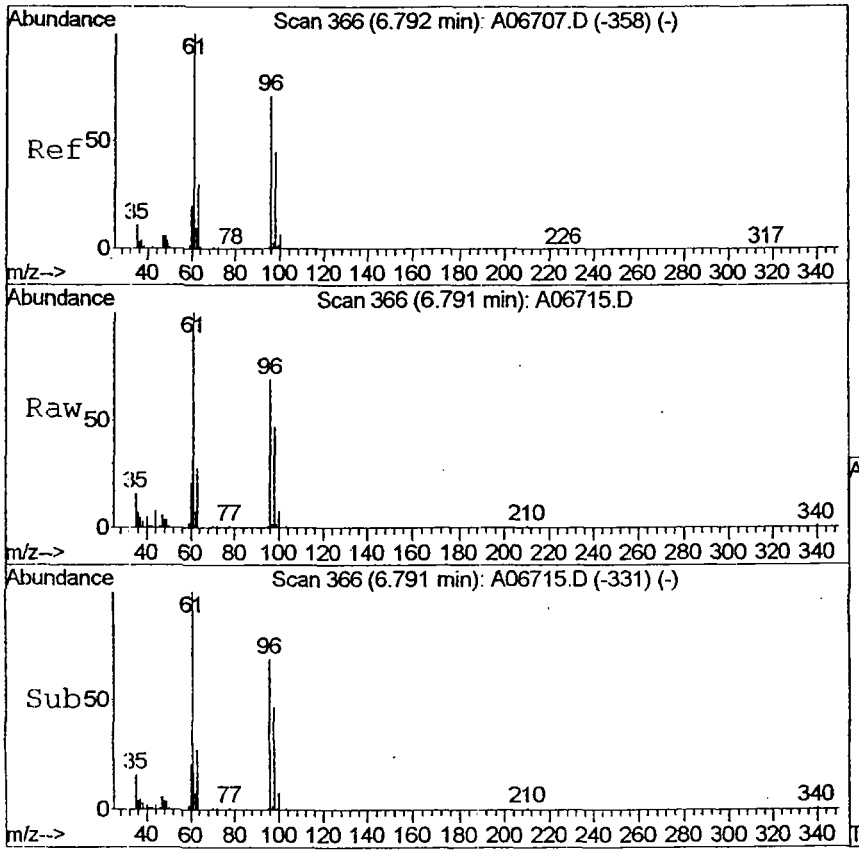
Data File : C:\MSDCHEM\1\A-5973\A06715.D Vial: 22
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#16
Methylene Chloride
Concen: 3.38 ug/L
RT: 4.68 min Scan# 215
Delta R.T. -0.00 min
Integration Range:
Scan=206 to 231
R.T.= 4.55 to 4.90 (min)
Tgt Ion: 84 Resp: 5246824

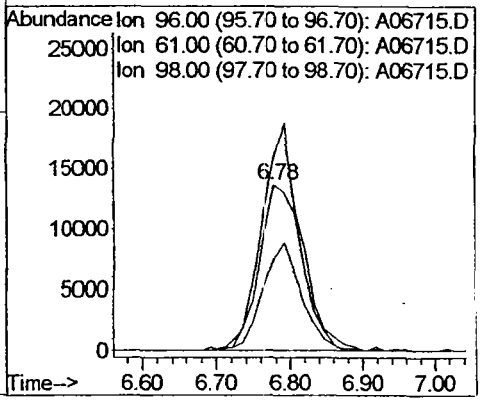
Ion	Ratio	Lower	Upper
84	100		
86	63.6	51.6	77.4
49	174.7	97.1	145.7#



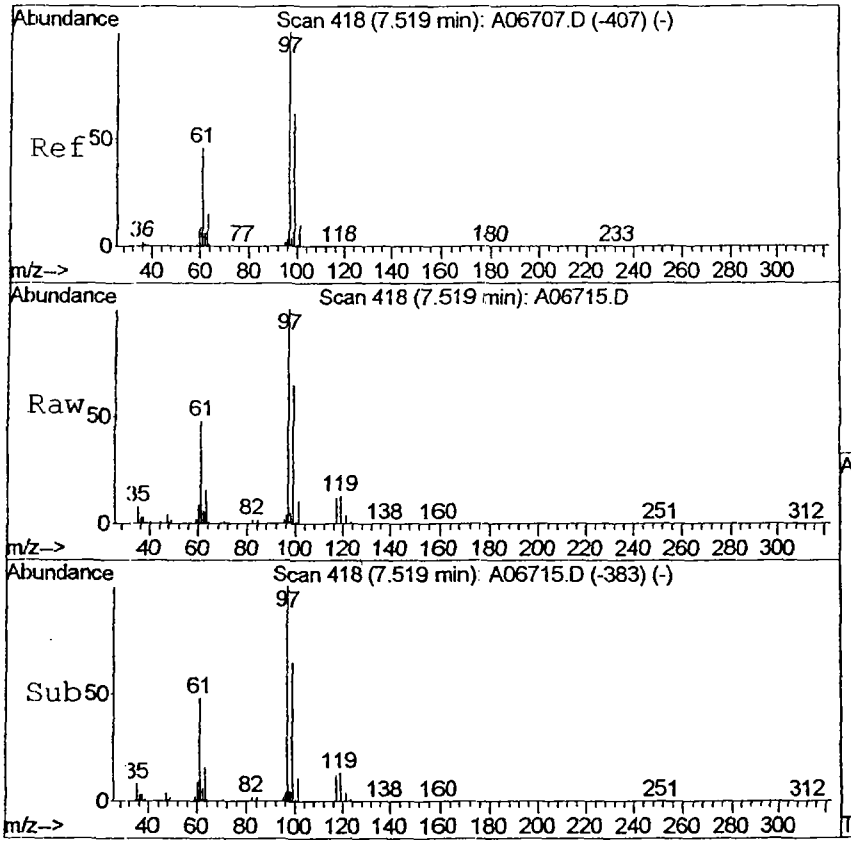


#20
cis-1,2-Dichloroethene
Concen: 0.54 ug/L
RT: 6.79 min Scan# 366
Delta R.T. -0.01 min
Integration Range:
Scan=358 to 375
R.T.= 6.68 to 6.92 (min)
Tgt Ion: 96 Resp: 556257

Ion	Ratio	Lower	Upper
96	100		
61	125.4	106.7	160.1
98	59.0	51.3	76.9

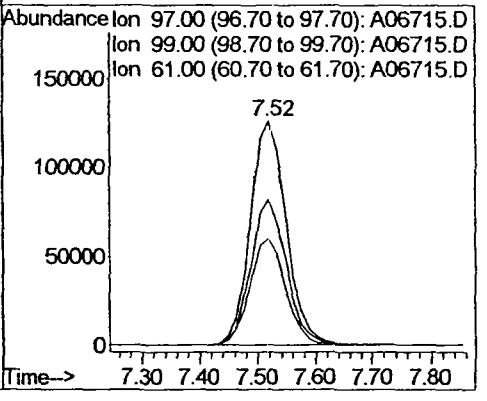


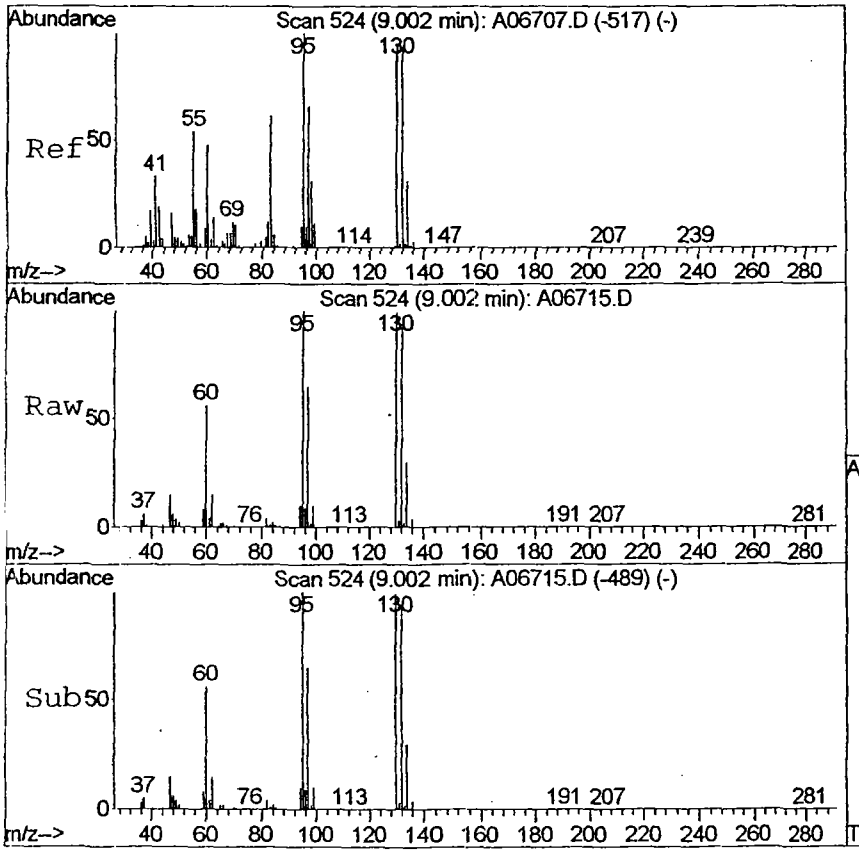
Data File : C:\MSDCHEM\1\A-5973\A06715.D Vial: 22
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#31
1,1,1-Trichloroethane
Concen: 2.72 ug/L
RT: 7.52 min Scan# 418
Delta R.T. -0.00 min
Integration Range:
Scan=409 to 431
R.T.= 7.39 to 7.70 (min)
Tgt Ion: 97 Resp: 5436137

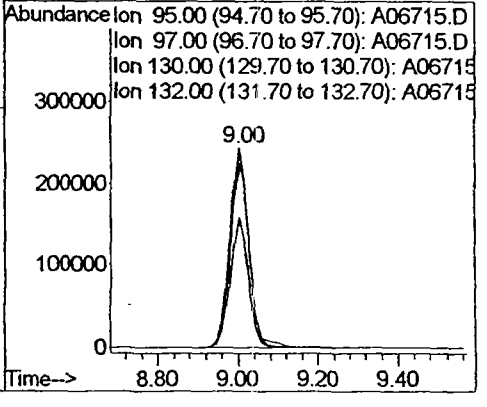
Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.0	76.6
61	48.1	30.8	46.2#





#36
Trichloroethene
Concen: 6.34 ug/L
RT: 9.01 min Scan# 524
Delta R.T. 0.00 min
Integration Range:
Scan=517 to 549
R.T.= 8.90 to 9.35 (min)
Tgt Ion: 95 Resp: 7905292

Ion	Ratio	Lower	Upper
95	100		
97	62.0	51.2	76.8
130	93.7	78.4	117.6
132	91.6	76.3	114.5



LSC Area Percent Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06715.D
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.776	72	79	89	BV	251068	12569856	15.98%	1.640%
2	2.944	89	91	111	VV 10	21419	2047437	2.60%	0.267%
3	3.252	111	113	115	PV 2	2134	40454	0.05%	0.005%
4	3.308	115	117	119	VV 2	3091	66693	0.08%	0.009%
5	3.419	119	125	129	PV 8	4850	268465	0.34%	0.035%
6	3.503	129	131	138	VV 5	2358	150577	0.19%	0.020%
7	3.713	138	146	165	VV	797116	37426257	47.57%	4.882%
8	4.021	165	168	172	VV 5	1635	57972	0.07%	0.008%
9	4.091	172	173	176	PV 2	1476	21960	0.03%	0.003%
10	4.175	176	179	181	VV 4	990	29252	0.04%	0.004%
11	4.217	181	182	184	VV 2	1132	22385	0.03%	0.003%
12	4.301	184	188	192	VV 5	1905	77366	0.10%	0.010%
13	4.371	192	193	197	VV 2	1474	41606	0.05%	0.005%
14	4.455	197	199	206	VV 5	1530	63884	0.08%	0.008%
15	4.679	206	215	228	PV	551433	26474566	33.65%	3.453%
16	4.945	228	234	243	VV 2	29695	1649587	2.10%	0.215%
17	5.126	243	247	253	VV 3	3968	203273	0.26%	0.027%
18	5.252	253	256	269	VV 4	2086	200750	0.26%	0.026%
19	5.462	269	271	273	VV 3	2353	77964	0.10%	0.010%
20	5.532	273	276	278	VV 3	3144	76887	0.10%	0.010%
21	5.574	278	279	283	VV 3	2066	66653	0.08%	0.009%
22	5.644	283	284	286	VV	1589	30074	0.04%	0.004%
23	5.686	286	287	289	VV	1844	33106	0.04%	0.004%
24	5.742	289	291	294	VV 3	2828	80408	0.10%	0.010%
25	5.798	294	295	299	VV 3	2519	82861	0.11%	0.011%
26	5.938	299	305	314	VV	23941	1167501	1.48%	0.152%
27	6.078	314	315	317	VV 2	2369	46769	0.06%	0.006%
28	6.260	317	328	331	VV 3	2655	223259	0.28%	0.029%
29	6.442	331	341	349	VV 6	4300	409754	0.52%	0.053%
30	6.652	349	356	358	VV 2	3694	181968	0.23%	0.024%
31	6.791	358	366	376	VV 2	64414	2857055	3.63%	0.373%
32	6.987	376	380	381	VV 2	3267	120617	0.15%	0.016%
33	7.029	381	383	386	VV 2	3823	129763	0.16%	0.017%
34	7.225	386	397	409	VV	952169	37770637	48.00%	4.927%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06715.D
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

35	7.519	409	418	423	VV		404210	17567856	22.33%	2.291%
36	7.659	423	428	444	VV		470106	21208676	26.95%	2.766%
37	7.925	444	447	449	VV	2	9817	387728	0.49%	0.051%
38	8.051	449	456	468	VV		1866644	68345172	86.86%	8.914%
39	8.303	468	474	498	VV		584973	23074171	29.33%	3.010%
40	8.680	498	501	505	VV	4	7164	331806	0.42%	0.043%
41	8.750	505	506	508	VV		5679	134112	0.17%	0.017%
42	9.002	508	524	528	VV		1334228	45239865	57.50%	5.901%
43	9.086	528	530	543	VV		460282	15533356	19.74%	2.026%
44	9.310	543	546	557	VV	5	10689	1051610	1.34%	0.137%
45	9.492	557	559	562	VV	2	8100	295340	0.38%	0.039%
46	9.688	562	573	585	VV		1195454	42369679	53.85%	5.526%
47	9.870	585	586	596	VV	5	11496	878070	1.12%	0.115%
48	10.038	596	598	600	VV	2	8672	229161	0.29%	0.030%
[illegible]	10.080	600	601	605	VV		8868	367270	0.47%	0.048%
50	10.206	605	610	631	VV	2	43663	4158150	5.28%	0.542%
51	10.569	631	636	642	VV	4	8939	726718	0.92%	0.095%
52	10.723	642	647	649	VV	2	9638	515808	0.66%	0.067%
53	10.877	649	658	669	VV		833583	25370394	32.24%	3.309%
54	11.045	669	670	672	VV	2	12967	292967	0.37%	0.038%
55	11.213	672	682	698	VV		2600306	78684051	100.00%	10.263%
56	11.451	698	699	706	VV	4	13891	773701	0.98%	0.101%
57	11.577	706	708	710	VV		12741	362500	0.46%	0.047%
58	11.633	710	712	714	VV	2	12043	370374	0.47%	0.048%
59	11.787	714	723	727	VV	3	14222	1305080	1.66%	0.170%
60	11.871	727	729	730	VV		13099	319424	0.41%	0.042%
61	11.954	730	735	743	VV		180220	6141716	7.81%	0.801%
62	12.080	743	744	746	VV		12775	332669	0.42%	0.043%
63	12.220	746	754	758	VV	5	15577	1274723	1.62%	0.166%
64	12.290	758	759	763	VV	3	11863	444390	0.56%	0.058%
65	12.388	763	766	772	VV	3	12175	905055	1.15%	0.118%
66	12.528	772	776	778	VV	3	12576	582105	0.74%	0.076%
67	12.570	778	779	781	VV	2	13141	348255	0.44%	0.045%
68	12.752	781	792	807	VV	3	18491	2728702	3.47%	0.356%
69	13.032	807	812	815	VV	3	11990	717752	0.91%	0.094%
[illegible]	13.116	815	818	821	VV	2	12379	636802	0.81%	0.083%
71	13.256	821	828	838	VV		2100292	56880786	72.29%	7.419%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06715.D
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

72	13.424	838	840	843	VV	3	20698	758901	0.96%	0.099%
73	13.494	843	845	851	VV	5	19293	1101886	1.40%	0.144%
74	13.689	851	859	865	VV		793746	22773615	28.94%	2.970%
75	13.801	865	867	875	VV	5	18122	1274164	1.62%	0.166%
76	13.941	875	877	878	VV	2	14009	359700	0.46%	0.047%
77	13.983	878	880	882	VV	2	14963	462830	0.59%	0.060%
78	14.053	882	885	889	VV	3	19416	828430	1.05%	0.108%
79	14.193	889	895	897	VV	3	13941	932353	1.18%	0.122%
80	14.277	897	901	904	VV	2	14897	764773	0.97%	0.100%
81	14.347	904	906	909	VV	2	13327	635531	0.81%	0.083%
82	14.431	909	912	922	VV	5	14409	1381836	1.76%	0.180%
83	14.683	922	930	933	VV	4	14736	1303438	1.66%	0.170%
84	14.795	933	938	940	VV	3	15141	746588	0.95%	0.097%
85	14.879	940	944	946	VV	3	14188	678256	0.86%	0.088%
6	14.935	946	948	951	VV	2	13244	550096	0.70%	0.072%
87	15.005	951	953	956	VV	3	14018	562623	0.72%	0.073%
88	15.089	956	959	962	VV	2	14141	673084	0.86%	0.088%
89	15.159	962	964	966	VV	2	15590	517066	0.66%	0.067%
90	15.201	966	967	986	VV	3	14806	2300779	2.92%	0.300%
91	15.536	986	991	993	VV	2	14877	784341	1.00%	0.102%
92	15.578	993	994	1001	VV	3	14718	993279	1.26%	0.130%
93	15.704	1001	1003	1006	VV	2	14984	557552	0.71%	0.073%
94	15.788	1006	1009	1011	VV	2	14452	652265	0.83%	0.085%
95	15.872	1011	1015	1026	VV	4	18840	1919170	2.44%	0.250%
96	16.082	1026	1030	1031	VV	3	15989	683684	0.87%	0.089%
97	16.180	1031	1037	1055	VV		660956	20857008	26.51%	2.720%
98	16.516	1055	1061	1064	VV	3	16416	1177032	1.50%	0.154%
99	16.614	1064	1068	1072	VV	2	17075	1072398	1.36%	0.140%
100	16.712	1072	1075	1085	VV	3	15634	1583916	2.01%	0.207%
101	16.908	1085	1089	1091	VV	2	15892	749026	0.95%	0.098%
102	16.978	1091	1094	1097	VV	4	18759	932646	1.19%	0.122%
103	17.061	1097	1100	1102	VV	2	16067	690916	0.88%	0.090%
104	17.117	1102	1104	1106	VV	3	16478	459574	0.58%	0.060%
105	17.173	1106	1108	1112	VV	2	16587	841821	1.07%	0.110%
106	17.271	1112	1115	1118	VV	3	16625	766414	0.97%	0.100%
7	17.355	1118	1121	1124	VV	3	16242	819886	1.04%	0.107%
8	17.467	1124	1129	1135	VV	3	17389	1487325	1.89%	0.194%
109	17.593	1135	1138	1140	VV	2	17479	761938	0.97%	0.099%

LSC Area Percent Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06715.D
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

110	17.789	1140	1152	1160	VV		592323	17697218	22.49%	2.308%
111	17.943	1160	1163	1165	VV	3	18773	736761	0.94%	0.096%
112	17.999	1165	1167	1170	VV	2	18292	728178	0.93%	0.095%
113	18.083	1170	1173	1176	VV	3	18560	905494	1.15%	0.118%
114	18.167	1176	1179	1184	VV	4	19325	1304452	1.66%	0.170%
115	18.321	1184	1190	1194	VV	5	19394	1463944	1.86%	0.191%
116	18.419	1194	1197	1199	VV	3	19600	719999	0.92%	0.094%
117	18.559	1199	1207	1219	VV		1935624	52638000	66.90%	6.866%
118	18.741	1219	1220	1222	VV	2	20228	477753	0.61%	0.062%
119	18.810	1222	1225	1228	VV	4	20366	986667	1.25%	0.129%
120	18.880	1228	1230	1234	VV	3	20348	954877	1.21%	0.125%
121	18.964	1234	1236	1239	VV	2	19927	819721	1.04%	0.107%
122	19.034	1239	1241	1250	VV	3	19970	1776990	2.26%	0.232%
123	19.202	1250	1253	1257	VV	4	20208	1096978	1.39%	0.143%
4	19.328	1257	1262	1268	VV	4	25143	1989740	2.53%	0.260%
125	19.440	1268	1270	1275	VV	2	20413	1252188	1.59%	0.163%
126	19.538	1275	1277	1281	VV	3	20921	921192	1.17%	0.120%
127	19.664	1281	1286	1292	VV	5	21883	1798997	2.29%	0.235%
128	19.762	1292	1293	1295	VV		20256	564327	0.72%	0.074%
129	19.874	1295	1301	1303	VV	2	20592	1282466	1.63%	0.167%
130	19.916	1303	1304	1306	VV		20166	588174	0.75%	0.077%
131	19.972	1306	1308	1312	VV		20780	887422	1.13%	0.116%
132	20.056	1312	1314	1316	VV	2	19890	638944	0.81%	0.083%
133	20.112	1316	1318	1321	VV	2	20438	985768	1.25%	0.129%
134	20.196	1321	1324	1327	VV	3	21600	919105	1.17%	0.120%
135	20.252	1327	1328	1331	VV	2	21188	683929	0.87%	0.089%
136	20.308	1331	1332	1334	VV		20755	570623	0.73%	0.074%
137	20.350	1334	1335	1337	VV		20644	542837	0.69%	0.071%
138	20.406	1337	1339	1342	VV	4	21043	880386	1.12%	0.115%
139	20.476	1342	1344	1345	VV	2	20868	549810	0.70%	0.072%
140	20.559	1345	1350	1351	VV	3	21285	1047281	1.33%	0.137%
141	20.601	1351	1353	1355	VV		21206	585776	0.74%	0.076%
142	20.643	1355	1356	1359	VV	2	21484	693111	0.88%	0.090%
143	20.741	1359	1363	1365	VV	2	21509	1051749	1.34%	0.137%
144	20.811	1365	1368	1370	VV		21106	818075	1.04%	0.107%
5	20.923	1370	1376	1377	VV	4	21566	1349131	1.71%	0.176%
146	20.965	1377	1379	1381	VV	2	21649	628312	0.80%	0.082%

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06715.D
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML
ALS Vial : 22 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

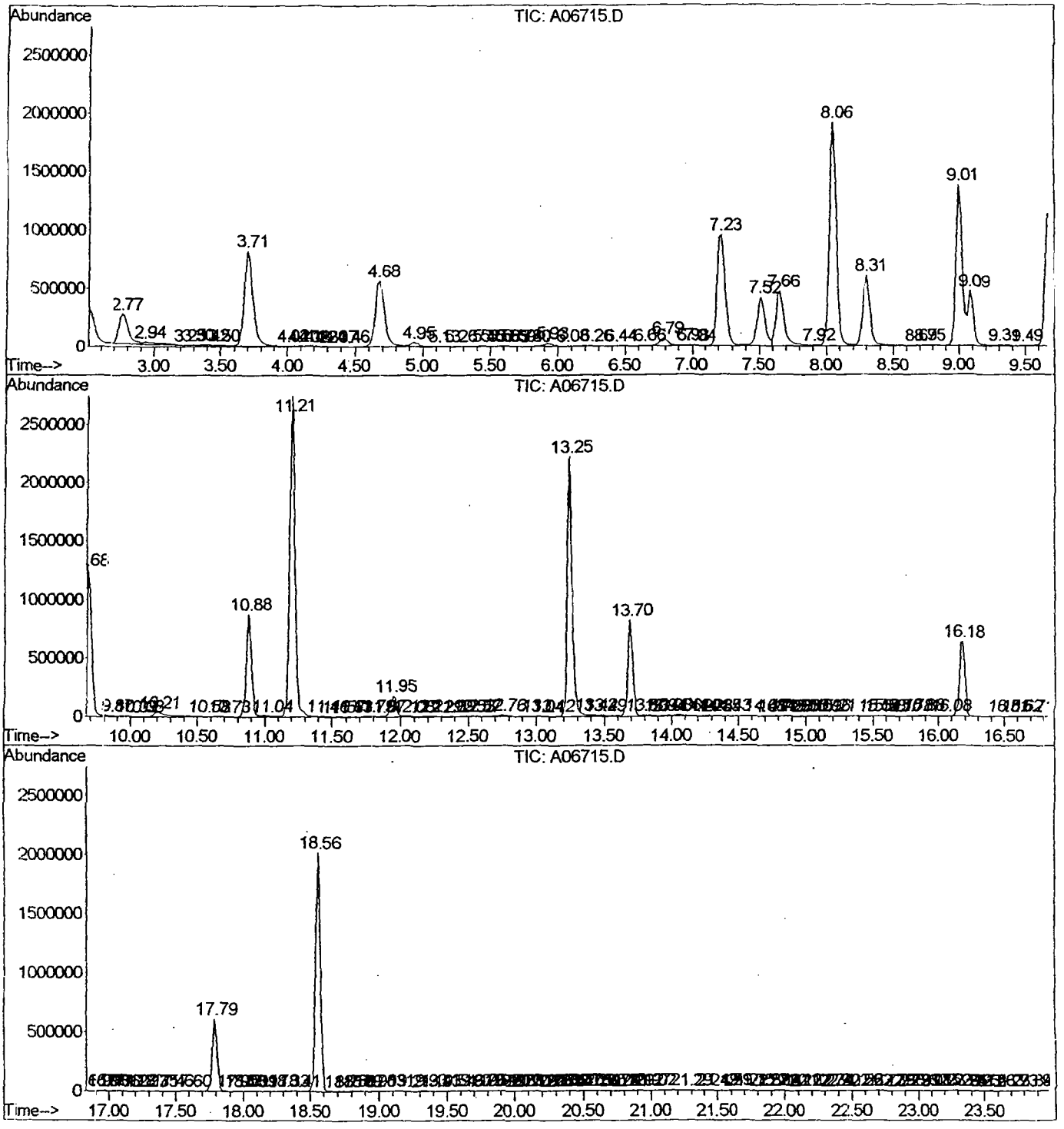
147	21.021	1381	1383	1388	VV	3	21646	1294086	1.64%	0.169%
148	21.287	1388	1402	1413	VV	4	22627	4434408	5.64%	0.578%
149	21.483	1413	1416	1420	VV	2	22909	1310455	1.67%	0.171%
150	21.581	1420	1423	1428	VV	2	22864	1486472	1.89%	0.194%
151	21.707	1428	1432	1434	VV	3	23165	1104162	1.40%	0.144%
152	21.749	1434	1435	1439	VV	2	23505	948441	1.21%	0.124%
153	21.875	1439	1444	1446	VV	2	22783	1404725	1.79%	0.183%
154	21.945	1446	1449	1452	VV		23545	1135352	1.44%	0.148%
155	22.015	1452	1454	1458	VV	3	23110	1111022	1.41%	0.145%
156	22.099	1458	1460	1463	VV	3	23677	946591	1.20%	0.123%
157	22.169	1463	1465	1467	VV	3	23668	849774	1.08%	0.111%
158	22.266	1467	1472	1476	VV	4	23563	1641459	2.09%	0.214%
159	22.336	1476	1477	1479	VV	2	23439	562604	0.72%	0.073%
160	22.392	1479	1481	1487	VV	2	24431	1673243	2.13%	0.218%
1	22.560	1487	1493	1496	VV	6	24261	1833968	2.33%	0.239%
162	22.630	1496	1498	1503	VV	2	23487	1186861	1.51%	0.155%
163	22.728	1503	1505	1507	VV	2	24855	932478	1.19%	0.122%
164	22.798	1507	1510	1514	VV	3	24301	1281798	1.63%	0.167%
165	22.882	1514	1516	1522	VV	3	24692	1729378	2.20%	0.226%
166	22.994	1522	1524	1527	VV	3	24887	903727	1.15%	0.118%
167	23.078	1527	1530	1534	VV	4	25509	1510975	1.92%	0.197%
168	23.148	1534	1535	1542	VV	3	24787	1660552	2.11%	0.217%
169	23.288	1542	1545	1548	VV	4	25508	1284309	1.63%	0.168%
170	23.344	1548	1549	1552	VV	3	25000	717583	0.91%	0.094%
171	23.400	1552	1553	1557	VV	2	25187	1092525	1.39%	0.143%
172	23.512	1557	1561	1563	VV	3	25797	1174916	1.49%	0.153%
173	23.568	1563	1565	1567	VV	2	27513	1069825	1.36%	0.140%
174	23.624	1567	1569	1574	VV	2	26180	1363660	1.73%	0.178%
175	23.736	1574	1577	1583	VV	4	26050	1877058	2.39%	0.245%
176	23.848	1583	1585	1587	VV	2	26915	998852	1.27%	0.130%
177	23.904	1587	1589	1590	VBA	2	25770	569178	0.72%	0.074%

Sum of corrected areas: 766676564

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06715.D
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Library Search Compound Report

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06715.D
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML
ALS Vial : 22 Sample Multiplier: 1

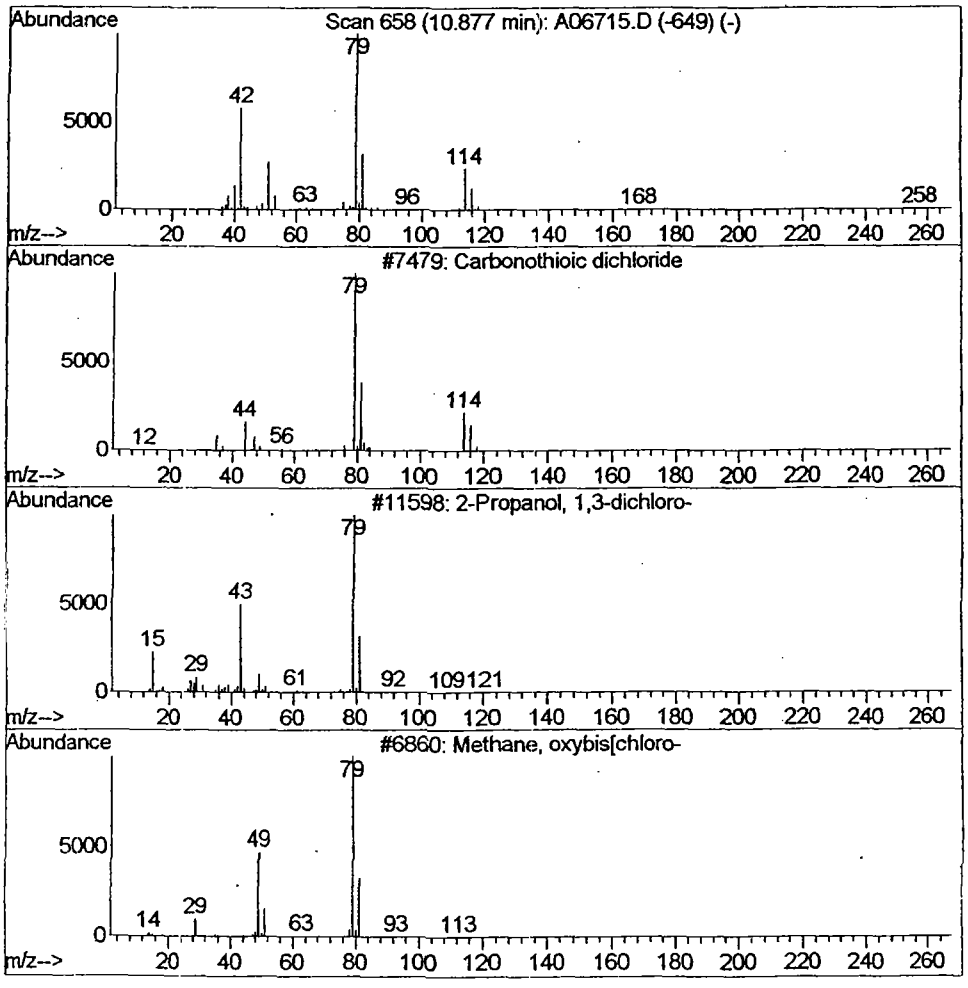
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

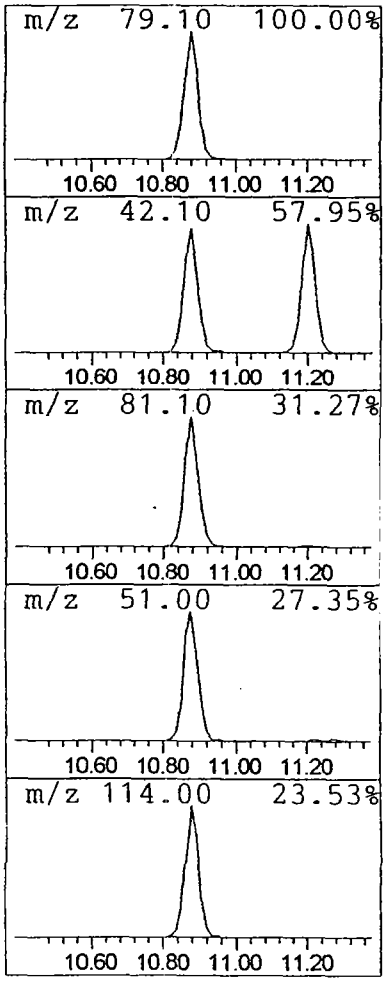
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.88	8.17 ug/L	25370400	1,4-Difluorobenzene	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	38
2	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
4	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	9





Tentatively Identified Compound (LSC) Summary

Data Path : C:\MSDCHEM\1\A-5973\
Data File : A06715.D
Acq On : 12/14/06 22:54 Operator: SB
Sample : E2P52DL Inst : A-5973
Misc : S-0350.18DL 10X 25ML
ALS Vial : 22 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Carbonothioic dic...	10.88	8.2	ug/L	25370400	1	9.09	15533400	5.0

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

EPA SAMPLE NO.
VBLKDV

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

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

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06728

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

% Moisture: not dec. _____ Date Analyzed: 12/15/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.57 ~~0.76~~	
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
VBLKDV

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

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

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06728

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

% Moisture: not dec. _____ Date Analyzed: 12/15/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.36 ~~0.36~~	J

ST 1-19-07

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
VBLKDV

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

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

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06728

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

% Moisture: not dec. _____ Date Analyzed: 12/15/2006

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.88	8.0	J
02		Unknown-02	15.48	3.2	J
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	0	

[1] EPA-designated Registry Number.

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\A-5973\A06728.D
Acq On : 12/15/06 07:38
Sample : VBLKDV
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

Operator: SB
Inst : A-5973

ORIGINAL
Case 35998 SDG: C2P18
Episode 5-0350 init/date 12/15/06

Quant Time: Dec 19 14:33:21 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 17:51:30 2006
Response via : Initial Calibration

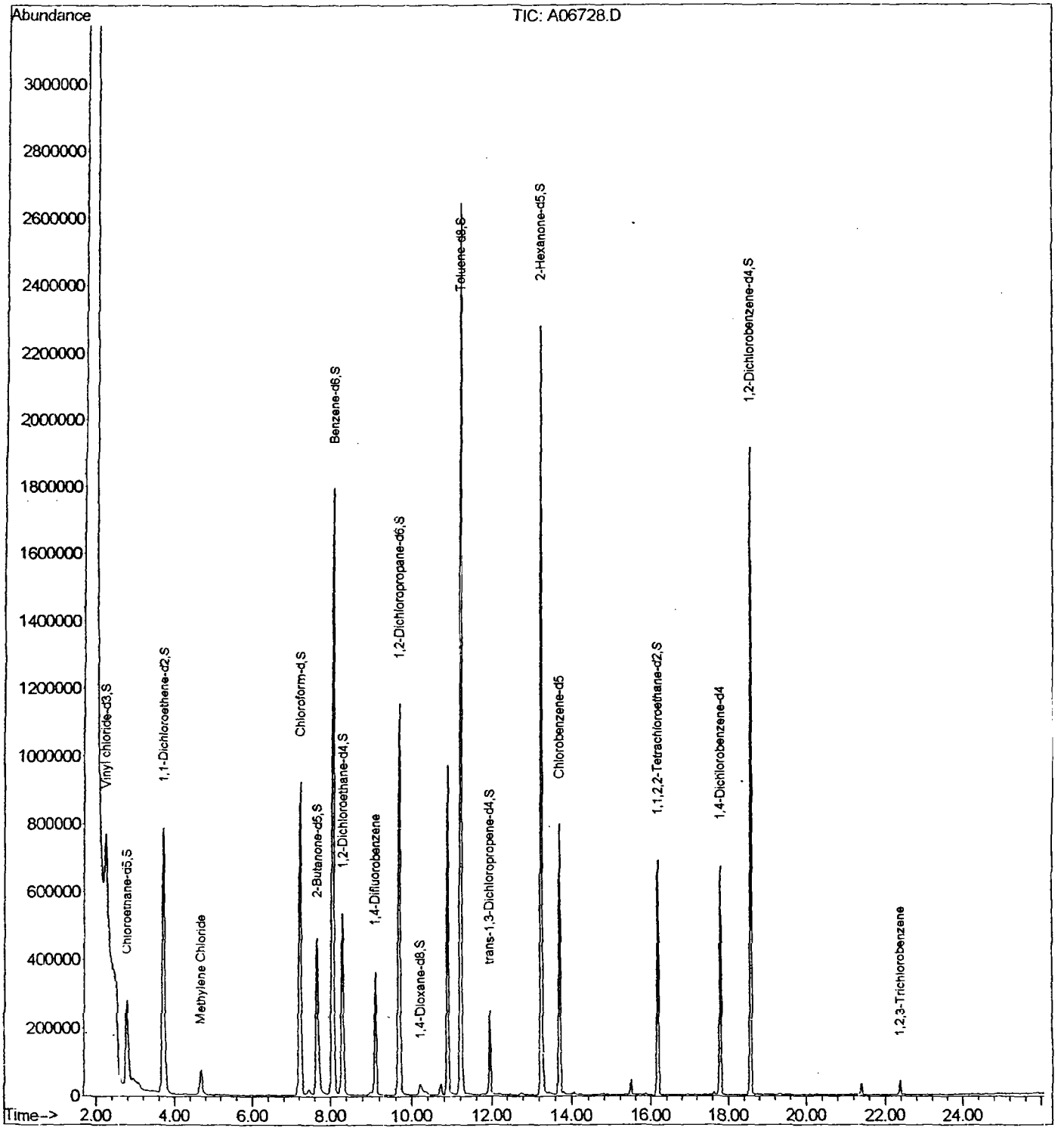
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	9.09	114	4666691	5.00 ug/L	0.00
30) Chlorobenzene-d5	13.70	117	6594246	5.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	17.79	152	2597981	5.00 ug/L	0.00
System Monitoring Compounds					
4) Vinyl chloride-d3	2.25	65	7887289	5.59 ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery = 111.80%		
7) Chloroethane-d5	2.77	69	5603547	5.39 ug/L	-0.01
Spiked Amount 5.000	Range 71 - 131		Recovery = 107.80%		
10) 1,1-Dichloroethene-d2	3.70	63	13472700	4.52 ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery = 90.40%		
21) 2-Butanone-d5	7.66	46	13829360	61.19 ug/L	0.00
Spiked Amount 50.000	Range 49 - 155		Recovery = 122.38%		
24) Chloroform-d	7.23	84	14007114	5.08 ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery = 101.60%		
26) 1,2-Dichloroethane-d4	8.30	65	7300582	5.14 ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery = 102.80%		
28) 1,4-Dioxane-d8	10.21	96	565100	270.35 ug/L	0.00
Spiked Amount 250.000	Range 50 - 150		Recovery = 108.14%		
34) Benzene-d6	8.05	84	29762181	4.83 ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery = 96.60%		
38) 1,2-Dichloropropane-d6	9.68	67	8550639	4.75 ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery = 95.00%		
43) Toluene-d8	11.21	98	26675058	5.21 ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery = 104.20%		
45) trans-1,3-Dichloropropene-	11.95	79	1925052	4.41 ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery = 88.20%		
49) 2-Hexanone-d5	13.25	63	10110471	59.52 ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery = 119.04%		
59) 1,1,2,2-Tetrachloroethane-	16.18	84	5864058	4.62 ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery = 92.40%		
65) 1,2-Dichlorobenzene-d4	18.56	152	7819142	5.62 ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery = 112.40%		
Target Compounds					Qvalue
16) Methylene Chloride	4.68	84	689472	0.57 ug/L #	68
69) 1,2,3-Trichlorobenzene	22.38	180	208033	0.38 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

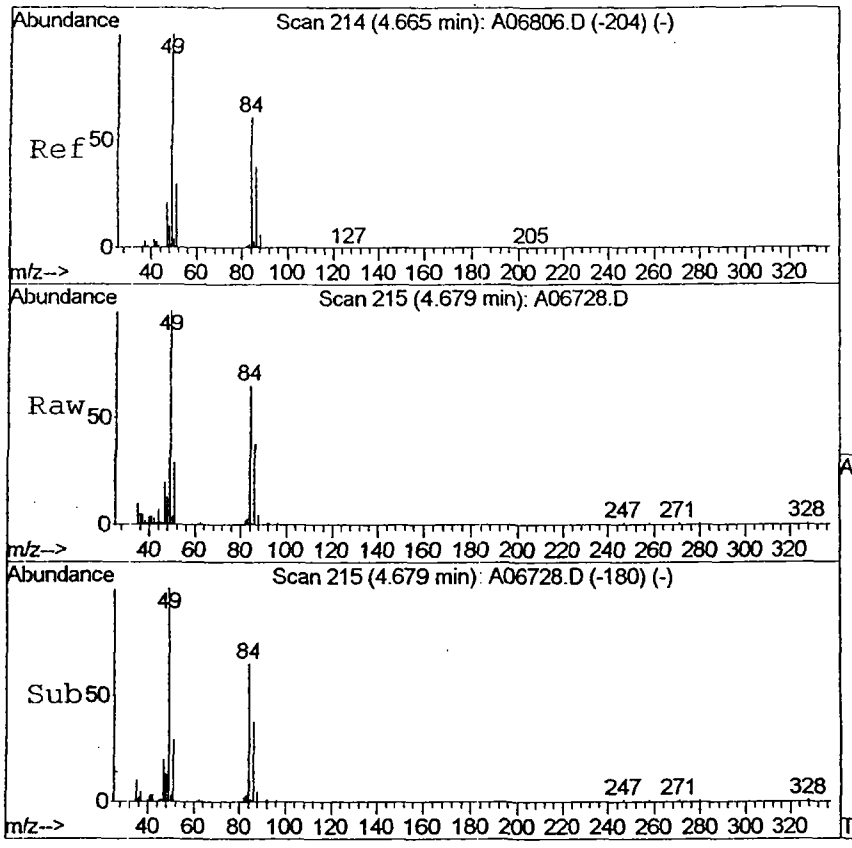
Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\A-5973\A06728.D
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 19 14:33:21 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Fri Dec 15 17:51:30 2006
Response via : Initial Calibration

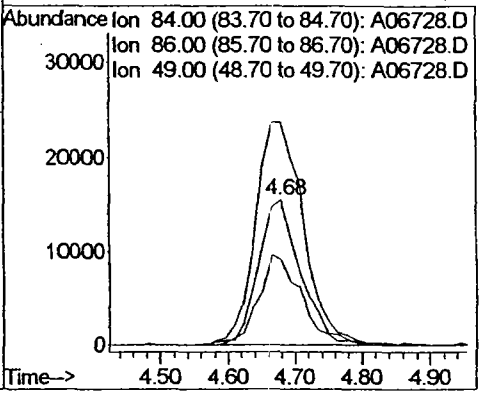


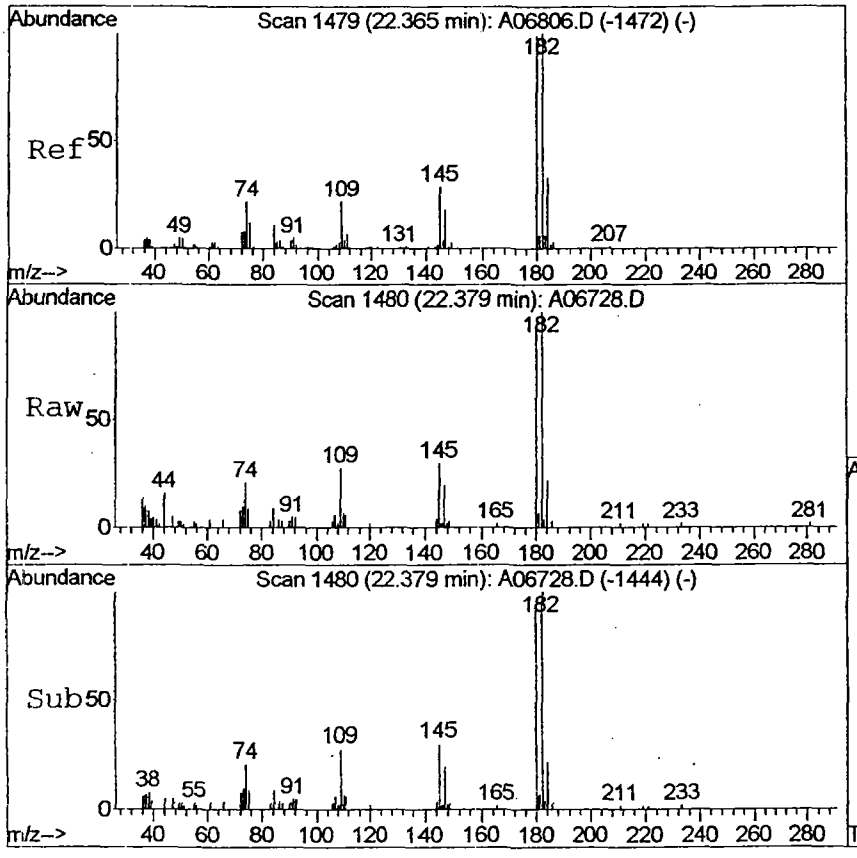
Data File : C:\MSDChem\1\A-5973\A06728.D Vial: 2
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#16
Methylene Chloride
Concen: 0.57 ug/L
RT: 4.68 min Scan# 215
Delta R.T. -0.01 min
Integration Range:
Scan=206 to 225
R.T.= 4.55 to 4.82 (min)
Tgt Ion: 84 Resp: 689472

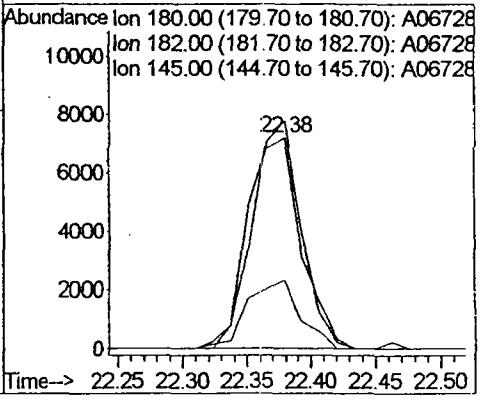
Ion	Ratio	Lower	Upper
84	100		
86	61.4	51.6	77.4
49	173.5	97.1	145.7#





#69
1,2,3-Trichlorobenzene
Concen: 0.38 ug/L
RT: 22.38 min Scan# 1480
Delta R.T. -0.00 min
Integration Range:
Scan=1475 to 1485
R.T.= 22.31 to 22.45 (min)
Tgt Ion:180 Resp: 208033

Ion	Ratio	Lower	Upper
180	100		
182	99.7	76.2	114.2
145	32.2	24.6	36.8



LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06728.D
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.244	36	41	72	BV 2	225038	10931556	8.31%	0.268%
2	2.776	72	79	88	PV	242471	12611275	9.58%	0.309%
3	2.930	88	90	99	VV 9	24327	1719075	1.31%	0.042%
4	3.070	99	100	113	VV 3	17192	756123	0.57%	0.019%
5	3.266	113	114	121	PV 7	2157	84588	0.06%	0.002%
6	3.448	121	127	129	VV 7	5620	213010	0.16%	0.005%
7	3.504	129	131	138	VV 6	6136	348747	0.27%	0.009%
8	3.699	138	145	165	VV	780452	38633904	29.36%	0.946%
9	3.993	165	166	169	VV 2	14974	451560	0.34%	0.011%
10	4.063	169	171	176	VV 2	14214	749907	0.57%	0.018%
1	4.147	176	177	182	VV 3	15177	824669	0.63%	0.020%
12	4.259	182	185	191	VV 5	19214	1521489	1.16%	0.037%
13	4.385	191	194	198	VV 3	22450	1252985	0.95%	0.031%
14	4.497	198	202	203	VV 2	24746	1032296	0.78%	0.025%
15	4.679	203	215	230	VV	101265	10266257	7.80%	0.251%
16	4.945	230	234	238	VV 4	38221	2715084	2.06%	0.066%
17	5.071	238	243	247	VV 3	41896	2989113	2.27%	0.073%
18	5.155	247	249	252	VV 3	43900	1846531	1.40%	0.045%
19	5.225	252	254	257	VV	45068	1719610	1.31%	0.042%
20	5.294	257	259	269	VV 2	47495	4746638	3.61%	0.116%
21	5.532	269	276	279	VV 5	54651	4447143	3.38%	0.109%
22	5.602	279	281	283	VV 3	55210	1858021	1.41%	0.045%
23	5.714	283	289	294	VV 3	58544	5259469	4.00%	0.129%
24	5.798	294	295	300	VV 3	61061	3423470	2.60%	0.084%
25	5.994	300	309	312	VV 3	67408	6632357	5.04%	0.162%
26	6.064	312	314	319	VV 2	67809	3571041	2.71%	0.087%
27	6.148	319	320	326	VV 2	71363	4455060	3.39%	0.109%
28	6.260	326	328	333	VV	74595	4409316	3.35%	0.108%
29	6.358	333	335	337	VV 3	77368	2298705	1.75%	0.056%
30	6.428	337	340	342	VV 3	79965	3670307	2.79%	0.090%
31	6.484	342	344	345	VV 2	80280	2025782	1.54%	0.050%
32	6.540	345	348	350	VV 2	81726	2998667	2.28%	0.073%
33	6.610	350	353	356	VV 3	84265	4614708	3.51%	0.113%
34	6.680	356	358	362	VV 3	85671	3793029	2.88%	0.093%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06728.D
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

35	6.792	362	366	368	VV	2	90339	4704663	3.58%	0.115%
36	6.890	368	373	377	VV	2	92945	6811590	5.18%	0.167%
37	6.974	377	379	384	VV	3	94272	6074397	4.62%	0.149%
38	7.085	384	387	389	VV	3	98478	3393086	2.58%	0.083%
39	7.225	389	397	408	VV		1008068	52362182	39.80%	1.282%
40	7.463	408	414	420	VV	6	123619	12100477	9.20%	0.296%
41	7.659	420	428	446	VV		571155	46475975	35.32%	1.138%
42	8.051	446	456	467	VV		1874904	88300529	67.11%	2.162%
43	8.303	467	474	485	VV		672574	40490503	30.77%	0.991%
44	8.499	485	488	497	VV	5	141419	13904068	10.57%	0.340%
45	8.694	497	502	505	VV	4	145474	9848265	7.48%	0.241%
46	8.806	505	510	514	VV	4	148044	11371408	8.64%	0.278%
47	8.988	514	523	525	VV	6	160089	13648282	10.37%	0.334%
48	9.086	525	530	541	VV		502103	33644366	25.57%	0.824%
49	9.254	541	542	547	VV	3	161915	8460014	6.43%	0.207%
50	9.352	547	549	551	VV	2	164143	4809769	3.66%	0.118%
51	9.436	551	555	558	VV	3	166470	9185056	6.98%	0.225%
52	9.548	558	563	564	VV	2	169433	9203019	6.99%	0.225%
53	9.674	564	572	583	VV		1281906	66438289	50.49%	1.627%
54	9.842	583	584	587	VV	3	181358	6348998	4.83%	0.155%
55	9.912	587	589	595	VV	3	181080	11445168	8.70%	0.280%
56	10.024	595	597	599	VV	3	182970	6201658	4.71%	0.152%
57	10.080	599	601	603	VV	2	184734	6030045	4.58%	0.148%
58	10.206	603	610	618	VV		218727	26376783	20.05%	0.646%
59	10.346	618	620	628	VV	5	202122	15975887	12.14%	0.391%
60	10.527	628	633	642	VV	4	198720	23705739	18.02%	0.580%
61	10.723	642	647	652	VV	2	233681	18133074	13.78%	0.444%
62	10.877	652	658	667	VV		1149287	54068866	41.09%	1.324%
63	11.017	667	668	675	VV	5	216200	13438072	10.21%	0.329%
64	11.213	675	682	706	VV		2730906	131576287	100.00%	3.222%
65	11.563	706	707	709	VV		229075	7083617	5.38%	0.173%
66	11.619	709	711	716	VV	4	228863	13890215	10.56%	0.340%
67	11.787	716	723	726	VV	5	236077	18881551	14.35%	0.462%
68	11.955	726	735	745	VV		472252	45177990	34.34%	1.106%
69	12.123	745	747	748	VV	2	244120	6390643	4.86%	0.156%
70	12.220	748	754	759	VV	5	250202	21552748	16.38%	0.528%
71	12.332	759	762	768	VV	4	250608	18938487	14.39%	0.464%

LSC Area Percent Report

Data Path : C:\MSDChem\1\A-5973\
Data File : A06728.D
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

72	12.472	768	772	775	VV	4	254739	16496353	12.54%	0.404%
73	12.528	775	776	779	VV	3	255671	6778413	5.15%	0.166%
74	12.612	779	782	784	VV	2	257640	12745488	9.69%	0.312%
75	12.766	784	793	799	VV	5	267459	31315755	23.80%	0.767%
76	12.864	799	800	802	VV		264946	6938870	5.27%	0.170%
77	12.920	802	804	806	VV	2	266696	9048633	6.88%	0.222%
78	12.976	806	808	809	VV	2	267594	7871150	5.98%	0.193%
79	13.060	809	814	816	VV	3	270460	14888662	11.32%	0.365%
80	13.116	816	818	821	VV	3	272165	12160728	9.24%	0.298%
81	13.242	821	827	840	VV		2443199	100581923	76.44%	2.463%
82	13.452	840	842	843	VV	2	289552	9042020	6.87%	0.221%
83	13.494	843	845	854	VV	6	288469	25294337	19.22%	0.619%
84	13.690	854	859	865	VV		1033535	48070984	36.53%	1.177%
85	13.802	865	867	876	VV	4	299506	25894357	19.68%	0.634%
86	13.955	876	878	879	VV	2	297283	9376572	7.13%	0.230%
87	14.067	879	886	895	VV	6	306748	40049823	30.44%	0.981%
88	14.221	895	897	899	VV	3	305613	10345569	7.86%	0.253%
89	14.263	899	900	903	VV	2	305242	10086923	7.67%	0.247%
90	14.333	903	905	909	VV	3	307257	15341750	11.66%	0.376%
91	14.445	909	913	925	VV	4	310140	41304008	31.39%	1.011%
92	14.669	925	929	932	VV		316450	19322627	14.69%	0.473%
93	14.781	932	937	941	VV	4	323162	22883854	17.39%	0.560%
94	14.879	941	944	948	VV	3	325439	21081169	16.02%	0.516%
95	14.991	948	952	953	VV	3	325638	13230277	10.06%	0.324%
96	15.033	953	955	958	VV	3	326768	12419173	9.44%	0.304%
97	15.131	958	962	964	VV	4	329988	16218095	12.33%	0.397%
98	15.187	964	966	968	VV	3	331112	12136741	9.22%	0.297%
99	15.341	968	977	982	VV	3	337596	40018451	30.41%	0.980%
100	15.481	982	987	993	VV		382020	30554295	23.22%	0.748%
101	15.578	993	994	1002	VV	3	343325	27773836	21.11%	0.680%
102	15.718	1002	1004	1007	VV		347275	12685178	9.64%	0.311%
103	15.872	1007	1015	1023	VV	5	355030	48054554	36.52%	1.177%
104	16.012	1023	1025	1030	VV	3	355116	20911860	15.89%	0.512%
105	16.180	1030	1037	1046	VV		1059524	67120300	51.01%	1.643%
106	16.334	1046	1048	1052	VV	3	364821	19651472	14.94%	0.481%
107	16.460	1052	1057	1060	VV	5	369271	23989580	18.23%	0.587%
108	16.530	1060	1062	1068	VV	3	370813	24768143	18.82%	0.606%
109	16.642	1068	1070	1073	VV	3	373351	17087326	12.99%	0.418%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06728.D
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

110	16.712	1073	1075	1084	VV	2	374939	34507073	26.23%	0.845%
111	16.894	1084	1088	1090	VV	3	380930	17889037	13.60%	0.438%
112	16.964	1090	1093	1099	VV	3	385262	30730782	23.36%	0.752%
113	17.132	1099	1105	1112	VV	4	388624	42569123	32.35%	1.042%
114	17.258	1112	1114	1116	VV	2	390782	10592124	8.05%	0.259%
115	17.299	1116	1117	1120	VV		392298	15649614	11.89%	0.383%
116	17.383	1120	1123	1127	VV		395530	22382654	17.01%	0.548%
117	17.467	1127	1129	1131	VV		397280	14455315	10.99%	0.354%
118	17.537	1131	1134	1137	VV	2	399039	17531481	13.32%	0.429%
119	17.649	1137	1142	1146	VV	4	409596	31690363	24.09%	0.776%
120	17.789	1146	1152	1162	VV		1040147	72116918	54.81%	1.766%
121	17.957	1162	1164	1166	VV	2	412308	14403135	10.95%	0.353%
122	18.013	1166	1168	1169	VV	2	413089	10293587	7.82%	0.252%
123	18.055	1169	1171	1175	VV	3	415097	18334391	13.93%	0.449%
4	18.167	1175	1179	1189	VV	4	417961	50152437	38.12%	1.228%
25	18.335	1189	1191	1193	VV	2	422918	15801133	12.01%	0.387%
126	18.391	1193	1195	1198	VV	2	424775	16058713	12.20%	0.393%
127	18.461	1198	1200	1201	VV	2	426076	12512722	9.51%	0.306%
128	18.559	1201	1207	1217	VV		2236890	105672804	80.31%	2.587%
129	18.755	1217	1221	1227	VV	4	437813	35325691	26.85%	0.865%
130	18.867	1227	1229	1230	VV	2	438989	13464260	10.23%	0.330%
131	18.937	1230	1234	1239	VV	4	440984	32569006	24.75%	0.797%
132	19.034	1239	1241	1247	VV	5	443542	28688125	21.80%	0.702%
133	19.146	1247	1249	1253	VV	2	447064	20976196	15.94%	0.514%
134	19.328	1253	1262	1267	VV	5	454201	55486136	42.17%	1.359%
135	19.468	1267	1272	1276	VV	3	455742	33570028	25.51%	0.822%
136	19.552	1276	1278	1284	VV	3	457821	28625518	21.76%	0.701%
137	19.720	1284	1290	1301	VV	4	463177	68534796	52.09%	1.678%
138	19.930	1301	1305	1314	VV	5	469225	51766676	39.34%	1.268%
139	20.098	1314	1317	1320	VV	3	475091	23562225	17.91%	0.577%
140	20.168	1320	1322	1324	VV	2	475073	13432191	10.21%	0.329%
141	20.224	1324	1326	1334	VV	2	477874	41249725	31.35%	1.010%
142	20.378	1334	1337	1340	VV	2	481776	24996642	19.00%	0.612%
143	20.448	1340	1342	1349	VV	4	483457	37944699	28.84%	0.929%
144	20.644	1349	1356	1359	VV	3	490163	38370823	29.16%	0.940%
5	20.714	1359	1361	1363	VV	2	491615	18028084	13.70%	0.441%
146	20.839	1363	1370	1371	VV	4	495678	34093428	25.91%	0.835%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06728.D
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

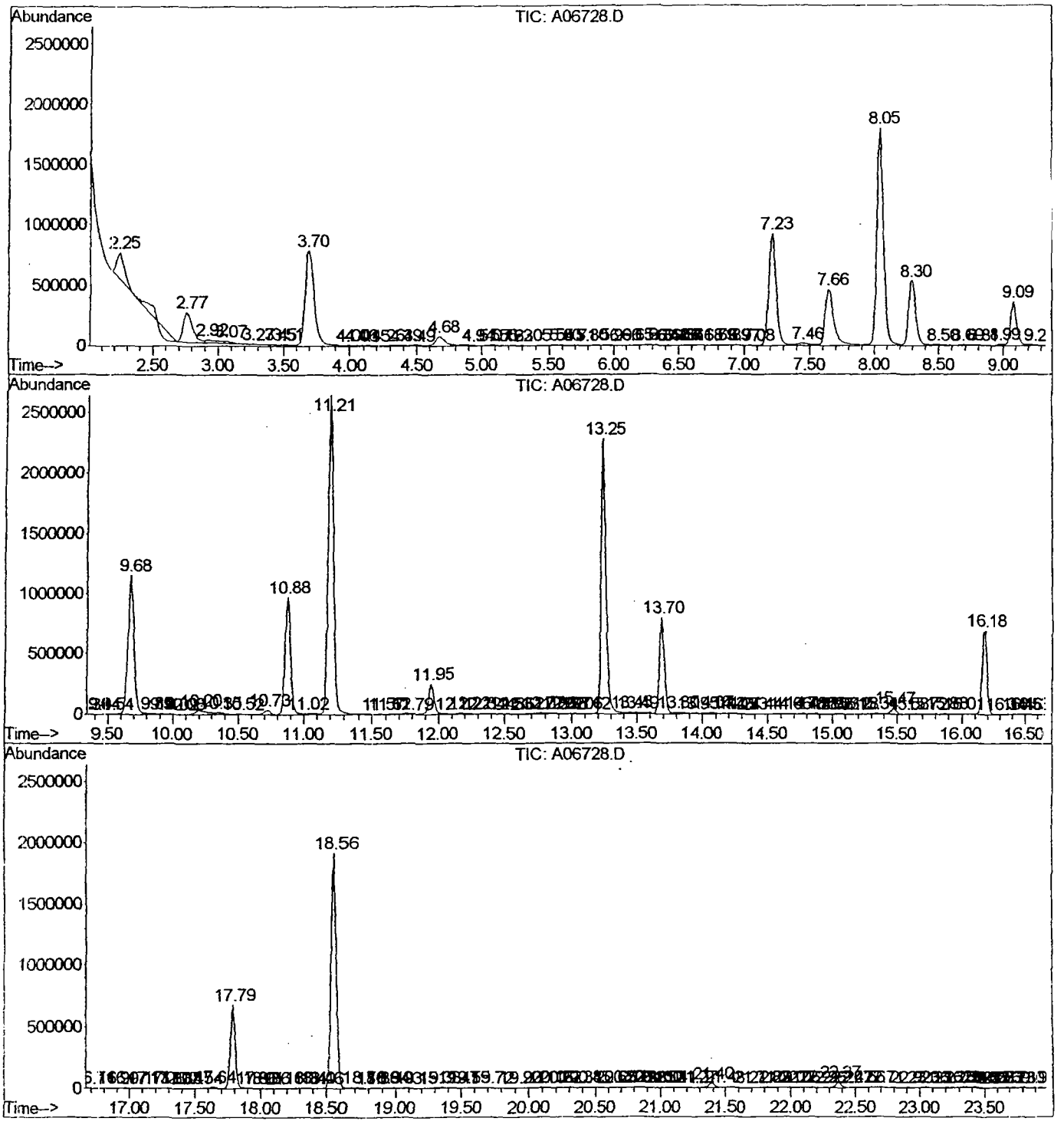
147	20.881	1371	1373	1376	VV	3	496280	20793357	15.80%	0.509%
148	20.951	1376	1378	1379	VV		497896	13045132	9.91%	0.319%
149	20.993	1379	1381	1383	VV	3	499587	14760791	11.22%	0.361%
150	21.035	1383	1384	1386	VV	2	500686	12292654	9.34%	0.301%
151	21.105	1386	1389	1395	VV	4	503061	40384952	30.69%	0.989%
152	21.259	1395	1400	1404	VV	5	508045	35441439	26.94%	0.868%
153	21.399	1404	1410	1415	VV	3	542621	48162664	36.60%	1.179%
154	21.483	1415	1416	1422	VV	3	513598	31240591	23.74%	0.765%
155	21.707	1422	1432	1436	VV	5	520524	61794946	46.97%	1.513%
156	21.833	1436	1441	1444	VV	3	524279	35821149	27.22%	0.877%
157	21.917	1444	1447	1449	VV	2	526561	19822141	15.07%	0.485%
158	22.015	1449	1454	1456	VV	3	529913	29447768	22.38%	0.721%
159	22.057	1456	1457	1466	VV	5	530753	45551197	34.62%	1.115%
160	22.211	1466	1468	1470	VV	3	535593	19673244	14.95%	0.482%
1	22.267	1470	1472	1475	VV	4	536274	21519318	16.36%	0.527%
162	22.379	1475	1480	1484	VV	2	579549	44303974	33.67%	1.085%
163	22.462	1484	1486	1490	VV	2	542550	27331380	20.77%	0.669%
164	22.560	1490	1493	1500	VV	3	545630	45094839	34.27%	1.104%
165	22.714	1500	1504	1508	VV	4	549898	35836111	27.24%	0.877%
166	22.924	1508	1519	1522	VV	4	557037	63562603	48.31%	1.556%
167	23.064	1522	1529	1533	VV	4	560661	51829517	39.39%	1.269%
168	23.162	1533	1536	1537	VV	2	561641	21430983	16.29%	0.525%
169	23.260	1537	1543	1547	VV	3	566057	45487046	34.57%	1.114%
170	23.344	1547	1549	1552	VV	3	568457	23569917	17.91%	0.577%
171	23.428	1552	1555	1557	VV		572165	23401034	17.79%	0.573%
172	23.470	1557	1558	1560	VV	2	572517	17597086	13.37%	0.431%
173	23.526	1560	1562	1563	VV		572812	14000681	10.64%	0.343%
174	23.568	1563	1565	1568	VV	3	574465	21177744	16.10%	0.519%
175	23.638	1568	1570	1572	VV	3	576842	20289809	15.42%	0.497%
176	23.694	1572	1574	1575	VV	2	579095	15406765	11.71%	0.377%
177	23.736	1575	1577	1579	VV	3	580002	16640586	12.65%	0.407%
178	23.806	1579	1582	1587	VV	4	582778	39775953	30.23%	0.974%
179	23.904	1587	1589	1590	VBA	2	584956	14779742	11.23%	0.362%

Sum of corrected areas: 4084147269

Data Path : C:\MSDChem\1\A-5973\
Data File : A06728.D
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e



Data Path : C:\MSDChem\1\A-5973\
Data File : A06728.D
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

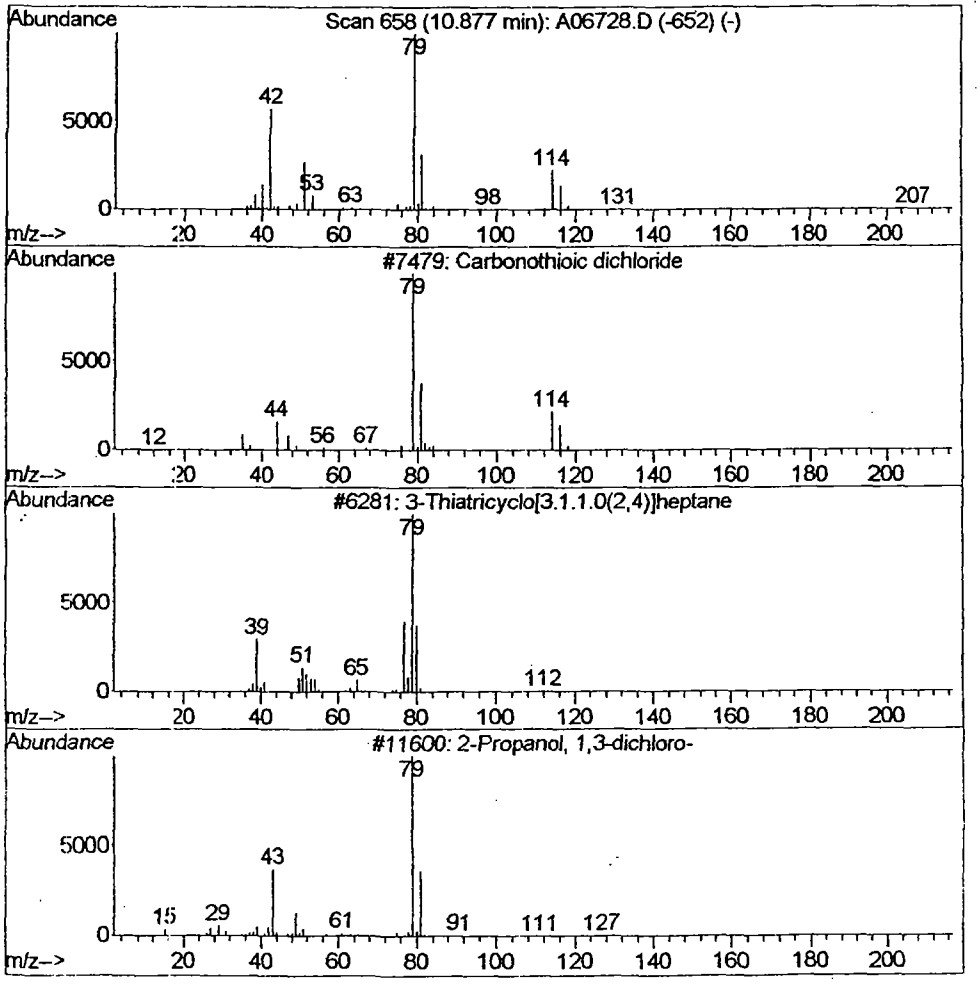
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

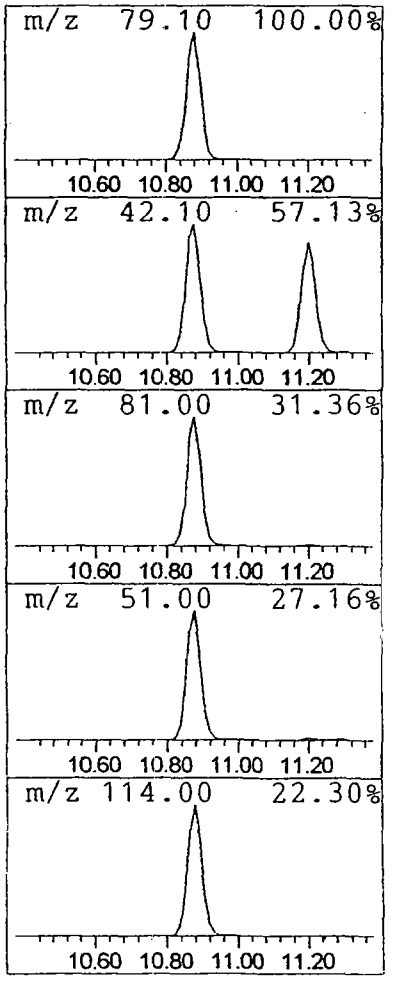
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.88	8.04 ug/L	54068900	1,4-Difluorobenzene	9.09

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	25
3	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
4	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
5	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23





Data Path : C:\MSDChem\1\A-5973\
Data File : A06728.D
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

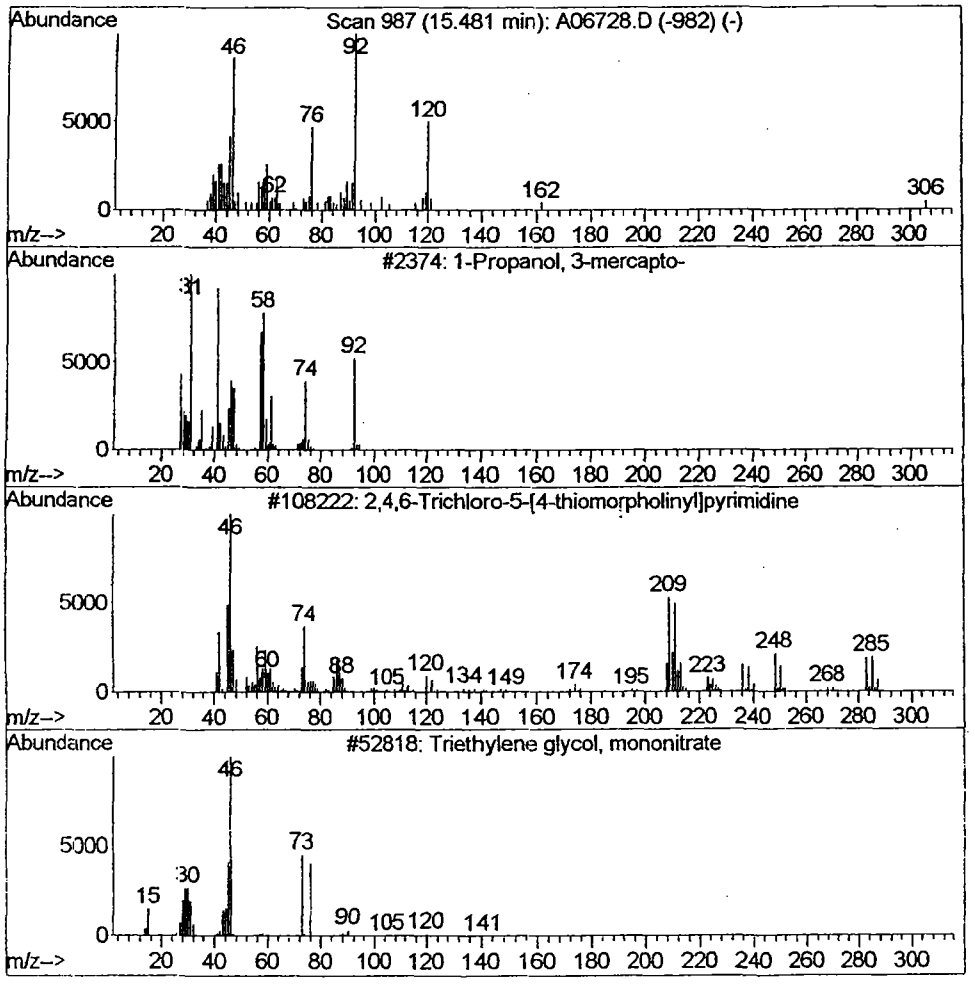
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

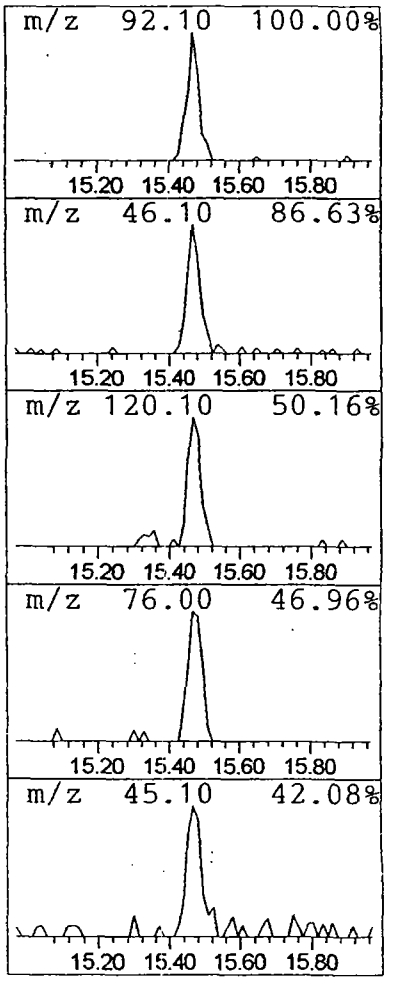
****

Peak Number 2 1-Propanol, 3-mercapto- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.47	3.18 ug/L	30554300	Chlorobenzene-d5	13.70

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol, 3-mercapto-	92	C3H8OS	019721-22-3	47
2	2,4,6-Trichloro-5-[4-thiomorphol...	283	C8H8Cl3N3S	1000212-54-8	17
3	Triethylene glycol, mononitrate	195	C6H13NO6	020600-87-7	17
4	Thiazolidin-4-one, 2-imino-3-(4-...	229	C5H3N5O4S	1000269-67-7	14
5	1,3-Dithiane	120	C4H8S2	000505-23-7	14





Tentatively Identified Compound (LSC) Summary

Data Path : C:\MSDChem\1\A-5973\
Data File : A06728.D
Acq On : 12/15/06 07:38 Operator: SB
Sample : VBLKDV Inst : A-5973
Misc : VBLKDV 25ML
ALS Vial : 2 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Carbonothioic dic...	10.88	8.0	ug/L	54068900	1	9.09	33644400	5.0
1-Propanol, 3-mer...	15.47	3.2	ug/L	30554300	2	13.70	48071000	5.0

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

EPA SAMPLE NO.
VBLKEE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

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

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06808

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

% Moisture: not dec. _____ Date Analyzed: 12/18/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
75-71-8	Dichlorodifluoromethane	0.50	U
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-35-4	1,1-Dichloroethene	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U
67-64-1	Acetone	5.0	U
75-15-0	Carbon disulfide	0.50	U
79-20-9	Methyl acetate	0.50	U
75-09-2	Methylene chloride	0.40 ~~0.53~~	J
156-60-5	trans-1,2-Dichloroethene	0.50	U
1634-04-4	Methyl tert-butyl ether	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
123-91-1	1,4-Dioxane	20	U

SR
1-19-07

SOM01.1 (5/2005)

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

EPA SAMPLE NO.
VBLKEE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

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

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06808

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

% Moisture: not dec. _____ Date Analyzed: 12/18/2006

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

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

Purge Volume: 25.0 (mL)

CAS No.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
79-01-6	Trichloroethene	0.50	U
108-87-2	Methylcyclohexane	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
75-27-4	Bromodichloromethane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-10-1	4-Methyl-2-pentanone	5.0	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
591-78-6	2-Hexanone	5.0	U
124-48-1	Dibromochloromethane	0.50	U
106-93-4	1,2-Dibromoethane	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
95-47-6	o-Xylene	0.50	U
179601-23-1	m,p-Xylene	0.50	U
100-42-5	Styrene	0.50	U
75-25-2	Bromoform	0.50	U
98-82-8	Isopropylbenzene	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	U

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

EPA SAMPLE NO.
VBLKEE

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P18

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

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: A06808

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

% Moisture: not dec. _____ Date Analyzed: 12/18/2006

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

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

CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Purge Volume: 25.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	10.87	11	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	0	

[1] EPA-designated Registry Number.

SOM01.1 (5/2005)

Quantitation Report (QT Reviewed)

Data File: C:\MSDChem\1\A-5973\A06808.D
Acq On : 12/18/06 13:45
Sample : VBLKEE
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

Operator: SB
Inst : A-5973

ORIGINAL
Case: 35998 SDG: E2p18
Episode: S-0350 Init/date: [illegible]

Quant Time: Dec 19 13:45:38 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Tue Dec 19 13:44:00 2006
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-Difluorobenzene	9.08	114	3997957	5.00 ug/L	0.00
30) Chlorobenzene-d5	13.68	117	5655837	5.00 ug/L	0.00
61) 1,4-Dichlorobenzene-d4	17.78	152	2106970	5.00 ug/L	0.00

System Monitoring Compounds

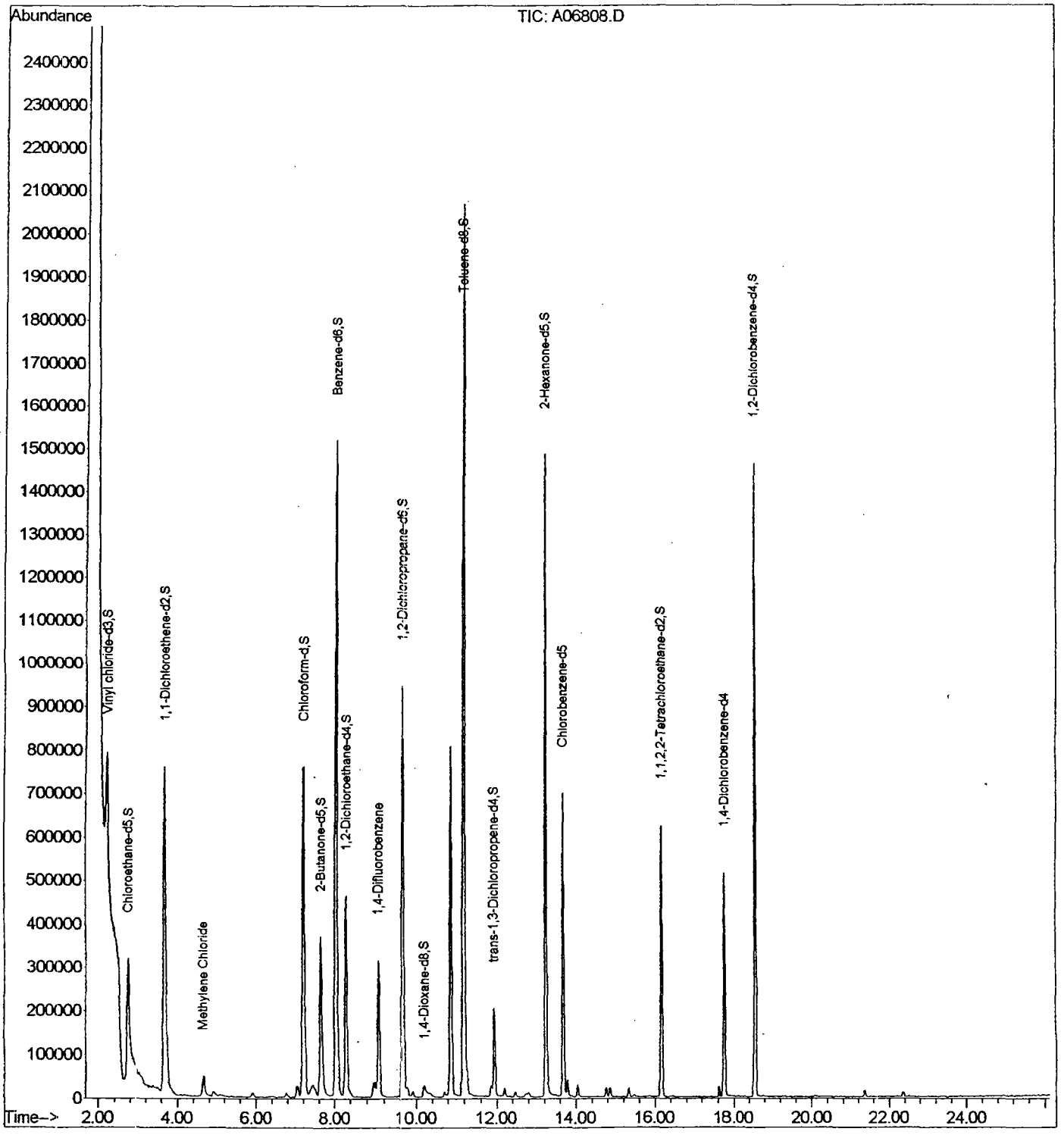
4) Vinyl chloride-d3	2.23	65	7741971	6.40 ug/L	0.00
Spiked Amount 5.000	Range 65 - 131		Recovery =	128.00%	
7) Chloroethane-d5	2.75	69	5531912	6.21 ug/L	0.00
Spiked Amount 5.000	Range 71 - 131		Recovery =	124.20%	
10) 1,1-Dichloroethene-d2	3.68	63	12104332	4.74 ug/L	0.00
Spiked Amount 5.000	Range 55 - 104		Recovery =	94.80%	
21) 2-Butanone-d5	7.65	46	10293987	53.16 ug/L	0.01
Spiked Amount 50.000	Range 49 - 155		Recovery =	106.32%	
24) Chloroform-d	7.21	84	11729455	4.96 ug/L	0.00
Spiked Amount 5.000	Range 78 - 121		Recovery =	99.20%	
26) 1,2-Dichloroethane-d4	8.29	65	6274890	5.15 ug/L	0.00
Spiked Amount 5.000	Range 78 - 129		Recovery =	103.00%	
28) 1,4-Dioxane-d8	10.20	96	491715	274.59 ug/L	0.00
Spiked Amount 250.000	Range 50 - 150		Recovery =	109.84%	
34) Benzene-d6	8.04	84	24110643	4.57 ug/L	0.00
Spiked Amount 5.000	Range 77 - 124		Recovery =	91.40%	
38) 1,2-Dichloropropane-d6	9.67	67	6869483	4.45 ug/L	0.00
Spiked Amount 5.000	Range 79 - 124		Recovery =	89.00%	
43) Toluene-d8	11.19	98	20747689	4.73 ug/L	0.00
Spiked Amount 5.000	Range 77 - 121		Recovery =	94.60%	
45) trans-1,3-Dichloropropene-	11.94	79	1605618	4.29 ug/L	0.00
Spiked Amount 5.000	Range 73 - 121		Recovery =	85.80%	
49) 2-Hexanone-d5	13.24	63	6153348	42.23 ug/L	0.00
Spiked Amount 50.000	Range 28 - 135		Recovery =	84.46%	
59) 1,1,2,2-Tetrachloroethane-	16.17	84	5036979	4.62 ug/L	0.00
Spiked Amount 5.000	Range 73 - 125		Recovery =	92.40%	
65) 1,2-Dichlorobenzene-d4	18.55	152	5824933	5.17 ug/L	0.00
Spiked Amount 5.000	Range 80 - 131		Recovery =	103.40%	

Target Compounds					Qvalue
16) Methylene Chloride	4.66	84	415546	0.40 ug/L #	68

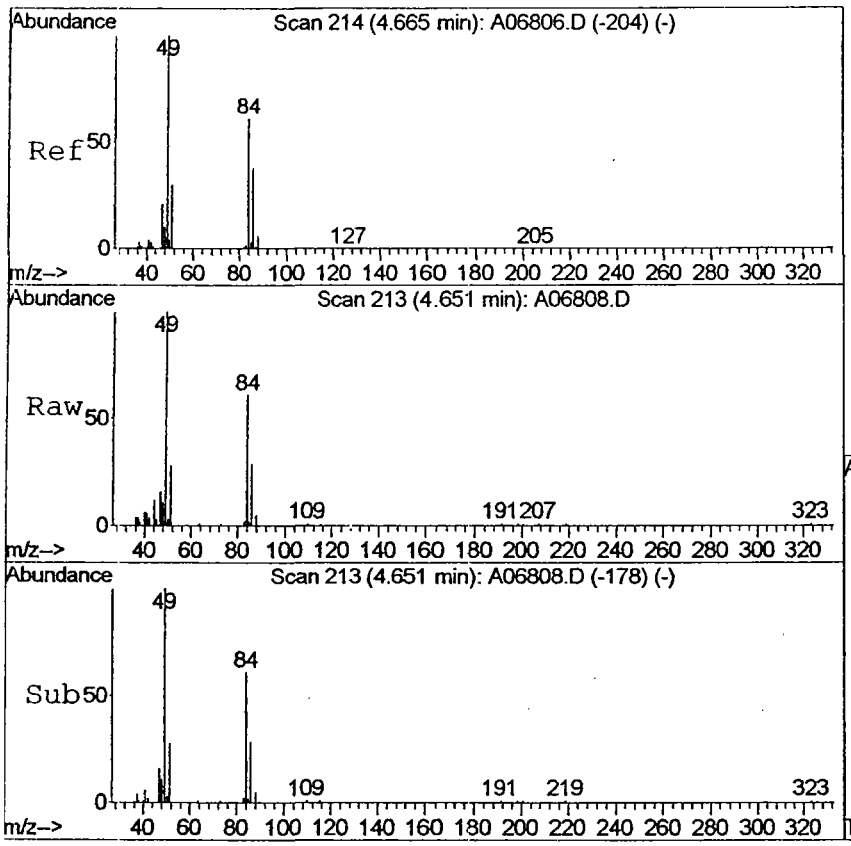
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File: C:\MSDChem\1\A-5973\A06808.D
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 19 13:45:38 2006
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0
QLast Update : Tue Dec 19 13:44:00 2006
Response via : Initial Calibration

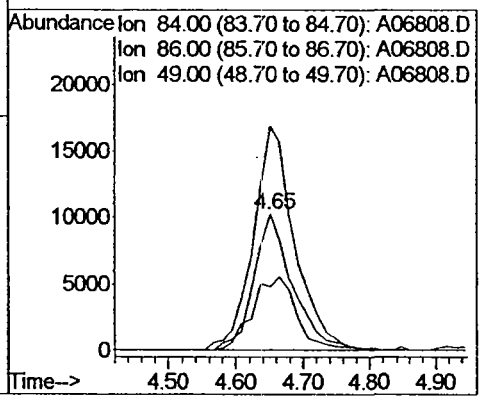


Data File : C:\MSDChem\1\A-5973\A06808.D Vial: 4
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML Multiplr: 1.00
MS Integration Params: LSCINT.E



#16
Methylene Chloride
Concen: 0.40 ug/L
RT: 4.66 min Scan# 213
Delta R.T. -0.00 min
Integration Range:
Scan=206 to 225
R.T.= 4.55 to 4.82 (min)
Tgt Ion: 84 Resp: 415546

Ion	Ratio	Lower	Upper
84	100		
86	61.6	51.6	77.4
49	173.8	97.1	145.7#



Data Path : C:\MSDChem\1\A-5973\
Data File : A06808.D
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.230	35	40	69	BV 2	246907	17184215	28.92%	3.557%
2	2.748	69	77	109	PV	283686	20076932	33.79%	4.155%
3	3.224	109	111	120	VV 9	5434	347386	0.58%	0.072%
4	3.392	120	123	126	VV 5	8145	264876	0.45%	0.055%
5	3.462	126	128	137	VV 7	6668	394818	0.66%	0.082%
6	3.686	137	144	167	PV	728615	34284619	57.70%	7.096%
7	4.021	167	168	170	PV 2	623	7972	0.01%	0.002%
8	4.105	170	174	176	PV 3	1453	41307	0.07%	0.009%
9	4.203	176	181	183	PV 4	2232	75402	0.13%	0.016%
10	4.259	183	185	188	VV 4	1551	39171	0.07%	0.008%
1	4.343	188	191	194	VV 2	1217	27703	0.05%	0.006%
2	4.427	194	197	200	VV 4	1367	32207	0.05%	0.007%
13	4.511	200	203	205	PV 4	1254	30308	0.05%	0.006%
14	4.665	205	214	224	VV 3	46713	2302063	3.87%	0.476%
15	4.819	224	225	228	VV	3409	72291	0.12%	0.015%
16	4.917	228	232	240	VV 5	12116	650176	1.09%	0.135%
17	5.085	240	244	247	VV 4	4189	187647	0.32%	0.039%
18	5.155	247	249	262	VV 5	3716	232998	0.39%	0.048%
19	5.378	262	265	267	VV 3	2191	55487	0.09%	0.011%
20	5.434	267	269	277	VV 3	1737	69557	0.12%	0.014%
21	5.574	277	279	282	VV 2	1449	47303	0.08%	0.010%
22	5.658	282	285	288	VV 2	2143	49374	0.08%	0.010%
23	5.728	288	290	292	VV 2	1015	16851	0.03%	0.003%
24	5.812	292	296	298	PV 2	1075	26950	0.05%	0.006%
25	5.924	298	304	315	VV 2	10204	468388	0.79%	0.097%
26	6.120	315	318	320	VV 3	1178	42014	0.07%	0.009%
27	6.190	320	323	328	VV 4	1227	47261	0.08%	0.010%
28	6.288	328	330	331	VV	1153	21905	0.04%	0.005%
29	6.330	331	333	335	VV 2	2300	47056	0.08%	0.010%
30	6.442	335	341	347	VV 4	3353	180565	0.30%	0.037%
31	6.554	347	349	351	VV	1231	28459	0.05%	0.006%
32	6.624	351	354	355	VV 2	1862	46362	0.08%	0.010%
33	6.666	355	357	360	PV 3	1485	40000	0.07%	0.008%
34	6.778	360	365	371	VV 3	9891	446913	0.75%	0.092%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06808.D
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

35	6.890	371	373	375	VV	2	907	16428	0.03%	0.003%
36	6.946	375	377	379	VV	2	1501	33179	0.06%	0.007%
37	7.058	379	385	390	VV	4	26167	1185807	2.00%	0.245%
38	7.211	390	396	405	VV		769545	29716391	50.01%	6.150%
39	7.449	405	413	421	VV	7	28398	2372124	3.99%	0.491%
40	7.645	421	427	443	VV		362863	16662122	28.04%	3.449%
41	7.897	443	445	446	VV	2	5548	142545	0.24%	0.030%
42	8.037	446	455	467	VV		1487079	55409413	93.25%	11.468%
43	8.289	467	473	490	VV		463799	18295475	30.79%	3.787%
44	8.583	490	494	498	VV	4	3070	143910	0.24%	0.030%
45	8.653	498	499	501	VV		2111	43487	0.07%	0.009%
46	8.709	501	503	509	VV	2	2235	93399	0.16%	0.019%
47	8.834	509	512	515	VV	4	2670	76194	0.13%	0.016%
48	8.974	515	522	525	VV	5	34618	1436310	2.42%	0.297%
49	9.072	525	529	543	VV		305008	10682668	17.98%	2.211%
50	9.282	543	544	550	VV	2	1650	79720	0.13%	0.016%
51	9.394	550	552	554	VV	2	2061	50789	0.09%	0.011%
52	9.464	554	557	559	VV	4	2293	62518	0.11%	0.013%
53	9.562	559	564	565	VV	4	3917	112456	0.19%	0.023%
54	9.660	565	571	578	VV		907619	31926062	53.73%	6.608%
55	9.772	578	579	585	VV	5	23494	868078	1.46%	0.180%
56	9.912	585	589	597	VV	2	13605	592877	1.00%	0.123%
57	10.038	597	598	600	VV		2064	42667	0.07%	0.009%
58	10.192	600	609	635	VV	2	27619	2399777	4.04%	0.497%
59	10.583	635	637	640	VV	3	2150	55184	0.09%	0.011%
60	10.709	640	646	650	VV	4	11823	495059	0.83%	0.102%
61	10.863	650	657	671	VV		766848	23532684	39.61%	4.871%
62	11.199	671	681	691	VV		1960571	59417546	100.00%	12.298%
63	11.353	691	692	698	VV	4	8981	368970	0.62%	0.076%
64	11.451	698	699	701	VV	2	4768	83868	0.14%	0.017%
65	11.493	701	702	704	VV	2	4252	107183	0.18%	0.022%
66	11.549	704	706	710	VV	4	3630	148784	0.25%	0.031%
67	11.647	710	713	716	VV	3	3393	125061	0.21%	0.026%
68	11.731	716	719	720	VV	2	3871	92300	0.16%	0.019%
69	11.871	720	729	730	VV	3	27352	869936	1.46%	0.180%
70	11.941	730	734	740	VV		201413	6264949	10.54%	1.297%
71	12.039	740	741	743	VV	2	5610	139969	0.24%	0.029%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06808.D
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

72	12.081	743	744	749	VV	3	4444	200329	0.34%	0.041%
73	12.207	749	753	758	VV	2	20691	707159	1.19%	0.146%
74	12.332	758	762	767	VV	4	3919	208880	0.35%	0.043%
75	12.472	767	772	784	VV	4	12841	566091	0.95%	0.117%
76	12.738	784	791	793	VV	4	8969	342787	0.58%	0.071%
77	12.808	793	796	800	VV	2	11211	463158	0.78%	0.096%
78	12.892	800	802	806	VV	2	2127	73670	0.12%	0.015%
79	12.962	806	807	809	VV		2060	34604	0.06%	0.007%
80	13.046	809	813	815	VV	3	2048	72119	0.12%	0.015%
81	13.242	815	827	850	VV		1428765	37834390	63.68%	7.831%
82	13.592	850	852	853	VV		4008	100058	0.17%	0.021%
83	13.690	853	859	864	VV		669801	19089561	32.13%	3.951%
84	13.802	864	867	873	VV	2	37365	1229815	2.07%	0.255%
85	13.900	873	874	880	VV	3	3727	150734	0.25%	0.031%
86	14.053	880	885	892	VV		27403	921098	1.55%	0.191%
87	14.165	892	893	904	VV	4	2864	207289	0.35%	0.043%
88	14.347	904	906	908	VV	2	1935	45958	0.08%	0.010%
89	14.417	908	911	913	VV	3	2239	74798	0.13%	0.015%
90	14.473	913	915	917	VV		2284	50336	0.08%	0.010%
91	14.543	917	920	924	VV	3	2710	104487	0.18%	0.022%
92	14.627	924	926	931	VV	4	2635	108169	0.18%	0.022%
93	14.767	931	936	939	VV		22156	645998	1.09%	0.134%
94	14.865	939	943	948	VV	3	22206	698115	1.17%	0.144%
95	14.949	948	949	951	VV	2	1677	34518	0.06%	0.007%
96	14.991	951	952	957	VV	4	1894	83359	0.14%	0.017%
97	15.089	957	959	962	VV	3	1838	45885	0.08%	0.009%
98	15.159	962	964	971	VV	2	1691	65563	0.11%	0.014%
99	15.327	971	976	980	PV	2	20293	609235	1.03%	0.126%
100	15.397	980	981	983	VV		1707	34224	0.06%	0.007%
101	15.467	983	986	994	VV	7	5717	231191	0.39%	0.048%
102	15.607	994	996	1002	VV	3	1998	71523	0.12%	0.015%
103	15.732	1002	1005	1011	VV	3	2097	96145	0.16%	0.020%
104	15.844	1011	1013	1019	VV	5	2943	141059	0.24%	0.029%
105	15.970	1019	1022	1029	VV	3	1548	84446	0.14%	0.017%
106	16.166	1029	1036	1044	VV		611508	17295288	29.11%	3.580%
107	16.292	1044	1045	1050	VV	3	2012	64143	0.11%	0.013%
108	16.418	1050	1054	1055	VV	2	2367	73534	0.12%	0.015%
109	16.460	1055	1057	1064	VV	4	3546	122743	0.21%	0.025%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06808.D
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

110	16.586	1064	1066	1068	VV	2	1904	39362	0.07%	0.008%
111	16.628	1068	1069	1080	VV	3	1655	111471	0.19%	0.023%
112	16.796	1080	1081	1083	VV		1918	32053	0.05%	0.007%
113	16.852	1083	1085	1090	VV	3	1762	74995	0.13%	0.016%
114	16.950	1090	1092	1094	VV	2	2041	58648	0.10%	0.012%
115	17.048	1094	1099	1102	VV	2	2442	80608	0.14%	0.017%
116	17.118	1102	1104	1107	VV	2	1351	44566	0.08%	0.009%
117	17.174	1107	1108	1119	VV	3	1664	102344	0.17%	0.021%
118	17.439	1119	1127	1135	VV	4	1305	110507	0.19%	0.023%
119	17.635	1135	1141	1146	VV	2	24409	735250	1.24%	0.152%
120	17.775	1146	1151	1159	VV		493105	13777884	23.19%	2.852%
121	17.915	1159	1161	1172	VV	3	3608	242030	0.41%	0.050%
122	18.097	1172	1174	1177	VV	3	2330	85851	0.14%	0.018%
123	18.167	1177	1179	1187	VV	3	2040	110855	0.19%	0.023%
4	18.307	1187	1189	1192	VV	3	2609	73062	0.12%	0.015%
25	18.363	1192	1193	1195	VV		1689	25496	0.04%	0.005%
126	18.433	1195	1198	1200	PV	2	1874	53833	0.09%	0.011%
127	18.545	1200	1206	1213	VV		1392312	37099878	62.44%	7.679%
128	18.657	1213	1214	1220	VV	4	4834	221359	0.37%	0.046%
129	18.769	1220	1222	1226	VV	2	4155	144369	0.24%	0.030%
130	18.853	1226	1228	1232	VV	4	2524	87395	0.15%	0.018%
131	18.937	1232	1234	1239	VV	3	3372	135193	0.23%	0.028%
132	19.090	1239	1245	1246	VV	4	2487	114557	0.19%	0.024%
133	19.132	1246	1248	1255	VV	2	2552	141947	0.24%	0.029%
134	19.258	1255	1257	1259	VV	2	3355	69631	0.12%	0.014%
135	19.314	1259	1261	1264	VV	2	3001	92251	0.16%	0.019%
136	19.370	1264	1265	1270	VV	3	2095	70673	0.12%	0.015%
137	19.454	1270	1271	1277	VV	3	2086	83930	0.14%	0.017%
138	19.594	1277	1281	1290	VV	4	2187	164619	0.28%	0.034%
139	19.748	1290	1292	1294	VV	2	2314	39520	0.07%	0.008%
140	19.790	1294	1295	1306	VV	5	1497	91359	0.15%	0.019%
141	19.972	1306	1308	1311	VV	3	1716	54830	0.09%	0.011%
142	20.084	1311	1316	1323	VV	6	4291	196403	0.33%	0.041%
143	20.210	1323	1325	1327	VV		1673	31527	0.05%	0.007%
144	20.294	1327	1331	1333	VV		2450	63890	0.11%	0.013%
145	20.350	1333	1335	1338	VV	3	2879	70538	0.12%	0.015%
146	20.406	1338	1339	1347	VV	3	1654	102054	0.17%	0.021%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06808.D
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

147	20.546	1347	1349	1350	VV		1604	22497	0.04%	0.005%
148	20.616	1350	1354	1360	VV	3	2042	116806	0.20%	0.024%
149	20.728	1360	1362	1366	VV	3	2239	106336	0.18%	0.022%
150	20.811	1366	1368	1376	VV	5	2191	98578	0.17%	0.020%
151	20.993	1376	1381	1384	VV	4	1953	91374	0.15%	0.019%
152	21.063	1384	1386	1389	VV	3	2108	59688	0.10%	0.012%
153	21.147	1389	1392	1397	VV	3	2008	89386	0.15%	0.019%
154	21.231	1397	1398	1400	VV		1056	19459	0.03%	0.004%
155	21.287	1400	1402	1404	VV	2	1478	35189	0.06%	0.007%
156	21.385	1404	1409	1413	VV	3	16077	487149	0.82%	0.101%
157	21.455	1413	1414	1416	VV		1751	42156	0.07%	0.009%
158	21.511	1416	1418	1427	VV	3	2434	130288	0.22%	0.027%
159	21.679	1427	1430	1433	VV	2	1652	52862	0.09%	0.011%
160	21.749	1433	1435	1442	VV	4	2798	125161	0.21%	0.026%
161	21.875	1442	1444	1445	VV	2	1622	35517	0.06%	0.007%
162	21.917	1445	1447	1451	VV	4	1998	72669	0.12%	0.015%
163	22.001	1451	1453	1455	VV		2097	44027	0.07%	0.009%
164	22.043	1455	1456	1458	VV	2	1688	25983	0.04%	0.005%
165	22.127	1458	1462	1465	PV	5	1419	59880	0.10%	0.012%
166	22.197	1465	1467	1471	VV	3	2144	80659	0.14%	0.017%
167	22.365	1471	1479	1483	VV	5	11221	413215	0.70%	0.086%
168	22.449	1483	1485	1487	VV	2	1865	38913	0.07%	0.008%
169	22.519	1487	1490	1495	VV	2	3336	110688	0.19%	0.023%
170	22.630	1495	1498	1502	VV	3	1609	65702	0.11%	0.014%
171	22.714	1502	1504	1506	VV		1304	23736	0.04%	0.005%
172	22.770	1506	1508	1513	VV	2	1812	79277	0.13%	0.016%
173	22.854	1513	1514	1517	VV	2	1560	36893	0.06%	0.008%
174	22.938	1517	1520	1522	VV	3	1741	59152	0.10%	0.012%
175	23.008	1522	1525	1528	VV	3	2584	74055	0.12%	0.015%
176	23.078	1528	1530	1532	VV	2	1618	45758	0.08%	0.009%
177	23.120	1532	1533	1536	VV		2447	55569	0.09%	0.012%
178	23.218	1536	1540	1545	VV	4	2064	83002	0.14%	0.017%
179	23.358	1545	1550	1552	VV	4	2420	96673	0.16%	0.020%
180	23.428	1552	1555	1560	VV	2	2444	96722	0.16%	0.020%
181	23.540	1560	1563	1566	PV	3	2590	54683	0.09%	0.011%
182	23.638	1566	1570	1576	VV	5	2075	86665	0.15%	0.018%
183	23.834	1576	1584	1588	VV	3	1707	97983	0.16%	0.020%

Data Path : C:\MSDChem\1\A-5973\
Data File : A06808.D
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

Integration Parameters: LSCINT.E
Integrator: ChemStation

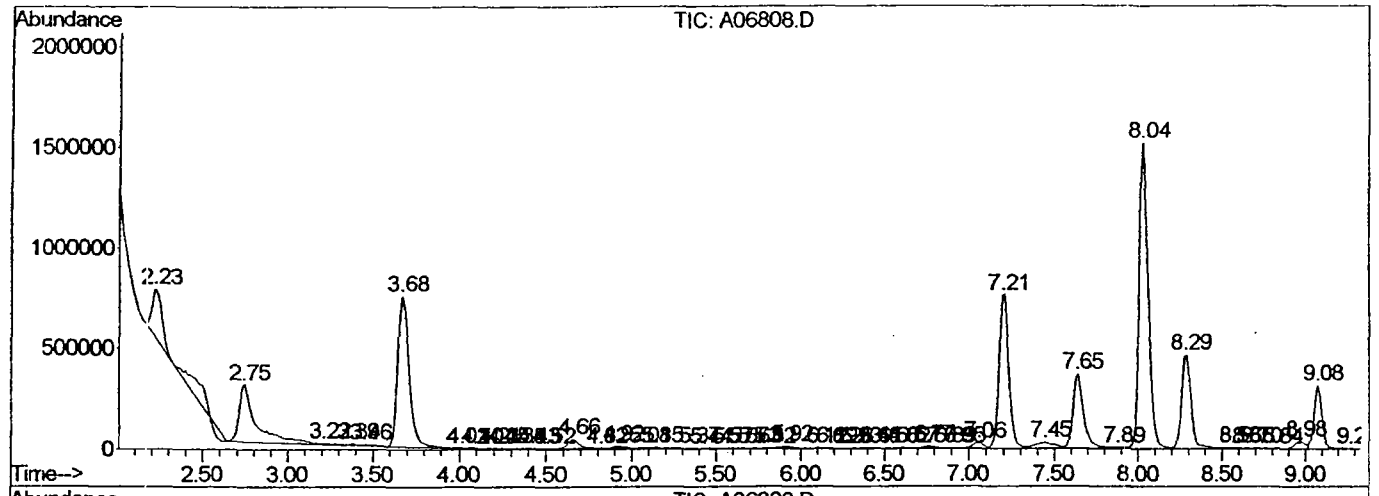
Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

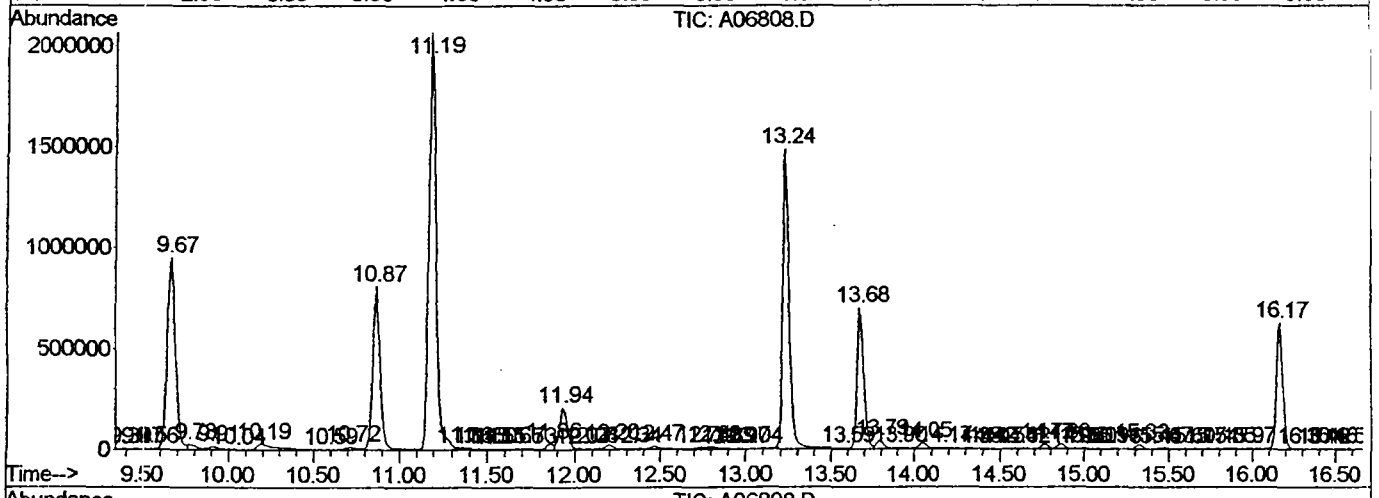
Sum of corrected areas: 483163973

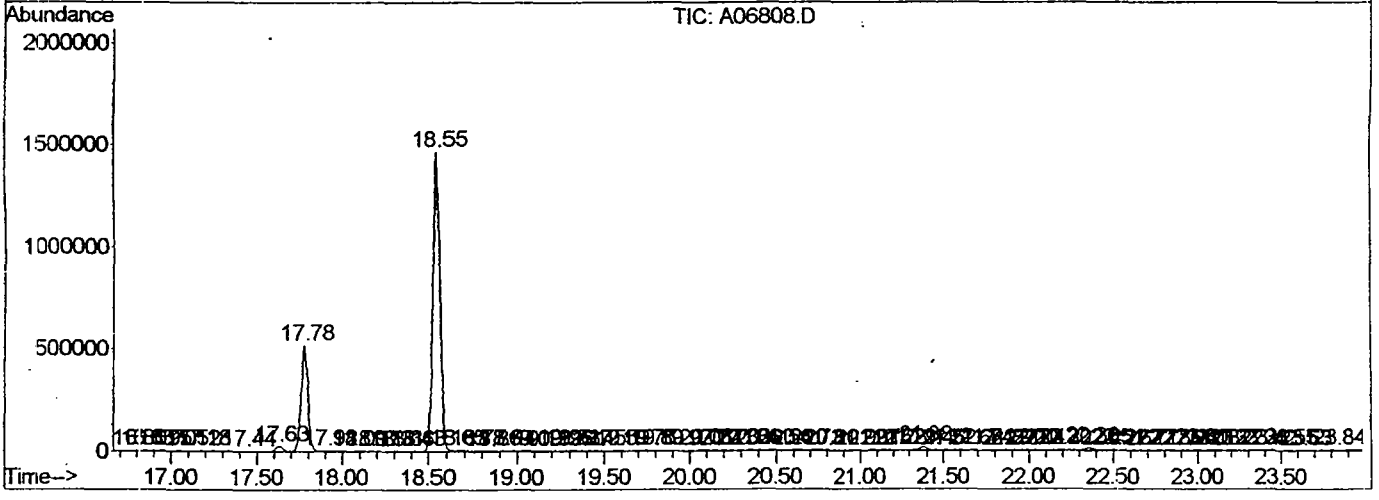
Data Path : C:\MSDChem\1\A-5973\
Data File : A06808.D
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e







Data Path : C:\MSDChem\1\A-5973\
Data File : A06808.D
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

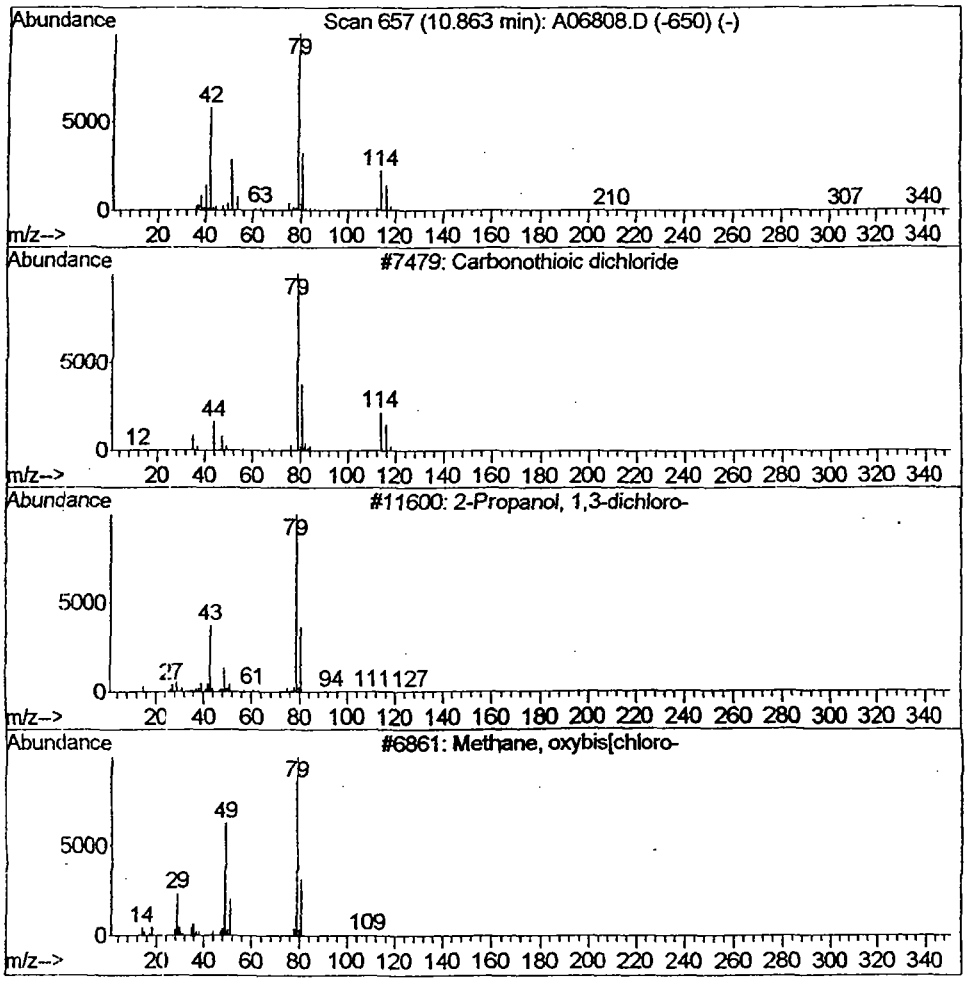
Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

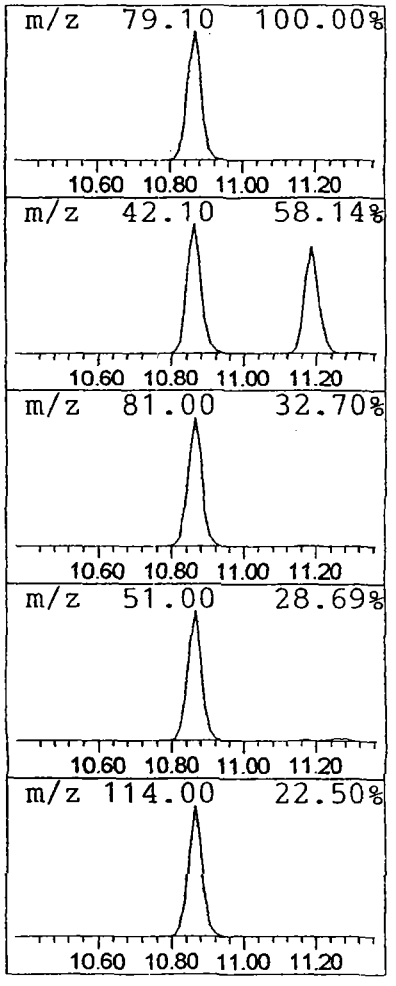
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

****
Peak Number 1 Carbonothioic dichloride Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.87	11.01 ug/L	23532700	1,4-Difluorobenzene	9.08

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbonothioic dichloride	114	CCl2S	000463-71-8	52
2	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	23
3	Methane, oxybis[chloro-	114	C2H4Cl2O	000542-88-1	23
4	3-Thiatricyclo[3.1.1.0(2,4)]heptane	112	C6H8S	1000221-37-0	9
5	2-Propanol, 1,3-dichloro-	128	C3H6Cl2O	000096-23-1	9





Tentatively Identified Compound (TIC) Summary

Data Path : C:\MSDChem\1\A-5973\
Data File : A06808.D
Acq On : 12/18/06 13:45 Operator: SB
Sample : VBLKEE Inst : A-5973
Misc : VBLKEE 25ML
ALS Vial : 4 Sample Multiplier: 1

Quant Method : C:\MSDCHEM\1\METHODS\CLPT6689.M
Quant Title : LOW SOIL- VOLATILES ANALYSIS BY SOM01.0

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.e

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Carbonothioic dic...	10.87	11.0	ug/L	23532700	1	9.08	10682700	5.0

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E2P18 CERCLIS No: IN982073785

Case No: 35998 Site Name/Location: Lusher Street Groundwater (IN)

Contractor or EPA Lab: KAP Data User: Tom

No. of Samples: 20 Date Sampled or Date Received: 28 Dec 06

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Adams Johnson Date: 28 Dec 06

Received by LSSS: Adams Johnson Date: 8 Jan 07

Review started: 1-12-07 Reviewer Signature: Steven Toth

Total time spent on review: 24 hrs Date review completed: 1-14-07

Copied by: R. C. Harvey Date: Jan 23, 2007

Mailed to user by: Adams Johnson Date: 25 Jan 07

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

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

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

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

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: December 29, 2006

FROM: Stephen L. Ostrodka, Chief (SRT-4J) for Steve Ostrodka 1/22/07
Superfund Field Services Section

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE Name: Lusher Street Groundwater Contamination (IN)

Case Number: 35998 SDG Number: E2P49

Number and Type of Samples: 14 Waters (Trace VOAs)

Sample Numbers: E2P30 – E2P34, E2P37 – E2P39, E2P49, E2P50, E2P55 – E2P58

Laboratory: KAP Technologies Hrs for Review:

Following are our findings:

the data are usable and acceptable with the qualifications described in the attached narrative.
Richard L. Bynik

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35998
Site Name: Lusher Street Groundwater Contam. (IN)

SDG Number: E2P49
Laboratory: KAP Technologies

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

Fourteen (14) preserved water samples labeled E2P30 through E2P34, E2P37 through E2P39, E2P49, E2P50 and E2P55 through E2P58 were shipped to KAP Technologies. All samples were collected December 5 - 7, 2006 and received December 7 - 8, 2006 intact and properly cooled. All samples were analyzed for only the trace volatile target compounds. All samples were analyzed according to CLP SOW SOM01.1 and reviewed according to the NFG for SOM01.1 and the ESAT Region 5 Organic Data Validation Criteria Matrix.

Samples E2P49, E2P50 and E2P58 were designated by the samplers to be used for laboratory QC, i.e. matrix spike / matrix spike duplicate analyses. MS/MSD analyses were conducted with only sample E2P49.

No samples were identified as trip blanks, field blanks or field duplicates.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: January 19, 2007

Case Number: 35998 SDG Number: E2P49
Site Name: Lusher Street Groundwater Contam. (IN) Laboratory: KAP Technologies

1. HOLDING TIME

No problems were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found.

3. CALIBRATION

The following trace volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. The compound was not detected in any of the samples. The non-detected compound is qualified "R".

1,4-Dioxane
E2P30, E2P31, E2P32, E2P33, E2P33DL, E2P34, E2P37, E2P38, E2P39, E2P39DL, E2P49, E2P49MS, E2P49MSD, E2P50, E2P55, E2P56, E2P57, E2P57RE, E2P58, VBLKDK, VBLKDN, VBLKDT, VBLKDV, VBLKEC, VBLKEK, VHBLK01

The following trace volatile samples are associated with an initial calibration with a percent relative standard deviation (%RSD) that exceeded the criteria of 30%. The compound was not detected in any of the samples. The non-detected compound is qualified "UJ".

o-Xylene
E2P30, E2P31, E2P32, E2P33, E2P33DL, E2P34, E2P37, E2P38, E2P39, E2P39DL, E2P49, E2P49MS, E2P49MSD, E2P50, E2P56, E2P58, VBLKDT, VBLKDV, VBLKEC

The following trace volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Sample results are not qualified based on the DMC %RSD or RRF data alone.

1,4-Dioxane-d8
E2P30, E2P31, E2P32, E2P33, E2P33DL, E2P34, E2P37, E2P38, E2P39, E2P39DL, E2P49, E2P49MS, E2P49MSD, E2P50, E2P55, E2P56, E2P57, E2P57RE, E2P58, VBLKDK, VBLKDN, VBLKDT, VBLKDV, VBLKEC, VBLKEK, VHBLK01

The following trace volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. The compound was not detected in any of the samples. The non-detected compound is qualified "R".

1,4-Dioxane
E2P30, E2P31, E2P32, E2P33, E2P33DL, E2P34, E2P37, E2P38, E2P39, E2P39DL, E2P49, E2P49MS, E2P49MSD, E2P50, E2P55, E2P56, E2P57, E2P57RE, E2P58, VBLKDK, VBLKDN, VBLKDT, VBLKDV, VBLKEC, VBLKEK, VHBLK01

The following trace volatile samples are associated with a CCV in which a DMC did not meet relative response factor (RRF) criteria. Sample results are not qualified based on the DMC %D or RRF data alone.

1,4-Dioxane-d8
E2P30, E2P31, E2P32, E2P33, E2P33DL, E2P34, E2P37, E2P38, E2P39, E2P39DL, E2P49, E2P49MS, E2P49MSD, E2P50, E2P55, E2P56, E2P57, E2P57RE, E2P58, VBLKDK, VBLKDN, VBLKDT, VBLKDV, VBLKEC, VBLKEK, VHBLK01

4. BLANKS

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

Methylene Chloride
E2P30, E2P32, E2P33DL, E2P37

The following trace volatile samples have common contaminant analyte concentrations reported greater than or equal to 4X the CRQL. The associated method blank has common analyte contaminant concentration less than or equal to 2X the concentration criteria. Detected compounds are qualified "U" when the sample concentration is less than 10X the blank concentration. The sample concentration value is reported.

Methylene Chloride
E2P55, E2P57

The following trace volatile samples have TIC concentrations less than 5X the associated method blank TIC concentration. The detected TIC is considered blank contamination and deleted from the TIC report.

E2P30, E2P31, E2P32, E2P33DL, E2P34, E2P37, E2P38, E2P39DL, E2P49, E2P50, E2P55, E2P56, E2P57, E2P57RE, E2P58, VHBLK01

Case Number: 35998 SDG Number: E2P49
Site Name: Lusher Street Groundwater Contam. (IN) Laboratory: KAP Technologies

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following trace volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. The compounds were not detected in any of the samples. Non-detected compounds are not qualified for this criterion.

E2P39, E2P58
Chlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

E2P55
Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene

E2P57, E2P57RE
Dichlorodifluoromethane, Chloromethane, Vinyl chloride, Bromomethane, Chloroethane, 1,1-Dichloroethene, Carbon disulfide, trans-1,2-Dichloroethene, 1,1-Dichloroethane, cis-1,2-Dichloroethene, Bromochloromethane, Chloroform, Dibromochloromethane, Bromoform

The following trace volatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than 20%. The detection of 1,1,2-Trichloroethane in sample E2P33 is qualified "J". Non-detected compounds are qualified "UJ".

E2P31, E2P33, E2P33DL, E2P34, E2P37, E2P38, E2P39DL, E2P49, E2P49MS, E2P49MSD, E2P50, E2P56, E2P57, E2P57RE, E2P58
Cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane

E2P33
Acetone, 1,1-Dichloroethane, 2-Butanone, Bromochloromethane, Chloroform, Dibromochloromethane, Bromoform

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Samples E2P49, E2P50 and E2P58 were designated by the samplers to be used for laboratory QC, i.e. matrix spike / matrix spike duplicate analyses. MS/MSD analyses were conducted with only sample E2P49.

No problems were found.

6B. LABORATORY CONTROL SAMPLE

Not applicable for the trace volatile analyses.

Case Number: 35998
Site Name: Lusher Street Groundwater Contam. (IN)

SDG Number: E2P49
Laboratory: KAP Technologies

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as trip blanks, field blanks or field duplicates.

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

8. INTERNAL STANDARDS

No problems were found.

9. COMPOUND IDENTIFICATION

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

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

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

E2P30
1,2-Dichloroethane

E2P33
Cis-1,2-Dichloroethene, 1,1,2-Trichloroethane

E2P34, E2P49MS
Methylene chloride

E2P39DL
1,1,1-Trichloroethane

VBLKDV
1,2,3-Trichlorobenzene

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: January 19, 2007

Case Number: 35998
Site Name: Lusher Street Groundwater Contam. (IN)

SDG Number: E2P49
Laboratory: KAP Technologies

12. ADDITIONAL INFORMATION

The following volatile sample have analyte concentrations which exceed the instruments calibration range. The detected results are qualified "J". The results from the diluted analyses should be considered the final concentrations for the affected analytes.

E2P33, E2P39
Trichloroethene

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: January 19, 2007

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.)

National Functional Guidelines Report # 9

12:03 Tue, Jan 2, 2007

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA Trace Sample=E2P30 Location=DW47 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA Trace Sample=E2P31 Location=DW48 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
000098-01-1	Furfural	15.16	0.61		NJ

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P32 Location=DW49 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
000556-67-2	Cyclotetrasiloxane, octamethyl-	15.88	0.68		NJ

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P33 Location=DW50 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	15.89	2.8	UG/L	J
	Unknown-02	19.33	3.1		J

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National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P33DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P34 Location=DW51 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	2.92	0.75	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P37 Location=DW52 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	11.77	3.5		J
	Unknown-03	12.75	3.3		J
	Unknown-04	15.88	4.5		J
	Unknown-05	19.31	3.1		J

National Functional Guidelines Report # 9

12:03 Tue, Jan 2, 2007

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA Trace Sample=E2P38 Location=DW53 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P39DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P49 Location=DW29 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	19.33	0.53		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) SDG E2P49 Case 35998 Contract EPW05032 Region 5 DDTID 33360

Tentatively identified Compounds

VOA Trace Sample=E2P50 Location=DW34 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

National Functional Guidelines Report # 9

ab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P55 Location=DW31 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA Trace Sample=E2P56 Location=DW30 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	12.76	2.2		J
	Unknown-03	15.18	1.9		J
	Unknown-04	18.28	2.6		J
	Unknown-05	19.34	2.6		J
	Unknown-06	19.54	2.2		J
	Unknown-07	20.25	2.2		J
	Unknown-08	21.16	2.1		J
	Unknown-09	22.48	1.9		J
	Unknown-10	23.13	2.3		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2F49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P57 Location=DW15 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

National Functional Guidelines Report # 9

12:03 Tue, Jan 2, 2007

Lab KAP (KAP Technologies Inc) SDG E2P49 Case 35998 Contract EPW05032 Region 5 DDTID 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P57RE Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=E2P58 Location=DW32 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	12.75	2.2		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=VBLKDK Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.87	9.5	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) SDG E2P49 Case 35998 Contract EPW05032 Region 5 DDTID 33360

Tentatively identified Compounds

VOA_Trace Sample=VBLKDN Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.72	8.0	UG/L	J
	Unknown-02	10.87	9.8		J
	Unknown-03	15.47	7.7		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=VBLKDT Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.88	11	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=VBLKDV Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.88	8.0	UG/L	J
	Unknown-02	15.48	3.2		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=VBLKEC Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.73	2.0	UG/L	J
	Unknown-02	10.88	12		J
	Unknown-03	15.48	1.4		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2F49 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33360

Tentatively identified Compounds

VOA_Trace Sample=VBLKEK Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.89	11	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) SDG E2P49 Case 35998 Contract EPW05032 Region 5 DDTID 33360

Tentatively identified Compounds

VOA Trace Sample=VHBLK01 Location=No TR data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Number of Soil Samples : 0
Number of Water Samples : 14
Number of Sediment Samples : 0

Sample Number :	E2P30		E2P31		E2P32		E2P33		E2P33DL	
Sampling Location :	DW47		DW48		DW49		DW50		DW50	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/7/2006		12/6/2006		12/6/2006			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		5.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	UJ	25	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Methylene chloride	0.50	U	1.0		0.50	U	0.50	U	2.5	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Methyl tert-butyl ether	1.4		0.50	U	0.50	U	0.50	U	2.5	U
1,1-Dichloroethane	0.50	U	2.8		0.50	U	0.50	UJ	2.5	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.40	J	2.5	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	UJ	25	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	UJ	2.5	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	UJ	2.5	U
1,1,1-Trichloroethane	0.50	U	0.85		7.1		0.50		2.5	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2-Dichloroethane	0.25	J	0.50	U	0.50	U	0.50	U	2.5	U
1,4-Dioxane	20	R	20	R	20	R	20	R	100	R
Trichloroethene	0.50	U	0.50	U	0.50	U	54	J	42	
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
cis-1,3-Dichloropropene	0.50	U	0.50	UJ	0.50	U	0.50	UJ	2.5	UJ
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	25	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
trans-1,3-Dichloropropene	0.50	U	0.50	UJ	0.50	U	0.50	UJ	2.5	UJ

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P30		E2P31		E2P32		E2P33		E2P33DL	
Sampling Location :	DW47		DW48		DW49		DW50		DW50	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/7/2006		12/6/2006		12/6/2006			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		5.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U	0.50	UJ	0.50	U	0.30	J	2.5	UJ
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	25	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	UJ	2.5	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
o-Xylene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	2.5	UJ
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	UJ	2.5	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P34		E2P37		E2P38		E2P39		E2P39DL	
Sampling Location :	DW51		DW52		DW53		DW54		DW54	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/7/2006		12/6/2006		12/6/2006			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		5.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	25	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Methylene chloride	0.41	J	0.50	U	0.50	U	0.50	U	2.5	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,1-Dichloroethane	0.50	U	0.50	U	0.69		0.50	U	2.5	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	14		9.8	
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	25	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,1,1-Trichloroethane	6.7		2.8		5.7		2.2		2.1	J
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,4-Dioxane	20	R	20	R	20	R	20	R	100	R
Trichloroethene	0.50	U	1.1		0.50	U	58	J	43	
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
cis-1,3-Dichloropropene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	2.5	UJ
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	25	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
trans-1,3-Dichloropropene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	2.5	UJ

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P34		E2P37		E2P38		E2P39		E2P39DL	
Sampling Location :	DW51		DW52		DW53		DW54		DW54	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/7/2006		12/6/2006		12/6/2006			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		5.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U	2.5	UJ
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	25	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
o-Xylene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	2.5	UJ
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	2.5	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P49		E2P49MS		E2P49MSD		E2P50		E2P55	
Sampling Location :	DW29		DW29		DW29		DW34		DW31	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/5/2006						12/6/2006		12/5/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	4.8		4.8		0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	1.7		0.47	J	0.86		0.50	U	3.2	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	4.9		4.7		0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	20	R	20	R	20	R
Trichloroethene	0.50	U	4.0		4.0		0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	5.3		5.2		0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P49		E2P49MS		E2P49MSD		E2P50		E2P55	
Sampling Location :	DW29		DW29		DW29		DW34		DW31	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/5/2006						12/6/2006		12/5/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	4.8		4.7		0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P56		E2P57		E2P57RE		E2P58		VBLKDK	
Sampling Location :	DW30		DW15		DW15		DW32			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/5/2006				12/6/2006			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2			
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	7.5		7.5	U	15		0.50	U	0.90	
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.81		0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	20	R	20	R	20	R
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P56		E2P57		E2P57RE		E2P58		VBLKDK	
Sampling Location :	DW30		DW15		DW15		DW32			
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/6/2006		12/5/2006				12/6/2006			
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2			
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	UJ	0.50	U	0.50	U	0.50	UJ	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	VBLKDN		VBLKDT		VBLKDV		VBLKEC		VBLKEK	
Sampling Location :										
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.75		0.50	U	0.57		0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	20	R	20	R	20	R
Trichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	VBLKDN		VBLKDT		VBLKDV		VBLKEC		VBLKEK	
Sampling Location :										
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :										
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :										
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,3-Trichlorobenzene	0.50	U	0.50	U	0.38	J	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	VHBLK01									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U								
Chloromethane	0.50	U								
Vinyl chloride	0.50	U								
Bromomethane	0.50	U								
Chloroethane	0.50	U								
Trichlorofluoromethane	0.50	U								
1,1-Dichloroethene	0.50	U								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U								
Acetone	5.0	U								
Carbon disulfide	0.50	U								
Methyl acetate	0.50	U								
Methylene chloride	0.50	U								
trans-1,2-Dichloroethene	0.50	U								
Methyl tert-butyl ether	0.50	U								
1,1-Dichloroethane	0.50	U								
cis-1,2-Dichloroethene	0.50	U								
2-Butanone	5.0	U								
Bromochloromethane	0.50	U								
Chloroform	0.50	U								
1,1,1-Trichloroethane	0.50	U								
Cyclohexane	0.50	U								
Carbon tetrachloride	0.50	U								
Benzene	0.50	U								
1,2-Dichloroethane	0.50	U								
1,4-Dioxane	20	R								
Trichloroethene	0.50	U								
Methylcyclohexane	0.50	U								
1,2-Dichloropropane	0.50	U								
Bromodichloromethane	0.50	U								
cis-1,3-Dichloropropene	0.50	U								
4-Methyl-2-pentanone	5.0	U								
Toluene	0.50	U								
trans-1,3-Dichloropropene	0.50	U								

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P49
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	VHBLK01									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U								
Tetrachloroethene	0.50	U								
2-Hexanone	5.0	U								
Dibromochloromethane	0.50	U								
1,2-Dibromoethane	0.50	U								
Chlorobenzene	0.50	U								
Ethylbenzene	0.50	U								
o-Xylene	0.50	U								
m,p-Xylene	0.50	U								
Styrene	0.50	U								
Bromoform	0.50	U								
Isopropylbenzene	0.50	U								
1,1,2,2-Tetrachloroethane	0.50	U								
1,3-Dichlorobenzene	0.50	U								
1,4-Dichlorobenzene	0.50	U								
1,2-Dichlorobenzene	0.50	U								
1,2-Dibromo-3-chloropropane	0.50	U								
1,2,4-Trichlorobenzene	0.50	U								
1,2,3-Trichlorobenzene	0.50	U								

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 29 Dec 04

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

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE NAME: Lusher Street Groundwater Contamination (IN)

CASE NUMBER: 35998 SDG NUMBER: E2P49

Number and Type of Samples: 14 water samples

Sample Numbers: E2P49-50; 55-58; 30-34; 37-39

Laboratory: KAP Technologies Hrs for Review: _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet	
SDG Number E2P49	
Laboratory Name Kap Technologies Inc	Lab Code KAP
Contract No. EPW05032	Case No. 35998
Analysis Price _____	SDG Turnaround 21 Days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E2P49	7) E2P30	13) E2P38	19)
2) E2P50	8) E2P31	14) E2P39	20)
3) E2P55	9) E2P32	15)	21)
4) E2P56	10) E2P33	16)	22)
5) E2P57	11) E2P34	17)	23)
6) E2P58	12) E2P37	18)	24)

First Sample in SDG	Last Sample in SDG
E2P49	E2P39
First Sample Receipt Date Date	Last Sample Receipt
12/07/06	12/08/06

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

Signature _____ Date 12/13/2006

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

Case No: 35998
DAS No:
SDG No: E2P49

L

Date Shipped:	12/7/2006
Carrier Name:	FedEx
Airbill:	811417053124
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	12-7-06/12:00		
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW05032
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
E2P30	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244756 (HCL) (1)	DW47	S: 12/6/2006	18:38	5-0354.01	
E2P31	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244757 (HCL) (1)	DW48	S: 12/7/2006	17:45	.02	
E2P32	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244758 (HCL) (1)	DW49	S: 12/6/2006		.03	
E2P33	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244759 (HCL) (1)	DW50	S: 12/6/2006	19:35	.04	
E2P34	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244760 (HCL) (1)	DW51	S: 12/6/2006	17:16	.05	
E2P37	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244761 (HCL) (1)	DW52	S: 12/7/2006	9:55	.06	
E2P38	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244762 (HCL) (1)	DW53	S: 12/6/2006	17:42	.07	
E2P39	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244763 (HCL) (1)	DW54	S: 12/6/2006	18:15	.08	Field spare

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 2°c	Chain of Custody Seal Number: 185694, 185695
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y / Shipment Iced? Y

TR Number: 5-342946689-120706-0001

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

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

Case No: 35998
DAS No:
SDG No: E2P49

L

Date Shipped:	12/6/2006
Carrier Name:	FedEx
Airbill:	811417053146
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	12-6-06 / 8:30 pm		
2			
3			
4		[signature]	12-7-06 935

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW05032
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
E2P23	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244731 (HCL) (1)	DW28	S: 12/6/2006 11:30		
E2P24	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244732 (HCL) (1)	DW35	S: 12/6/2006 10:40		
E2P26	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244741 (HCL) (1)	DW33	S: 12/6/2006 13:55		
E2P49	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244733 (HCL), 5244734 (HCL), 5244735 (HCL) (3)	DW29	S: 12/5/2006 14:45	S-0351.01	1st sx ses
E2P50	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244742 (HCL), 5244743 (HCL), 5244744 (HCL) (3)	DW34	S: 12/6/2006 13:05	.02	
E2P55	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244737 (HCL) (1)	DW31	S: 12/5/2006 11:00	.03	
E2P56	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244736 (HCL) (1)	DW30	S: 12/6/2006 10:00	.04	
E2P57	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244719 (HCL) (1)	DW15	S: 12/5/2006 19:00	.05	
E2P58	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5244738 (HCL), 5244739 (HCL), 5244740 (HCL) (3)	DW32	S: 12/6/2006 15:45	.06	

ORIGINAL
Case: 35998 SDG: E2P18
Episode: S-0350 Init/date: [illegible] 12-7-06

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: E2P49, E2P50, E2P58	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number: 185682, 185683
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

TR Number: 5-342946689-120606-0003

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

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

Contract No. EPW05032	Case No. 35998	SDG No. E2P49

SDG NARRATIVE

SAMPLE RECEIPT:

On 12/07/06 @ 09:35 A.M. - Received one cooler via FedEx with shipment number 811417053146. The cooler temperature was 2^0C.
On 12/08/06 @ 09:25 A.M. - Received one cooler via FedEx with shipment number 811417053124. The cooler temperature was 2^0C.
The coolers contained the following samples for Trace-VOA analyses.
The custody seals and the samples were intact.

EPA SAMPLE ID	pH	EPA SAMPLE ID	pH
E2P49	<2	E2P34	<2
E2P50	<2	E2P37	<2
E2P55	<2	E2P38	<2
E2P56	<2	E2P39	<2
E2P57	<2	E2P57RE	
E2P58	<2	E2P33DL	
E2P30	<2	E2P39DL	
E2P31	<2		
E2P32	<2		
E2P33	<2		

No problems were encountered during sample receiving and login.

The COC/TR indicated more than one QC sample. SMO was notified and the resolution is enclosed. As per SMO lab analyzed only one sample for QC.

TRACE VOLATILES:

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

A 25 mL purge volume was used for Trace-water sample analyses, blanks and calibration standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).

The water samples were analyzed for Trace Volatiles in according the SOM 1.1 statement of work.

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

Contract No. EPW05032	Case No. 35998	SDG No. E2P49

SDG NARRATIVE

The sample E2P57 was failed in the surrogate recoveries and was reanalyzed. Upon reanalysis again failed due to sample matrix. Both the analyses were reported and are billable.

The samples E2P33 and E2P39 had the target compound concentrations above the calibration range and were analyzed using the dilutions. The samples using the dilutions are also billable.

No other problems were encountered during the analysis of this sample.

Manual Integrations

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

VSTD0.5DD -Trichlorofluoromethane
VSTD0.5DD - Methyl Acetate
VSTD001DD – 1,1,2-Trichloro-1,2,2-trif
VSTD001DD – Methyl Acetate
VSTD005DD -Trichlorofluoromethane
VSTD005DD – Methyl Acetate
VSTD010DD -Trichlorofluoromethane
VSTD010DD – Methyl Acetate
VSTD020DD -Trichlorofluoromethane
VSTD020DD – Methyl Acetate
VSTD0.5DR -Trichlorofluoromethane
VSTD001DR -Trichlorofluoromethane
VSTD010DR –Trichlorofluoromethane
VSTD020DR - Dichlorodifluoromethane
VSTD020DR - Trichlorofluoromethane
VSTD005DR - Trichlorofluoromethane
VSTD005DR - Methyl Acetate
VSTD0.5EI – 2-Butanone-d5
VSTD0.5EI – Methyl Acetate
VSTD001EI -Trichlorofluoromethane
VSTD001EI –Carbon Disulfide
VSTD005EI – 2-Butanone
VSTD010EI -Trichlorofluoromethane
VSTD010EI – 1,2-Dichloroethane
VSTD020EI –Trichlorofluoromethane
VSTD005DK –Trichlorofluoromethane
VSTD005DL - Dichlorodifluoromethane
VSTD005DL –Trichlorofluoromethane
VSTD005DT – 1,2-Dichloroethane
VSTD005DN –Trichlorofluoromethane

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

Contract No. EPW05032	Case No. 35998	SDG No. E2P49

SDG NARRATIVE

VSTD005DO –Trichlorofluoromethane
VSTD005DT –Trichlorofluoromethane
VSTD005DT – 1,2-Dichloropropane
VSTD005DV –Trichlorofluoromethane
VSTD005EC –Trichlorofluoromethane
VSTD005ED –Trichlorofluoromethane
VSTD005EK –Trichlorofluoromethane
VSTD005EL –Trichlorofluoromethane

The formula used to calculate the Sample concentration:

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

Where,
A_x = Area of the characteristic ion (EICP) for the compound to be measured.
A_{is} = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.
RRF = Mean relative Response Factor from the initial calibration standard.
V_o = Total Volume of water purged, in ml.
DF = Dilution Factor.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy sample data package and in the electronic data deliverable has been authorized by the laboratory manager or the manager's designee, as verified by the following signature:

Signature/Title

12/28/06
Date of Signature

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Hari Pasam
Initial Assessm... (1)
Jose
SBC-EMAIL (1)
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From: "Maruska, Gale" <gmaruska@fedcsc.com> View Contact Details Add Mobile Alert

To: "Rao Alsakani (E-mail)" <ralsakani@sbcglobal.net>

CC: "Howard Pham (E-mail)" <pham.howard@epa.gov>, "Carlene Thomas (E-mail)" <thomas.carlene@epa.gov>, "Mark Jaworski (E-mail)" <mjaworsk@idem.IN.gov>

Subject: Region 05 | Case 35998 | Lab KAP | Issue Insufficient/inappropria te designation of lab QC | FINAL

Date: Wed, 13 Dec 2006 15:48:04 -0500

Rao,

Summary Start
Issue: The TR/COC for Case 35998 mentions 5 QC samples, however the Lab only needs 3. Please note that the Lab did not need samples E2P50 or E2P58, since they only have 3 SDGs for this Case.
Resolution: In accordance with previous direction from Region 5, the laboratory will select one of the designated samples for laboratory QC. The laboratory will note the issue in the SDG Narrative, notify the SMO coordinator of the sample selected for QC, and proceed with the analysis of the samples.
Summary End

Please let me know if you have any questions.

Gale E. Maruska
Computer Sciences Corporation
Environmental Scientist
ST&R Coordinator Regions 5, 7 & 10
gmaruska@fedcsc.com
Phone(703)818-4125; Fax(703)818-4601; Alternate Fax(703)818-4602

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December 13, 2006 3:33 PM: Gale Maruska, SMO received a call from Rao Alsakani, KAP. The TR/COC for Case 35998 mentions 5 QC samples, however the Lab only needs 3. Please note that the Lab did not need samples E2P50 or E2P58, since they only have 3 SDGs for this Case.

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2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P49

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLKDK	124	119	100	116	112	110	105
02	E2P55	137 *	131	106 *	110	119	120	110
03	E2P57	137 *	133 *	109 *	114	123 *	122	107
04	VBLKDN	116	129	103	100	108	109	104
05	E2P57RE	137 *	138 *	112 *	131	126 *	127	106
06	VBLKDT	123	116	101	114	114	116	104
07	E2P49MS	87	85	91	84	83	87	90
08	E2P49MSD	84	84	88	86	81	87	85
09	E2P38	109	108	91	111	102	105	90
10	E2P31	111	110	90	104	106	110	95
11	E2P34	113	111	93	110	105	110	94
12	E2P49	112	111	92	112	110	114	95
13	VBLKDV	112	108	90	122	102	103	97
14	E2P32	113	109	94	107	109	107	99
15	E2P30	119	113	98	108	112	115	99
16	E2P33	82	80	67	78 *	77 *	78	99
17	VIBLK05	119	118	102	138	114	116	98
18	E2P37	111	107	92	106	105	108	101
19	E2P33DL	84	81	69	88	79	85	94
20	E2P50	118	111	95	122	110	118	97
21	E2P56	112	111	91	125	109	117	95
22	E2P58	121	120	100	132	114	125	100
23	VBLKEC	112	110	92	135	105	108	90
24	E2P39DL	79	80	64	79 ~~1~~ *	81	85	93
25	E2P39	76	80	61	75	90	100	103
26	VBLKEK	114	109	85	101	107	109	89
27	VHBLK01	120	117	89	105	113	117	90
28								
29								
30								

act 1-16-07

	QC LIMITS
VDMC1 (VCL) = Vinyl Chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

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

SOM01.1 (5/2005)

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P49

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLKDK	105	102	83	108	103	101	106	0
02	E2P55	110	107	74	105	80	97	123	2
03	E2P57	109	105	70 *	100	87	95	122	5
04	VBLKDN	103	100	78	98	97	100	101	0
05	E2P57RE	103	100	70 *	112	83	96	114	5
06	VBLKDT	102	113	76	110	117	89	122	0
07	E2P49MS	89	96	62 *	101	85	77	112	1
08	E2P49MSD	86	93	60 *	100	83	74	110	1
09	E2P38	89	97	59 *	100	116	74	112	1
10	E2P31	96	103	61 *	100	89	81	122	1
11	E2P34	93	102	61 *	98	90	78	119	1
12	E2P49	94	102	64 *	104	120	82	122	1
13	VBLKDV	95	104	88	119	108	92	112	0
14	E2P32	97	107	91	97	110	79	116	0
15	E2P30	96	109	90	103	118	82	118	0
16	E2P33	98	107	67 *	106	78	81	123	~~2~~ 3
17	VIBLK05	95	105	90	127	114	88	121	0
18	E2P37	98	109	67 *	108	122	86	127	1
19	E2P33DL	94	101	67 *	114	87	85	122	1
20	E2P50	97	104	67 *	119	114	90	124	1
21	E2P56	95	102	65 *	116	100	86	118	1
22	E2P58	96	107	68 *	118	92	88	132 *	2
23	VBLKEC	88	94	74	114	108	87	106	0
24	E2P39DL	95	98	65 *	88	71	86	114	2
25	E2P39	110	110	74	91	83	102	142 *	1
26	VBLKEK	90	99	77	93	92	83	118	0
27	VHBLK01	92	100	78	97	71	86	120	0
28									
29									
30									

acd 1-18-07

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

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

SOM01.1 (5/2005)

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P49

Matrix Spike - EPA Sample No.: E2P49 Level: (TRACE/LOW) TRACE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	5	0	4.8	96	61-145
Trichloroethene	5	0	4.0	80	71-120
Benzene	5	0	4.9	98	76-127
Toluene	5	0	5.3	106	76-125
Chlorobenzene	5	0	4.8	96	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5	4.8	96	0	14	61-145
Trichloroethene	5	4.0	80	0	14	71-120
Benzene	5	4.7	94	4	11	76-127
Toluene	5	5.2	104	2	13	76-125
Chlorobenzene	5	4.7	94	2	13	75-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

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

COMMENTS: _____

_____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDK

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P49

Lab File ID: A06626 Lab Sample ID: VBLKDK

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/11/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1813

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P55	S-0351.03	A06636	0033
02	E2P57	S-0351.05	A06638	0143
03				
04				
05				
06				
07				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDN

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P49

Lab File ID: A06653 Lab Sample ID: VBLKDN

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/12/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1659

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P57RE	S-0351.05RE	A06666	0040
02				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDT

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P49

Lab File ID: A06708 Lab Sample ID: VBLKDT

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/14/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1839

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P49MS	S-0351.01MS	A06718	0039
02	E2P49MSD	S-0351.01MSD	A06719	0112
03	E2P38	S-0354.07	A06720	0146
04	E2P31	S-0354.02	A06721	0220
05	E2P34	S-0354.05	A06722	0254
06	E2P49	S-0351.01	A06723	0329
07				
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10				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKDV

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P49

Lab File ID: A06728 Lab Sample ID: VBLKDV

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/15/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 0738

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P32	S-0354.03	A06729	0818
02	E2P30	S-0354.01	A06731	0933
03	E2P33	S-0354.04	A06732	1017
04	VIBLK05	VIBLK05	A06733	1052
05	E2P37	S-0354.06	A06734	1129
06	E2P33DL	S-0354.04DL	A06737	1315
07	E2P50	S-0351.02	A06738	1349
08	E2P56	S-0351.04	A06739	1424
09	E2P58	S-0351.06	A06740	1543
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKEC

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P49

Lab File ID: A06797 Lab Sample ID: VBLKEC

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/17/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1436

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P39DL	S-0354.08DL	A06799	1617
02	E2P39	S-0354.08	A06801	1729
03				
04				
05				
06				
07				
08				
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COMMENTS: _____

SOM01.1 (5/2005)

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKEK

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P49

Lab File ID: A06855 Lab Sample ID: VBLKEK

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/20/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1917

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLK01	S-0351.07	A06857	2028
02				
03				
04				
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08				
09				
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COMMENTS: _____

SOM01.1 (5/2005)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E2P49 CERCLIS No: IND982073785

Case No: 35998 Site Name/Location: Bushem Street (IN)

Contractor or EPA Lab: KAP Data User: IDEM

No. of Samples: 14 Date Sampled or Date Received: 29 Dec 06

Have Chain-of-Custody records been received? Yes X No

Have traffic reports or packing lists been received? Yes X No

If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____

If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes X No

No of samples claimed: ____ No. of samples received: ____

Received by: Adam Johnson Date: 29 Dec 06

Received by LSSS: Adam Johnson Date: 2 Jan 07

Review started: Jan 17, 2007 Reviewer Signature: Allison C Harvey

Total time spent on review: 12.8 hrs Date review completed: Jan 19, 2007

Copied by: A. C. Harvey Date: Jan 22, 2007

Mailed to user by: ____ Date: ____

DATA USER:

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

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

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

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

Received by Data Mgmt. Coordinator for Files. Date: ____

ESAT Controlled Number: ESAT5.05.0002

DATE: February 2, 2007

Indiana Dept of Environmental Management
Office of Environmental/Site Investigation Section
ATTN: Mark Jaworski
P.O. Box 6015
100 N. Senate Avenue
Indianapolis, IN 46206-6015

SITE NAME: Luster Street Groundwater Contamination (IN)

CASE #	LAB	SAMPLES	SDG	MATRIX
35998	KAP	5	E2P61	water

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by:_____ Date:_____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

_____

_____

Received by Data Management Coordinator, CRL for file.

Signature:_____ Date:_____

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Johnson
Data Coordinator
ESAT Region 5 **TechLaw**

RECEIVED
FEB 23 2007
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

Controlled Doc. ESAT5.04.00003

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: January 7, 2007

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

for Steve Ostrodka
Richard L Byrnes
2/2/07

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE Name: Lusher Street Groundwater Contamination (IN)

Case Number: 35998 SDG Number: E2P61

Number and Type of Samples: 5 Waters (Trace VOAs)

Sample Numbers: E2P61, E2P62, E2P64, E2P66, E2P67

Laboratory: KAP Technologies Hrs for Review:

Following are our findings:

the data are usable and acceptable with the qualifications described in the attached narrative.

Richard L Byrnes

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Case Number: 35998
Site Name: Lusher Street Groundwater Contam. (IN)

SDG Number: E2P61
Laboratory: KAP Technologies

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

Five (5) preserved water samples labeled E2P61, E2P62, E2P64, E2P66 and E2P67 were shipped to KAP Technologies. All samples were collected December 12 - 13, 2006 and received on December 15, 2006 intact and properly cooled. All samples were analyzed for only the trace volatile target compounds. All samples were analyzed according to CLP SOW SOM01.1 and reviewed according to the NFG for SOM01.1 and the ESAT Region 5 Organic Data Validation Criteria Matrix.

Sample E2P66 was designated by the samplers to be used for laboratory QC, i.e. matrix spike / matrix spike duplicate analyses.

No samples were identified as trip blanks, field blanks or field duplicates.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: February 1, 2007

Case Number: 35998 SDG Number: E2P61
Site Name: Lusher Street Groundwater Contam. (IN) Laboratory: KAP Technologies

1. HOLDING TIME

No problems were found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found.

3. CALIBRATION

The following trace volatile samples are associated with an initial calibration with relative response factors (RRFs) outside criteria. The compound was not detected in any of the samples. The non-detected compound is qualified "R".

1,4-Dioxane
E2P61, E2P62, E2P62DL, E2P64, E2P66, E2P66MS, E2P66MSD, E2P67, VBLKEM, VBLKET, VHBLK01

The following trace volatile samples are associated with an initial calibration with a percent relative standard deviation (%RSD) that exceeded the criteria of 30%. The compound was not detected in any of the samples. Non-detected compounds are qualified "UJ".

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene
E2P61, E2P62, E2P62DL, E2P64, E2P66, E2P66MS, E2P66MSD, E2P67, VBLKEM

The following trace volatile samples are associated with an initial calibration in which a DMC did not meet relative response factor (RRF) criteria. Sample results are not qualified based on the DMC %RSD or RRF data alone.

1,4-Dioxane-d8
E2P61, E2P62, E2P62DL, E2P64, E2P66, E2P66MS, E2P66MSD, E2P67, VBLKEM, VBLKET, VHBLK01

The following trace volatile samples are associated with a CCV with relative response factors (RRF50) outside criteria. The compound was not detected in any of the samples. The non-detected compound is qualified "R".

1,4-Dioxane
E2P61, E2P62, E2P62DL, E2P64, E2P66, E2P66MS, E2P66MSD, E2P67, VBLKEM, VBLKET, VHBLK01

Case Number: 35998 SDG Number: E2P61
Site Name: Lusher Street Groundwater Contam. (IN) Laboratory: KAP Technologies

The following trace volatile samples are associated with a CCV in which a DMC did not meet relative response factor (RRF) criteria. Sample results are not qualified based on the DMC %D or RRF data alone.

1,4-Dioxane-d8
E2P61, E2P62, E2P62DL, E2P64, E2P66, E2P66MS, E2P66MSD, E2P67, VBLKEM, VBLKET, VHBLK01

4. BLANKS

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

Methylene Chloride
E2P67, VHBLK01

The following trace volatile samples have common contaminant analyte concentrations reported less than 2X the CRQL. The associated method blank has common analyte contaminant concentration less than 2X the concentration criteria. Detected compounds are qualified "U". The non-detect for Methylene chloride is qualified "UJ" because of poor surrogate recovery. Reported sample concentrations have been elevated to the CRQL.

Methylene Chloride
E2P62

The following trace volatile samples have TIC concentrations less than 5X the associated method blank TIC concentration. The detected TIC is considered blank contamination and deleted from the TIC report.

E2P61, E2P62, E2P62DL, E2P64, E2P66, E2P67, VHBLK01

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following trace volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. The compounds were not detected in the sample. Non-detected compounds are not qualified for this criterion. Non-detects for 1,2,4-Trichlorobenzene and 1,2,3-Trichlorobenzene are qualified "UJ" because all calibration criteria were not met.

E2P66
1,1-Dichloroethane, Bromochloromethane, Chloroform, Dibromochloromethane, Chlorobenzene, Bromoform, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

Case Number: 35998 SDG Number: E2P61
Site Name: Lusher Street Groundwater Contam. (IN) Laboratory: KAP Technologies

The following trace volatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than 20%. Non-detected compounds are qualified "UJ". The non-detect for 1,4-Dioxane in sample E2P61 is qualified "R" because all calibration criteria were not met.

E2P61
Trichlorofluoromethane, 1,1-Dichloroethene, 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, 1,4-Dioxane, Dibromochloromethane, 1,2-Dibromoethane, Bromoform

E2P62
Trichlorofluoromethane, 1,1-Dichloroethene, 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, Dibromochloromethane, 1,2-Dibromoethane, Bromoform

E2P62DL
1,1-Dichloroethane, Bromochloromethane, Chloroform, Dibromochloromethane, Bromoform

E2P66, E2P66MS
cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, 1,1,2-Trichloroethane

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E2P66 was designated by the samplers to be used for laboratory QC, i.e. matrix spike/matrix spike duplicate analyses.

The following trace volatile samples reported a %Recovery lower than the lower criteria limit. The compound was not detected in the unspiked sample, E2P66. The non-detected compound is qualified "UJ" in sample E2P66.

E2P66MS
Trichloroethene

6B. LABORATORY CONTROL SAMPLE

Not applicable for the trace volatile analyses.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as trip blanks, field blanks or field duplicates.

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: February 1, 2007

Case Number: 35998 SDG Number: E2P61
Site Name: Lusher Street Groundwater Contam. (IN) Laboratory: KAP Technologies

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

8. INTERNAL STANDARDS

No problems were found.

9. COMPOUND IDENTIFICATION

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

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

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

VBLKEM
Methylene chloride

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

The following volatile sample have analyte concentrations which exceed the instruments calibration range. The detected results are qualified "J". The results from the diluted analyses should be considered the final concentrations for the affected analytes.

E2P62
Trichloroethene

Reviewed by: Allison C Harvey / Techlaw-ESAT
Date: February 1, 2007

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.)

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P61 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33416

Tentatively identified Compounds

VOA Trace Sample=E2P61 Location=DW55 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	15.87	0.75		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P61 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33416

Tentatively identified Compounds

VOA_Trace Sample=E2P62 Location=DW56 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
				UG/L	
	Unknown-02	12.75	0.97		J
	Unknown-03	15.87	0.93		J
	Unknown-04	19.33	0.73		J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P61 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33416

Tentatively identified Compounds

VOA_Trace Sample=E2P62DL Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P61 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33416

Tentatively identified Compounds

VOA Trace Sample=E2P64 Location=DW57 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) . **SDG** E2P61 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33416

Tentatively identified Compounds

VOA_Trace Sample=E2P66 Location=DW58 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

15:25 Fri, Jan 5, 2007

Lab KAP (KAP Technologies Inc) **SDG** E2P61 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33416

Tentatively identified Compounds

VOA_Trace Sample=E2P67 Location=DW59 Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P61 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33416

Tentatively identified Compounds

VOA_Trace Sample=VBLKEM Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	7.45	0.53	UG/L	J
	Unknown-02	10.88	14		J

National Functional Guidelines Report # 9

Lab KAP,(KAP Technologies Inc) **SDG** E2P61 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33416

Tentatively identified Compounds

VOA_Trace Sample=VBLKET Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	10.86	8.8	UG/L	J

National Functional Guidelines Report # 9

Lab KAP (KAP Technologies Inc) **SDG** E2P61 **Case** 35998 **Contract** EPW05032 **Region** 5 **DDTID** 33416

Tentatively identified Compounds

VOA_Trace Sample=VHBLK01 Location=No_TR_data Matrix=Water Level=TRACE

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P61
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

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

Sample Number :	E2P61		E2P62		E2P62DL		E2P64		E2P66	
Sampling Location :	DW55		DW56		DW56		DW57		DW58	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/13/2006		12/13/2006				12/13/2006		12/13/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		2.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	UJ	0.50	UJ	1.0	U	0.50	U	0.50	U
1,1-Dichloroethene	0.50	UJ	0.50	UJ	1.0	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	UJ	0.50	UJ	1.0	U	0.50	U	0.50	U
Acetone	52		46		39		67		55	
Carbon disulfide	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Methyl acetate	0.50	UJ	0.50	UJ	1.0	U	0.50	U	0.50	U
Methylene chloride	0.50	UJ	0.50	UJ	1.0	U	0.50	U	0.50	U
trans-1,2-Dichloroethene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	UJ	0.50	UJ	1.0	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	UJ	0.50	UJ	1.0	UJ	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
2-Butanone	8.1		7.8		10	U	12		9.4	
Bromochloromethane	0.50	UJ	0.50	UJ	1.0	UJ	0.50	U	0.50	U
Chloroform	0.50	UJ	0.50	UJ	1.0	UJ	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	UJ	0.50	UJ	1.0	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	UJ	0.50	UJ	1.0	U	0.50	U	0.50	U
Benzene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	UJ	0.50	UJ	1.0	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	40	R	20	R	20	R
Trichloroethene	15		21	J	18		0.50	U	0.50	UJ
Methylcyclohexane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	UJ
4-Methyl-2-pentanone	5.0	U	5.0	U	10	U	5.0	U	5.0	U
Toluene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	UJ

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P61
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P61		E2P62		E2P62DL		E2P64		E2P66	
Sampling Location :	DW55		DW56		DW56		DW57		DW58	
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :	12/13/2006		12/13/2006				12/13/2006		12/13/2006	
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2		2		2	
Dilution Factor :	1.0		1.0		2.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	UJ
Tetrachloroethene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	10	U	5.0	U	5.0	U
Dibromochloromethane	0.50	UJ	0.50	UJ	1.0	UJ	0.50	U	0.50	U
1,2-Dibromoethane	0.50	UJ	0.50	UJ	1.0	U	0.50	U	0.50	U
Chlorobenzene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
Bromoform	0.50	UJ	0.50	UJ	1.0	UJ	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	1.0	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	UJ	0.50	UJ	1.0	UJ	0.50	UJ	0.50	UJ
1,2,3-Trichlorobenzene	0.50	UJ	0.50	UJ	1.0	UJ	0.50	UJ	0.50	UJ

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P61
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P66MS		E2P66MSD		E2P67		VBLKEM		VBLKET	
Sampling Location :	DW58		DW58		DW59					
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :					12/12/2006					
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2					
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Vinyl chloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromomethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Trichlorofluoromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethene	4.7		4.9		0.50	U	0.50	U	0.50	U
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Acetone	54		53		82		5.0	U	5.0	U
Carbon disulfide	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl acetate	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methylene chloride	0.50	U	0.50	U	0.98	U	0.19	J	0.56	
trans-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Methyl tert-butyl ether	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,2-Dichloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Butanone	9.3		8.8		8.9		5.0	U	5.0	U
Bromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chloroform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,1-Trichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Cyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Carbon tetrachloride	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Benzene	4.5		4.8		0.50	U	0.50	U	0.50	U
1,2-Dichloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dioxane	20	R	20	R	20	R	20	R	20	R
Trichloroethene	3.5		3.8		0.50	U	0.50	U	0.50	U
Methylcyclohexane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromodichloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
cis-1,3-Dichloropropene	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U
4-Methyl-2-pentanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Toluene	4.9		5.4		0.50	U	0.50	U	0.50	U
trans-1,3-Dichloropropene	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P61
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	E2P66MS		E2P66MSD		E2P67		VBLKEM		VBLKET	
Sampling Location :	DW58		DW58		DW59					
Matrix :	Water		Water		Water		Water		Water	
Units :	ug/L		ug/L		ug/L		ug/L		ug/L	
Date Sampled :					12/12/2006					
Time Sampled :										
%Moisture :	N/A		N/A		N/A		N/A		N/A	
pH :	2		2		2					
Dilution Factor :	1.0		1.0		1.0		1.0		1.0	
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	UJ	0.50	U	0.50	U	0.50	U	0.50	U
Tetrachloroethene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
2-Hexanone	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Dibromochloromethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromoethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Chlorobenzene	4.6		4.9		0.50	U	0.50	U	0.50	U
Ethylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
o-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
m,p-Xylene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Styrene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Bromoform	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
Isopropylbenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,1,2,2-Tetrachloroethane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,3-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,4-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dichlorobenzene	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2-Dibromo-3-chloropropane	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U
1,2,4-Trichlorobenzene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U
1,2,3-Trichlorobenzene	0.50	UJ	0.50	UJ	0.50	UJ	0.50	UJ	0.50	U

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P61
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	VHBLK01									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
Dichlorodifluoromethane	0.50	U								
Chloromethane	0.50	U								
Vinyl chloride	0.50	U								
Bromomethane	0.50	U								
Chloroethane	0.50	U								
Trichlorofluoromethane	0.50	U								
1,1-Dichloroethene	0.50	U								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U								
Acetone	5.0	U								
Carbon disulfide	0.50	U								
Methyl acetate	0.50	U								
Methylene chloride	0.76	U								
trans-1,2-Dichloroethene	0.50	U								
Methyl tert-butyl ether	0.50	U								
1,1-Dichloroethane	0.50	U								
cis-1,2-Dichloroethene	0.50	U								
2-Butanone	5.0	U								
Bromochloromethane	0.50	U								
Chloroform	0.50	U								
1,1,1-Trichloroethane	0.50	U								
Cyclohexane	0.50	U								
Carbon tetrachloride	0.50	U								
Benzene	0.50	U								
1,2-Dichloroethane	0.50	U								
1,4-Dioxane	20	R								
Trichloroethene	0.50	U								
Methylcyclohexane	0.50	U								
1,2-Dichloropropane	0.50	U								
Bromodichloromethane	0.50	U								
cis-1,3-Dichloropropene	0.50	U								
4-Methyl-2-pentanone	5.0	U								
Toluene	0.50	U								
trans-1,3-Dichloropropene	0.50	U								

Analytical Results (Qualified Data)

Case #: 35998 SDG : E2P61
Site : LUSHER ST GROUNDWATER
Lab. : KAP
Reviewer :
Date :

Sample Number :	VHBLK01									
Sampling Location :										
Matrix :	Water									
Units :	ug/L									
Date Sampled :										
Time Sampled :										
%Moisture :	N/A									
pH :										
Dilution Factor :	1.0									
Trace Volatile Compound	Result	Flag	Result	Flag	Result	Flag	Result	Flag	Result	Flag
1,1,2-Trichloroethane	0.50	U								
Tetrachloroethene	0.50	U								
2-Hexanone	5.0	U								
Dibromochloromethane	0.50	U								
1,2-Dibromoethane	0.50	U								
Chlorobenzene	0.50	U								
Ethylbenzene	0.50	U								
o-Xylene	0.50	U								
m,p-Xylene	0.50	U								
Styrene	0.50	U								
Bromoform	0.50	U								
Isopropylbenzene	0.50	U								
1,1,2,2-Tetrachloroethane	0.50	U								
1,3-Dichlorobenzene	0.50	U								
1,4-Dichlorobenzene	0.50	U								
1,2-Dichlorobenzene	0.50	U								
1,2-Dibromo-3-chloropropane	0.50	U								
1,2,4-Trichlorobenzene	0.50	U								
1,2,3-Trichlorobenzene	0.50	U								

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE:

SUBJECT: Review of Data
Received for Review on 5 JAN 07

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

TO: Data User: IDEM

We have reviewed the data for the following case:

SITE NAME: Lusher Street Groundwater Contamination (IN)

CASE NUMBER: 35998 SDG NUMBER: E2P61

Number and Type of Samples: (5 water samples)

Sample Numbers: E2P61-62; 64; 66-67

Laboratory: KAP Technologies Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SRT-4J

Contract Laboratory Program

Sample Delivery Group (SDG) Cover Sheet	
SDG Number E2P61	
Laboratory Name Kap Technologies Inc	Lab Code KAP
Contract No. EPW05032	Case No. 35998
Analysis Price _____	SDG Turnaround 21 Days

EPA Sample Numbers in SDG (Listed in Numerical Order)

1) E2P61	7)	13)	19)
2) E2P62	8)	14)	20)
3) E2P64	9)	15)	21)
4) E2P66	10)	16)	22)
5) E2P67	11)	17)	23)
6)	12)	18)	24)

First Sample in SDG	Last Sample in SDG
E2P61	E2P67
First Sample Receipt Date Date	Last Sample Receipt
12/15/06	12/15/06

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

Signature _____ Date 12/21/06

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

Case No: 35998
DAS No:
SDG No: E2P61

L

Date Shipped:	12/14/2006
Carrier Name:	FedEx
Airbill:	811417053113
Shipped to:	KAP Technologies Inc. 9391 Grogans Mill Rd. Suite A2 The Woodlands TX 77380 (281) 367-0065

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1 [signature]	12-14-06 / 4:00 pm		
2			
3			
4		[signature]	12-15-06 0930

Sampler Signature:

For Lab Use Only

Lab Contract No: EPW05032
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
E2P61	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5245041 (HCL) (1)	DW55	S: 12/13/2006	16:16	5-0362.01	1st Sx SDG
E2P62	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5245044 (HCL) (1)	DW56	S: 12/13/2006	16:14	.02	
E2P64	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5245045 (HCL) (1)	DW57	S: 12/13/2006	17:25	.03	
E2P66	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5245046 (HCL), 5245047 (HCL), 5245048 (HCL) (3)	DW58	S: 12/13/2006	16:46	.04	
E2P67	Potable Well/ Mark Jaworski	L/G	TVOA (21)	5245049 (HCL) (1)	DW59	S: 12/12/2006	19:00	.05	Final Sx SDG

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: E2P66	Additional Sampler Signature(s): [signature]	Cooler Temperature Upon Receipt: 2°C	Chain of Custody Seal Number: 185686, 185687
Analysis Key: TVOA = TVOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G		Custody Seal Intact? Y Shipment Iced? Y

TR Number: 5-342946689-121406-0001

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

000398

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

Contract No. EPW05032	Case No. 35998	SDG No. E2P61

SDG NARRATIVE

SAMPLE RECEIPT:

On 12/15/06 @ 09:30 A.M. - Received one cooler via FedEx with shipment numbers 811417053113. The cooler temperature was 2^0C.
The coolers contained the following samples for Trace-VOA analyses.
The custody seals and the samples were intact.

EPA SAMPLE ID	pH	EPA SAMPLE ID	pH
E2P61	<2		
E2P62	<2		
E2P64	<2		
E2P66	<2		
E2P67	<2		
E2P62DL	<2		

No problems were encountered during sample receiving and login.

TRACE VOLATILES:

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

A 25 mL purge volume was used for Trace-water sample analyses, blanks and calibration standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).

The water samples were analyzed for Trace Volatiles in according the SOM 1.1 statement of work.

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

Contract No. EPW05032	Case No. 35998	SDG No. E2P61

SDG NARRATIVE

The sample E2P62 had the target compound concentrations above the calibration range and was analyzed using the dilutions. The samples using the dilutions are also billable.

No other problems were encountered during the analysis of this sample.

Manual Integrations

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

VSTD0.5EI -- 2-Butanone-d5
VSTD0.5EI -- Methyl Acetate
VSTD001EI -Trichlorofluoromethane
VSTD001EI –Carbon Disulfide
VSTD005EI – 2-Butanone
VSTD010EI -Trichlorofluoromethane
VSTD010EI – 1,2-Dichloroethane
VSTD020EI -Trichlorofluoromethane
VSTD0.5ET - Dichlorodifluoromethane
VSTD0.5ET - Methyl Acetate
VSTD001ET -Trichlorofluoromethane
VSTD005ET -Trichlorofluoromethane
VSTD005ET - Methyl Acetate
VSTD005ET –2-Hexanone
VSTD010ET -Trichlorofluoromethane
VSTD010ET - Methyl Acetate
VSTD020ET -Trichlorofluoromethane
VSTD020ET - Methyl Acetate
VSTD005EM -Trichlorofluoromethane
VSTD005EN -Trichlorofluoromethane

The formula used to calculate the Sample concentration:

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

Where,

A_x = Area of the characteristic ion (EICP) for the compound to be measured.
A_{is} = Area of the characteristic ion (EICP) for the internal standard.
Is = Amount of internal standard added in ng.
RRF = Mean relative Response Factor from the initial calibration standard.
V_o = Total Volume of water purged, in ml.
DF = Dilution Factor.

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

Contract No. EPW05032	Case No. 35998	SDG No. E2P61

SDG NARRATIVE

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy 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:

Signature/Title

01/04/2007
Date of Signature

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P61

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	VBLKEM	118	115	88	104	110	114	87
02	E2P62DL	82	80	60	79	77 *	80	91
03	E2P64	127	126	94	114	119	124	89
04	E2P66	129	128	96	107	123 *	127	94
05	E2P66MS	90	86	83	79	83	89	84
06	E2P66MSD	90	87	83	83	84	89	85
07	E2P67	118	121	88	109	114	120	86
08	E2P61	74	74	56	65	71 *	74 *	86
09	E2P62	78	77	57	72	74 *	77 *	92
10	VBLKET	104	108	70	94	92	95	87
11	VH3LK01	111	115	74	105	97	101	90
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	QC LIMITS
VDMC1 (VCL) = Vinyl Chloride-d3	(65-131)
VDMC2 (CLA) = Chloroethane-d5	(71-131)
VDMC3 (DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4 (BUT) = 2-Butanone-d5	(49-155)
VDMC5 (CLF) = Chloroform-d	(78-121)
VDMC6 (DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7 (BEN) = Benzene-d6	(77-124)

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

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P61

Level: (TRACE or LOW) TRACE

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	VBLKEM	88	97	93	92	120	88	124	0
02	E2P62DL	93	100	83	108	61	90	129	1
03	E2P64	90	99	77	101	148	84	131	0
04	E2P66	97	108	60 *	99	140	80	134 *	3
05	E2P66MS	84	92	69 *	94	80	80	121	1
06	E2P66MSD	86	94	75	98	88	83	120	0
07	E2P67	89	96	74	97	149	84	126	0
08	E2P61	88	98	88	92	49 *	93	120	3
09	E2P62	93	101	78	104	99	91	131	2
10	VBLKET	87	91	96	93	99	97	97	0
11	VHBLK01	90	92	97	100	117	102	100	0
12									
13									
14									
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	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

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

3A - FORM III VOA-1
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P61

Matrix Spike - EPA Sample No.: E2P66 Level: (TRACE/LOW) TRACE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	5	0	4.7	94	61-145
Trichloroethene	5	0	3.5	70 *	71-120
Benzene	5	0	4.5	90	76-127
Toluene	5	0	4.9	98	76-125
Chlorobenzene	5	0	4.6	92	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	5	4.9	98	4	14	61-145
Trichloroethene	5	3.8	76	8	14	71-120
Benzene	5	4.8	96	6	11	76-127
Toluene	5	5.4	108	10	13	76-125
Chlorobenzene	5	4.9	98	6	13	75-130

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

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

COMMENTS: _____

_____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKEM

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P61

Lab File ID: A06873 Lab Sample ID: VBLKEM

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/21/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1105

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E2P62DL	S-0362.02DL	A06878	1404
02	E2P64	S-0362.03	A06879	1442
03	E2P66	S-0362.04	A06880	1519
04	E2P66MS	S-0362.04MS	A06882	1630
05	E2P66MSD	S-0362.04MSD	A06883	1706
06	E2P67	S-0362.05	A06884	1740
07	E2P61	S-0362.01	A06885	1816
08	E2P62	S-0362.02	A06886	1852
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COMMENTS: _____

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.
VBLKET

Lab Name: KAP TECHNOLOGIES, INC. Contract: EPW05032

Lab Code: KAP Case No.: 35998 Mod. Ref No.: _____ SDG No.: E2P61

Lab File ID: A06946 Lab Sample ID: VBLKET

Instrument ID: A-5973

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 12/26/2006

Level: (TRACE/LOW/MED) TRACE Time Analyzed: 1605

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLK01	S-0362.06	A06948	1729
02				
03				
04				
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10				
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COMMENTS: _____

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E2P61 CERCLIS No: IND980073785

Case No: 35998 Site Name/Location: Usher Street Groundwater (IN)

Contractor or EPA Lab: KAP Technologies Data User: IDEM

No. of Samples: 5 Date Sampled or Date Received: 5 JAN 07

Have Chain-of-Custody records been received? Yes X No ____
Have traffic reports or packing lists been received? Yes X No ____
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?
Yes ____ No ____
If no, which traffic report or packing list numbers are missing?

____ ____ ____ ____
____ ____ ____ ____

Are basic data forms in? Yes X No ____
No of samples claimed: ____ No. of samples received: ____

Received by: Adam Johnson Date: 5 JAN 07

Received by LSSS: Adam Johnson Date: 11 JAN 07

Review started: January 30, 2007 Reviewer Signature: Allison C Harvey

Total time spent on review: 6.3 hrs Date review completed: Feb 1, 2007

Copied by: A. C. Harvey Date: Feb 2, 2007

Mailed to user by: ____ Date: ____

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

Data received by: ____ Date: ____

Data review received by: ____ Date: ____

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

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

____

____

Received by Data Mgmt. Coordinator for Files. Date: ____

APPENDIX O
Business Location Map

SDMS US EPA Region V

Imagery Insert Form

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APPENDIX O – MAP OF BUSINESS LOCATIONS WITHIN THE IMMEDIATE AREA OF LUSHER AVENUE

Document is available at the EPA Region 5 Records Center.

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APPENDIX P
Key Findings List
Sampling Event #1

Sample_No	Sample_ID	Postal Code Address	SpeciesName	Level	DL	Concentration	Units	MCL_ppb	Detected	Comments_Lab	EstimatedValue	FS_No_of_People
	LQ3562	2120 W Franklin St	Trichlorofluoromethane		1	1.1	ug/L		Yes		No	
	LQ3561	2001 W Franklin St	Trichloroethylene	2	1	1.1	ug/L	5.00	Yes		No	
	LQ3559	1511 Flake St	1,1-Dichloroethylene	2	1	1.2	ug/L	7.00	Yes		No	
	LQ3567	1900 W Indiana Ave	Trichlorofluoromethane		1	1.4	ug/L		Yes		No	
	LQ3563	2031 W Franklin St	Trichloroethylene	2	1	1.5	ug/L	5.00	Yes		No	
	LQ3558	1527 Flake St	1,1-Dichloroethylene	2	1	1.5	ug/L	7.00	Yes		No	
	LQ3554	1212 Waurika St	1,1,1-Trichloroethane	2	1	2	ug/L	200.00	Yes		No	
	LQ3545	1526 Okema St	Trichlorofluoromethane		1	2.2	ug/L		Yes		No	
	LQ3559	1511 Flake St	trans-1,2-Dichloroethylene	2	1	3.7	ug/L	100.00	Yes		No	
	LQ3559	1511 Flake St	1,1-Dichloroethane		1	3.7	ug/L		Yes		No	
	LQ3554	1212 Waurika St	1,1-Dichloroethane		1	3.8	ug/L		Yes		No	
	LQ3556	1510 Flake St	1,1,1-Trichloroethane	2	1	4.1	ug/L	200.00	Yes		No	
	LQ3556	1510 Flake St	cis-1,2-Dichloroethylene	2	1	4.2	ug/L	70.00	Yes		No	
	LQ3567	1900 W Indiana Ave	1,1,1-Trichloroethane	2	1	4.6	ug/L	200.00	Yes		No	
	LQ3560	1665 W Franklin St	1,1,1-Trichloroethane	2	1	4.7	ug/L	200.00	Yes		No	
	LQ3562	2120 W Franklin St	1,1,1-Trichloroethane	2	1	4.7	ug/L	200.00	Yes		No	
	LQ3557	1529 Flake St	trans-1,2-Dichloroethylene	2	1	5.3	ug/L	100.00	Yes		No	
	LQ3564	2000 Vermont St	Bromodichloromethane	2	1	5.7	ug/L	80.00	Yes		No	
	LQ3545	1526 Okema St	1,1,1-Trichloroethane	2	1	5.9	ug/L	200.00	Yes		No	
	LQ3547	1338 Laramie St	1,1,1-Trichloroethane	2	1	6.2	ug/L	200.00	Yes		No	
	LQ3558	1527 Flake St	trans-1,2-Dichloroethylene	2	1	6.2	ug/L	100.00	Yes		No	
	LQ3553	1218 Waurika St	1,1,1-Trichloroethane	2	1	8.2	ug/L	200.00	Yes		No	
	LQ3558	1527 Flake St	1,1-Dichloroethane		1	8.3	ug/L		Yes		No	
	LQ3552	1218 Waurika St	1,1,1-Trichloroethane	2	1	8.8	ug/L	200.00	Yes		No	
	LQ3557	1529 Flake St	1,1-Dichloroethane		1	9.1	ug/L		Yes		No	
	LQ3548	1532 Laramie St	1,1,1-Trichloroethane	2	1	9.1	ug/L	200.00	Yes		No	
	LQ3549	2200 Pennsylvania St	1,1,1-Trichloroethane	2	1	9.3	ug/L	200.00	Yes		No	
	LQ3559	1511 Flake St	cis-1,2-Dichloroethylene	2	1	9.8	ug/L	70.00	Yes		No	
	LQ3550	1407 Waurika St	1,1,1-Trichloroethane	2	1	9.9	ug/L	200.00	Yes		No	
	LQ3542	1520 Okema St	1,1,1-Trichloroethane	2	1	11	ug/L	200.00	Yes		No	
	LQ3564	2000 Vermont St	Chloroform	2	1	11	ug/L	80.00	Yes		No	
	LQ3557	1529 Flake St	cis-1,2-Dichloroethylene	2	1	14	ug/L	70.00	Yes		No	
	LQ3558	1527 Flake St	cis-1,2-Dichloroethylene	2	1	17	ug/L	70.00	Yes		No	
	LQ3560	1665 W Franklin St	Trichloroethylene	1	1	27	ug/L	5.00	Yes		No	
	LQ3557	1529 Flake St	1,1,1-Trichloroethane	2	1	31	ug/L	200.00	Yes		No	
	LQ3559	1511 Flake St	1,1,1-Trichloroethane	2	1	40	ug/L	200.00	Yes		No	
	LQ3557	1529 Flake St	Trichloroethylene	1	1	53	ug/L	5.00	Yes		No	
	LQ3558	1527 Flake St	1,1,1-Trichloroethane	2	1	60	ug/L	200.00	Yes		No	
	LQ3556	1510 Flake St	Trichloroethylene	1	1	75	ug/L	5.00	Yes		No	
	LQ3558	1527 Flake St	Trichloroethylene	1	1	78	ug/L	5.00	Yes		No	
	LQ3559	1511 Flake St	Trichloroethylene	1	1	99	ug/L	5.00	Yes		No	

Event 1 Footnote:

1) No detections of hazardous substances were found in the background samples.

2) Background samples for Event 1 include: LQ3543

APPENDIX Q
Key Findings List
Sampling Event #2

Sample_No	Sample_ID	Postal Code Address	SpeciesName	Level	DL	Concentration	Units	MCL_ppb	Detected	Comments_Lab	EstimatedValue	No_of_People
	LQ3422	2300 17th St	Chlorodibromomethane	2	0	1.4	ug/L	80.00	Yes	RET TIME=6.795Estimated result	Yes	
	LQ3425	2220 19th St	Trichloroethylene	2	1	1.5	ug/L	5.00	Yes		No	
	LQ3427	1825 Leininger Ave	1,1,1-Trichloroethane	2	1	2.1	ug/L	200.00	Yes		No	4
	LQ3418	1800 Markle Ave	Trichloroethylene	2	1	2.2	ug/L	5.00	Yes		No	
	LQ3431	1741 Fieldhouse Ave	Trimethylsilanol		0	2.5	ug/L		Yes	RET TIME=3.615Estimated result	Yes	
	LQ3439	1839 Borneman Ave	1,1,1-Trichloroethane	2	1	2.6	ug/L	200.00	Yes		No	2
	LQ3426	TBK/SevernTrentLab	Trimethylsilanol		0	2.6	ug/L		Yes	RET TIME=3.617Estimated result	Yes	
	LQ3420	1819 Markle Ave	Trimethylsilanol		0	2.6	ug/L		Yes	RET TIME=3.617Estimated result	Yes	
	LQ3417	1710 Markle Ave	1,1,1-Trichloroethane	2	1	2.8	ug/L	200.00	Yes		No	
	LQ3423	2111 17th St	1,1-Dichloroethane		1	3.4	ug/L		Yes		No	
	LQ3424	2111 17th St	1,1-Dichloroethane		1	3.7	ug/L		Yes		No	
	LQ3414	1840 Borneman Ave	1,1,1-Trichloroethane	2	1	3.7	ug/L	200.00	Yes		No	
	LQ3425	2220 19th St	1,1,1-Trichloroethane	2	1	3.7	ug/L	200.00	Yes		No	
	LQ3438	1816 Leininger Ave	1,1,1-Trichloroethane	2	1	4.2	ug/L	200.00	Yes		No	
	LQ3444	1814 Leininger Ave	1,1,1-Trichloroethane	2	1	6.2	ug/L	200.00	Yes		No	
	LQ3443	1814 Leininger Ave	1,1,1-Trichloroethane	2	1	6.4	ug/L	200.00	Yes		No	2
	LQ3417	1710 Markle Ave	2-Butanone		5	7.2	ug/L		Yes		No	
	LQ3416	2033 W Borneman Ave	Bromodichloromethane	2	1	7.2	ug/L	80.00	Yes		No	
	LQ3416	2033 W Borneman Ave	Chloroform	2	1	8.1	ug/L	80.00	Yes		No	
	LQ3422	2300 17th St	Bromodichloromethane	2	1	9.8	ug/L	80.00	Yes		No	
	LQ3423	2111 17th St	1,1-Dichloroethylene	1	1	12	ug/L	7.00	Yes		No	
	LQ3422	2300 17th St	Chloroform	2	1	12	ug/L	80.00	Yes		No	
	LQ3424	2111 17th St	1,1-Dichloroethylene	1	1	13	ug/L	7.00	Yes		No	
	LQ3432	1645 Fieldhouse Ave	1,1,1-Trichloroethane	2	1	15	ug/L	200.00	Yes		No	
	LQ3431	1741 Fieldhouse Ave	Trichloroethylene	1	1	53	ug/L	5.00	Yes		No	
	LQ3417	1710 Markle Ave	Trichloroethylene	1	1	60	ug/L	5.00	Yes		No	
	LQ3424	2111 17th St	1,1,1-Trichloroethane	2	10	130	ug/L	200.00	Yes	DFx10.00	No	
	LQ3423	2111 17th St	1,1,1-Trichloroethane	2	10	150	ug/L	200.00	Yes	DFx10.00	No	

Event 2 Footnote:

1) No detections of hazardous substances were found in the background samples.

2) Background samples for Event 2 include: LQ3441

APPENDIX R
Key Findings List
Sampling Event #3

Sample_No	Sample_ID	Postal Code Address	SpeciesName	Level	DL	Concentration	Units	MCL_ppb	Detected	Comments_Lab	EstimatedValue	No_of_People
DW1	E2NX0	1421 Lamar Ct	cis-1,2-Dichloroethylene	2	0.5	0.52	ug/L	70.00	Yes		No	
DW13	E2NZ2	1520 Albany St	cis-1,2-Dichloroethylene	2	0.5	0.63	ug/L	70.00	Yes		No	
DW5	E2NX4	1520 Albany St	cis-1,2-Dichloroethylene	2	0.5	0.66	ug/L	70.00	Yes	ValidQual: J; ValidQual: J	No	
DW15	E2NZ7	1320 Concord Ave	Methyl Acetate		0.5	0.86	ug/L		Yes		No	1
DW17	E2NZ9	1307 W Hubbard Ave	Methyl Acetate		0.5	0.96	ug/L		Yes		No	
DW9	E2NY8	1911 13th St	Methyl-tert-butyl-ether		0.5	1.4	ug/L		Yes		No	3
DW1	E2NX0	1421 Lamar Ct	Trichloroethylene	1	0.5	25	ug/L	5.00	Yes		No	
DW13	E2NZ2	1520 Albany St	Trichloroethylene	1	0.5	45	ug/L	5.00	Yes	LabQual: E; ValidQual: J	No	
DW5	E2NX4	1520 Albany St	Trichloroethylene	1	0.5	45	ug/L	5.00	Yes	LabQual: E; ValidQual: J	No	

Event 3 Footnote:

1) No detections of hazardous substances were found in the background samples.

2) Background samples for Event 3 include: E2NY9, E2NZ0, and E2NY6

APPENDIX S
Key Findings List
Sampling Events #4 and #5

Sample_No	Sample_ID	Postal Code Address	SpeciesName	Level	DL	Concentration	Units	MCL_ppb	Detected	Comments_Lab	EstimatedValue	No_of_People
DW2	E2P01	1619 Avalon St	1,1-Dichloroethane		0.5	3.3	ug/L		Yes		No	
DW2	E2P01	1619 Avalon St	cis-1,2-Dichloroethylene	2	0.5	4.9	ug/L	70.00	Yes		No	
DW2	E2P01	1619 Avalon St	1,1,1-Trichloroethane	2	0.5	45	ug/L	200.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	
DW2	E2P01	1619 Avalon St	Trichloroethylene	1	0.5	340	ug/L	5.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	
DW11	E2P02	1544 Avalon St	cis-1,2-Dichloroethylene	2	0.5	0.64	ug/L	70.00	Yes		No	3
DW11	E2P02	1544 Avalon St	1,1,1-Trichloroethane	2	0.5	2.6	ug/L	200.00	Yes		No	3
DW11	E2P02	1544 Avalon St	Trichloroethylene	1	0.5	7.4	ug/L	5.00	Yes		No	3
DW3	E2P03	1619 Avalon St	1,1-Dichloroethylene	2	0.5	1.3	ug/L	7.00	Yes		No	
DW3	E2P03	1619 Avalon St	1,1-Dichloroethane		0.5	3	ug/L		Yes		No	
DW3	E2P03	1619 Avalon St	cis-1,2-Dichloroethylene	2	0.5	4.2	ug/L	70.00	Yes		No	
DW3	E2P03	1619 Avalon St	1,1,1-Trichloroethane	2	0.5	43	ug/L	200.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	
DW3	E2P03	1619 Avalon St	Trichloroethylene	1	0.5	370	ug/L	5.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	
DW4	E2P04	1839 Borneman Ave	1,1,1-Trichloroethane	2	0.5	2	ug/L	200.00	Yes		No	2
DW6	E2P06	2033 W Borneman Ave	Chlorodibromomethane	2	0.5	1.4	ug/L	80.00	Yes		No	
DW6	E2P06	2033 W Borneman Ave	Bromodichloromethane	2	0.5	5.5	ug/L	80.00	Yes		No	
DW6	E2P06	2033 W Borneman Ave	Chloroform	2	0.5	15	ug/L	80.00	Yes		No	
DW7	E2P07	1665 W Franklin St	1,1,1-Trichloroethane	2	0.5	4.2	ug/L	200.00	Yes		No	2
DW7	E2P07	1665 W Franklin St	Trichloroethylene	1	0.5	24	ug/L	5.00	Yes	Validator_Qual: J	Yes	2
DW9	E2P08	1840 Borneman Ave	1,1,1-Trichloroethane	2	0.5	3.2	ug/L	200.00	Yes		No	
DW10	E2P09	1544 Avalon St	cis-1,2-Dichloroethylene	2	0.5	0.72	ug/L	70.00	Yes		No	3
DW10	E2P09	1544 Avalon St	1,1,1-Trichloroethane	2	0.5	2.8	ug/L	200.00	Yes		No	3
DW10	E2P09	1544 Avalon St	Trichloroethylene	1	0.5	7.9	ug/L	5.00	Yes		No	3
DW22	E2P10	1527 Flake St	trans-1,2-Dichloroethylene	2	0.5	4.8	ug/L	100.00	Yes	Validator_Qual: J	Yes	2
DW22	E2P10	1527 Flake St	1,1-Dichloroethane		0.5	5.9	ug/L		Yes	Validator_Qual: J	Yes	2
DW22	E2P10	1527 Flake St	cis-1,2-Dichloroethylene	2	0.5	16	ug/L	70.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	2
DW22	E2P10	1527 Flake St	1,1,1-Trichloroethane	2	0.5	50	ug/L	200.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	2
DW22	E2P10	1527 Flake St	Trichloroethylene	1	0.5	67	ug/L	5.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	2
DW16	E2P11	1645 Fieldhouse Ave	1,1,1-Trichloroethane	2	0.5	13	ug/L	200.00	Yes		No	1
DW17	E2P12	1421 Lamar Ct	Trichloroethylene	1	0.5	15	ug/L	5.00	Yes		No	2
DW20	E2P13	1800 Markle Ave	Tetrachloroethylene	2	0.5	0.67	ug/L	5.00	Yes		No	2
DW20	E2P13	1800 Markle Ave	Trichloroethylene	2	0.5	1.6	ug/L	5.00	Yes		No	2
DW19	E2P14	1811 Leininger Ave	1,1,1-Trichloroethane	2	0.5	0.87	ug/L	200.00	Yes		No	3
DW24	E2P16	1529 Flake St	trans-1,2-Dichloroethylene	2	0.5	3.9	ug/L	100.00	Yes		No	0
DW24	E2P16	1529 Flake St	1,1-Dichloroethane		0.5	6.2	ug/L		Yes	Validator_Qual: J	Yes	0
DW24	E2P16	1529 Flake St	cis-1,2-Dichloroethylene	2	0.5	13	ug/L	70.00	Yes		No	0
DW24	E2P16	1529 Flake St	1,1,1-Trichloroethane	2	0.5	23	ug/L	200.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	0
DW24	E2P16	1529 Flake St	Trichloroethylene	1	0.5	43	ug/L	5.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	0
DW21	E2P17	1527 Flake St	trans-1,2-Dichloroethylene	2	0.5	4.9	ug/L	100.00	Yes		No	2
DW21	E2P17	1527 Flake St	1,1-Dichloroethane		0.5	6.2	ug/L		Yes		No	2
DW21	E2P17	1527 Flake St	cis-1,2-Dichloroethylene	2	0.5	16	ug/L	70.00	Yes		No	2
DW21	E2P17	1527 Flake St	1,1,1-Trichloroethane	2	0.5	55	ug/L	200.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	2
DW21	E2P17	1527 Flake St	Trichloroethylene	1	0.5	73	ug/L	5.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	2
DW18	E2P18	1421 Lamar Ct	Trichloroethylene	1	0.5	13	ug/L	5.00	Yes		No	2
DW26	E2P19	1710 Markle Ave	1,1,1-Trichloroethane	2	0.5	2.4	ug/L	200.00	Yes		No	
DW26	E2P19	1710 Markle Ave	2-Butanone		5	47	ug/L		Yes		No	
DW26	E2P19	1710 Markle Ave	Trichloroethylene	1	0.5	63	ug/L	5.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	

Sample_No	Sample_ID	Postal Code Address	SpeciesName	Level	DL	Concentration	Units	MCL_ppb	Detected	Comments_Lab	EstimatedValue	No_of_People
DW27	E2P21	1816 Leininger Ave	1,1,1-Trichloroethane	2	0.5	2.5	ug/L	200.00	Yes		No	1
DW28	E2P23	1822 Markle Ave	1,1,1-Trichloroethane	2	0.5	0.73	ug/L	200.00	Yes		No	2
DW33	E2P26	1650 W Lusher Ave	1,1,1-Trichloroethane	2	0.5	3.2	ug/L	200.00	Yes		No	21
DW44	E2P27	1814 Leininger Ave	1,1-Dichloroethane		0.5	0.66	ug/L		Yes		No	2
DW44	E2P27	1814 Leininger Ave	1,1,1-Trichloroethane	2	0.5	4.8	ug/L	200.00	Yes		No	2
DW45	E2P29	1338 Laramie St	1,1-Dichloroethane		0.5	0.56	ug/L		Yes		No	3
DW45	E2P29	1338 Laramie St	1,1,1-Trichloroethane	2	0.5	4.7	ug/L	200.00	Yes		No	3
DW47	E2P30	210 Fremont St	Methyl-tert-butyl-ether		0.5	1.4	ug/L		Yes		No	3
DW48	E2P31	1212 Waurika St	1,1,1-Trichloroethane	2	0.5	0.85	ug/L	200.00	Yes		No	
DW48	E2P31	1212 Waurika St	Methylene chloride		0.5	1	ug/L		Yes		No	
DW48	E2P31	1212 Waurika St	1,1-Dichloroethane		0.5	2.8	ug/L		Yes		No	
DW49	E2P32	1532 Laramie St	1,1,1-Trichloroethane	2	0.5	7.1	ug/L	200.00	Yes		No	
DW50	E2P33	1741 Fieldhouse Ave	Trichloroethylene	1	0.5	54	ug/L	5.00	Yes	LabQual: E; ValidatorQual: J	Yes	
DW51	E2P34	2200 Pennsylvania St	1,1,1-Trichloroethane	2	0.5	6.7	ug/L	200.00	Yes		No	4
DW46	E2P35	1407 Waurika St	1,1,1-Trichloroethane	2	0.5	9.7	ug/L	200.00	Yes		No	2
DW52	E2P37	2220 19th St	Trichloroethylene	2	0.5	1.1	ug/L	5.00	Yes		No	
DW52	E2P37	2220 19th St	1,1,1-Trichloroethane	2	0.5	2.8	ug/L	200.00	Yes		No	
DW53	E2P38	1218 Waurika St	1,1-Dichloroethane		0.5	0.69	ug/L		Yes		No	
DW53	E2P38	1218 Waurika St	1,1,1-Trichloroethane	2	0.5	5.7	ug/L	200.00	Yes		No	
DW54	E2P39	1510 Flake St	1,1,1-Trichloroethane	2	0.5	2.2	ug/L	200.00	Yes		No	8
DW54	E2P39	1510 Flake St	cis-1,2-Dichloroethylene	2	0.5	14	ug/L	70.00	Yes		No	8
DW54	E2P39	1510 Flake St	Trichloroethylene	1	0.5	58	ug/L	5.00	Yes	LabQual: E; ValidatorQual: J	Yes	8
DW36	E2P40	2031 W Franklin St	Trichloroethylene	2	0.5	1.1	ug/L	5.00	Yes		No	
DW37	E2P41	2001 W Franklin St	1,1,1-Trichloroethane	2	0.5	0.71	ug/L	200.00	Yes		No	9
DW37	E2P41	2001 W Franklin St	Tetrachloroethylene	2	0.5	0.86	ug/L	5.00	Yes		No	9
DW37	E2P41	2001 W Franklin St	Trichloroethylene	2	0.5	1.1	ug/L	5.00	Yes		No	9
DW38	E2P42	2120 W Franklin St	Tetrachloroethylene	2	0.5	0.73	ug/L	5.00	Yes		No	0
DW38	E2P42	2120 W Franklin St	Methylene chloride		0.5	0.78	ug/L		Yes	Lab_Qual: B; Validator_Qual: U	No	0
DW38	E2P42	2120 W Franklin St	1,1-Dichloroethane		0.5	0.97	ug/L		Yes		No	0
DW38	E2P42	2120 W Franklin St	Trichlorofluoromethane		0.5	1.2	ug/L		Yes		No	0
DW38	E2P42	2120 W Franklin St	1,1,1-Trichloroethane	2	0.5	3.7	ug/L	200.00	Yes		No	0
DW39	E2P43	1526 Okema St	Trichlorofluoromethane		0.5	3.4	ug/L		Yes		No	2
DW39	E2P43	1526 Okema St	1,1,1-Trichloroethane	2	0.5	5.6	ug/L	200.00	Yes		No	2
DW40	E2P44	1520 Okema St	Tetrachloroethylene	2	0.5	0.62	ug/L	5.00	Yes		No	2
DW40	E2P44	1520 Okema St	1,1-Dichloroethane		0.5	0.87	ug/L		Yes		No	2
DW40	E2P44	1520 Okema St	Trichlorofluoromethane		0.5	1.5	ug/L		Yes		No	2
DW40	E2P44	1520 Okema St	1,1,1-Trichloroethane	2	0.5	7.8	ug/L	200.00	Yes		No	2
DW42	E2P45	2111 17th St	1,1-Dichloroethane		0.5	4.1	ug/L		Yes		No	
DW42	E2P45	2111 17th St	1,1-Dichloroethylene	1	0.5	16	ug/L	7.00	Yes	Validator_Qual: J	Yes	
DW42	E2P45	2111 17th St	1,1,1-Trichloroethane	2	0.5	140	ug/L	200.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	
DW8	E2P46	1665 W Franklin St	1,1,1-Trichloroethane	2	0.5	3.5	ug/L	200.00	Yes		No	
DW8	E2P46	1665 W Franklin St	Trichloroethylene	1	0.5	21	ug/L	5.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	
DW12	E2P47	2215 W Indiana Ave	1,1,1-Trichloroethane	2	0.5	0.7	ug/L	200.00	Yes		No	
DW13	E2P48	1825 Leininger Ave	1,1,1-Trichloroethane	2	0.5	1.6	ug/L	200.00	Yes		No	4
DW29	E2P49	1913 14th St	Methylene chloride		0.5	1.7	ug/L		Yes		No	
DW41	E2P51	1520 Okema St	Tetrachloroethylene	2	0.5	0.51	ug/L	5.00	Yes		No	2

Sample_No	Sample_ID	Postal Code Address	Species Name	Level	DL	Concentration	Units	MCL_ppb	Detected	Comments_Lab	Estimated Value	No. of People
DW41	E2P51	1520 Okema St	1,1-Dichloroethane		0.5	1.1	ug/L		Yes		No	2
DW41	E2P51	1520 Okema St	Methylene chloride		0.5	2.3	ug/L		Yes		No	2
DW41	E2P51	1520 Okema St	1,1,1-Trichloroethane	2	0.5	4.7	ug/L	200.00	Yes		No	2
DW43	E2P52	1511 Flake St	1,1-Dichloroethane		0.5	2.2	ug/L		Yes	Validator_Qual: J	Yes	8
DW43	E2P52	1511 Flake St	trans-1,2-Dichloroethylene	2	0.5	2.3	ug/L	100.00	Yes		No	8
DW43	E2P52	1511 Flake St	cis-1,2-Dichloroethylene	2	0.5	7.1	ug/L	70.00	Yes		No	8
DW43	E2P52	1511 Flake St	1,1,1-Trichloroethane	2	0.5	39	ug/L	200.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	8
DW43	E2P52	1511 Flake St	Trichloroethylene	1	0.5	100	ug/L	5.00	Yes	Lab_Qual: E; Validator_Qual: J	Yes	8
DW23	E2P53	TBK/IDEM Shadeland Air	Methylene chloride		0.5	5.8	ug/L		Yes	Lab_Qual: B	No	
DW14	E2P54	TBK/IDEM Shadeland Air	Methylene chloride		0.5	5.8	ug/L		Yes		No	
DW31	E2P55	TBK/IDEM Shadeland Air	Methylene chloride		0.5	3.2	ug/L		Yes	LabQual: B; ValidatorQual: U	No	
DW30	E2P56	TBK/IDEM Shadeland Air	Methylene chloride		0.5	7.5	ug/L		Yes	LabQual: B	No	
DW15	E2P57	TBK/IDEM Shadeland Air	Methylene chloride		0.5	7.5	ug/L		Yes	LabQual: B; ValidatorQual: U	No	
DW32	E2P58	2418 19th St	1,1,1-Trichloroethane	2	0.5	0.81	ug/L	200.00	Yes		No	1
DW55	E2P61	1520 Albany St	2-Butanone		5	8.1	ug/L		Yes		No	
DW55	E2P61	1520 Albany St	Trichloroethylene	1	0.5	15	ug/L	5.00	Yes		No	
DW55	E2P61	1520 Albany St	Acetone		5	52	ug/L		Yes		No	
DW56	E2P62	1520 Albany St	2-Butanone		5	7.8	ug/L		Yes		No	
DW56	E2P62	1520 Albany St	Trichloroethylene	1	0.5	21	ug/L	5.00	Yes	Validator_Qual: J	Yes	
DW56	E2P62	1520 Albany St	Acetone		5	46	ug/L		Yes		No	
DW57	E2P64	1309 Concord Ave	2-Butanone		5	12	ug/L		Yes		No	
DW57	E2P64	1309 Concord Ave	Acetone		5	67	ug/L		Yes		No	
DW58	E2P66	1440 S Nappanee St	2-Butanone		5	9.4	ug/L		Yes		No	
DW58	E2P66	1440 S Nappanee St	Acetone		5	55	ug/L		Yes		No	
DW59	E2P67	TBK/IDEM Shadeland Air	Methylene chloride		0.5	0.98	ug/L		Yes	concen orig: 0.5; Lab_Qual: B; V	No	
DW59	E2P67	TBK/IDEM Shadeland Air	2-Butanone		5	9.9	ug/L		Yes		No	
DW59	E2P67	TBK/IDEM Shadeland Air	Acetone		5	82	ug/L		Yes		No	

Event 4/5 Footnote:

1) No detections of hazardous substances were found in the background samples.

2) Background samples for Events 4/5 include: E2P06, E2P50, E2P64, and E2P66

APPENDIX T
Indiana Department on Natural Resources
Well Logs

Well Summary

There were 45 matches.

Click on the Reference Number for more information about any specific well. If you wish to purchase a tab-delimited file, please click "Download Tab-Delimited File".

Download Tab-Delimited File

Reference Number	Driving directions to well		Date completed
46743	TAKE SR 26 W. OUT OF ELKHART TO CABINET SHOP TURN S. ON N. SHORE TO HOUSE. ROAD IS BEFORE YOU GET TO IN. 219		Mar 10, 1993
Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	DONALD HAFER	20573 N. SHORE DRIVE ELKHART,IN.	(219)674-9034
Building Contractor			
Drilling Contractor	TABER'S PUMP&WELL SERVICE	10100 HARRISON ROAD OSCEOLA , IN.	(219)674-8746
Administrative	*County:* Elkhart	*Township:* 37N *Range:* 5E	
	Section: of Section 7	*Topo map:* Elkhart	
	Grant Number:		
	Subdivision name:	*Lot number:*	
	Depth: 45.0		

Reference Number	Driving directions to well		Date completed
46753	FROM ELKHART TAKE SR##33 W TO 27TH ST N TO HOUSE		Jul 03, 1993
Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	ROGER TROYER	59225 PEPPERMINT DR., ELKHART, IN	
Building Contractor			
Drilling Contractor	TABER'S PUMP & WELL SVC.,INC.	10100 HARRISON RD, OSCEOLA, IN	(219)674-8746
Administrative	*County:* Elkhart	*Township:* 37N *Range:* 5E	
	Section: SW of Section 7	*Topo map:* Osceola	
	Grant Number:		
	Subdivision name:	*Lot number:*	
	Depth: 38.0		

Reference Number	Driving directions to well		Date completed
60276	N ON NAPPANEE ST TO INDIANA AVE E 3 BLKS TO EL RENO ST N 1 BLK ON NW CRNR		May 09, 1966
Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	HATHOWAY HOMES	S MAIN ELKHART	
Building Contractor			
Drilling Contractor	ELK CO FARM BUREAU CO	212 W LINCOLN ST GOSHEN	
Administrative	*County:* Elkhart	*Township:* 37N *Range:* 5E	
	Section: NW of the NEof the SW of Section 7	*Topo map:* Elkhart	
	Grant Number:		

Subdivision name: *Lot number:*

Depth: 103.0

Reference Number **60281**

Driving directions to well W BRANCH 1500 S NAPPANEE ST SE CRNR OF INDIANA AVE AND NAPPANEE ST

Date completed

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	ST JOSEPH VALLEY BANK	ELKHART	
Building Contractor			
Drilling Contractor	B J MOORE & SON	ELKHART	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: NW of the NEof the SW of Section 7 *Topo map:* Osceola

Grant Number:

Subdivision name: *Lot number:*

Depth: 53.0

Reference Number **60286**

Driving directions to well US40 TO CR17 N 1 BLOCK TO ELM ST HOUSE ON NE CORNER

Date completed Aug 28, 1973

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	ROBERT BAYLOR	RR ELM ST ELKHART, IN	
Building Contractor			
Drilling Contractor	C E SNELLENBERGER	922 N LAWRENCE ST SOUTH BEND, IN	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SW of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 41.25

Reference Number **60291**

Driving directions to well NAPPANEE ST AND W INDIANA AVE

Date completed Sep 12, 1983

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	BEYER KING		
Building Contractor			
Drilling Contractor	MARTINS WELL DRLG	27046 CR 30 W ELKHART	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SW of the SWof the NW of Section 7 *Topo map:* Osceola

Grant Number:

Subdivision name: *Lot number:*

Depth: 45.0

Reference Number **60296**

Driving directions to well 19 BYPASS TO BRISTOL ST TO LUSHER AVE TURN L L SIDE OF RD

Date completed Jan 10, 1978

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	GASKA TAPE	1830 W LUSHER	
Building Contractor			
Drilling Contractor	B J LEWIS & SONS	M 60 E CASSOPOLIS MI	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SW of the SEof the SW of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 48.0

Reference Number **60301**

Driving directions to well: 19 BYPASS TO BRISTOL ST TO LUSHER AVE L L SIDE OF RD

Date completed: Jan 10, 1978

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	GASKA TAPE	1830 W LUSHER	
Building Contractor			
Drilling Contractor	B J LEWIS & SONS	M 60 E CASSOPOLIS MI	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SW of the SEof the SW of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 54.0

Reference Number **60306**

Driving directions to well: 2 BLKS E OF SR 19 ON W INDIANA AVE THEN 2 BLKS N ON WAURIKA ST

Date completed: Nov 03, 1978

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	ELLARY RANSOM	1228 WAURIKA ST ELKHART	
Building Contractor			
Drilling Contractor	B J MOORE & SON	1606 W INDIANA AVE ELKHART	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SE of the NWof the NW of Section 7 *Topo map:* Osceola

Grant Number:

Subdivision name: *Lot number:*

Depth: 103.0

Reference Number **60311**

Driving directions to well: CRNR OF LAWN AVE AND MASSACHUSSETTS AVE W OF ELKHART ON US 20

Date completed: May 31, 1973

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	LAWRENCE MYERS	503 MASSACHUSETTS AVE ELKHART	
Building Contractor			
Drilling Contractor	GEO P REID & SON	HOWE	(000)562-4801

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: NE of the NEof the NW of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 64.0

Reference Number **60316**

Driving directions to well:

Date completed: Mar 11, 1977

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	WARNER FITZGAROLD	1623 RAINBOW BEND ELKHART	
Building Contractor			
Drilling Contractor	WELTY & SONS	BOX 136 NEW PARIS	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: NW of the NEof the NW of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 62.0

Reference Number **60321** | *Driving directions to well* | *Date completed*

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	ELKHART RUBBER CO	ELKHART, IN	
Building Contractor			
Drilling Contractor	PEERLESS-MIDWEST INC	GRANGER, IN	

Administrative *County:* Elkhart *Township:* 37N *Range:* 5E

Section: SE of the NEof the SE of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 145.0

Reference Number **60326** | *Driving directions to well* 7' N OF PRESSURE TANK IN BUILDING | *Date completed* Jun 28, 1934

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	ELKHART RUBBER CO	ELKHART, IN	
Building Contractor			
Drilling Contractor	LAYNE NORTHERN CO	MISHAWAKA, IN	

Administrative *County:* Elkhart *Township:* 37N *Range:* 5E

Section: SE of the NEof the SE of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 111.0

Reference Number **60331** | *Driving directions to well* | *Date completed* Aug 31, 1965

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	HOMAN LUMBER CO	1650 LUSHER AVE	
Building Contractor			
Drilling Contractor	DEEP REACH WELL DRLG	1722 ARCH ST	

Administrative *County:* Elkhart *Township:* 37N *Range:* 5E

Section: SW of the SWof the SE of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 38.0

Reference Number **60920** | *Driving directions to well* TAKE US 33 N TO ELKHART TO FRANKLIN TO FREMONT ST TURN L | *Date completed* Sep 10, 1982

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	JANET HOLDGAFER	210 FREMONT ELKHART	
Building Contractor			
Drilling Contractor	ELK CO FARM BUREAU COOP	PO BOX M6 GOSHEN	

Administrative	*County:* Elkhart	*Township:* 37N *Range:* 5E	
	Section: SEof the NE of Section 7	*Topo map:* Elkhart	
	Grant Number:		
	Subdivision name:	*Lot number:*	
	Depth: 26.0		

Reference Number	*Driving directions to well*		*Date completed*
60925	W OF DOWNTOWN ELKHART 3 BLKS E OF RT 19 ON INDIANA AVE DRILLED ON EL RENO ST AND INTERSECTION OF PENNSYLVANIA RD		May 18, 1964
Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	RUETHE & AUSTIN PLMB	1420 E RENO ST ELKHART	
Building Contractor			
Drilling Contractor	B KAMM CO	1234 CHIMES	
Administrative	*County:* Elkhart	*Township:* 37N *Range:* 5E	
	Section: of Section 7	*Topo map:* Elkhart	
	Grant Number:		
	Subdivision name:	*Lot number:*	
	Depth: 44.0		

Reference Number	*Driving directions to well*		*Date completed*
60930	50 TO 75' FROM LUSHER AVE AT 1945 LUSHER 30' FROM S BOUNDARY		Jan 22, 1964
Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	MRS CHAS NOFFSINGER	1945 W LUSHER AVE	
Building Contractor			
Drilling Contractor	GANS C E	1722 ARCH ST	
Administrative	*County:* Elkhart	*Township:* 37N *Range:* 5E	
	Section: of Section 7	*Topo map:* Elkhart	
	Grant Number:		
	Subdivision name:	*Lot number:*	
	Depth: 38.0		

Reference Number	*Driving directions to well*		*Date completed*
60935			Oct 13, 1965
Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	PATRICK PLYWOOD	1930 W LUSHER	
Building Contractor			
Drilling Contractor	RIETH & AUSTIN	2676 S MAIN ELKHART	
Administrative	*County:* Elkhart	*Township:* 37N *Range:* 5E	
	Section: of Section 7	*Topo map:* Elkhart	
	Grant Number:		
	Subdivision name:	*Lot number:*	
	Depth: 45.0		

Reference Number	*Driving directions to well*		*Date completed*
60940	CORNER 14TH AND HUBBARD		Dec 16, 1970
Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	LARRY RANDALL	1321 W HUBBARD ELKHART	

Building Contractor			
Drilling Contractor	B J LEWIS & SONS	M 60 E CASSOPOLIS MI	
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E
	Section: of Section 7		*Topo map:* Elkhart
	Grant Number:		
	Subdivision name:		*Lot number:*
	Depth: 43.0		

Reference Number	*Driving directions to well*		*Date completed*
60945	GO S ON MAIN ST IN ELKHART TO FRANKLIN W TO BRIDGE ST R TO 1ST ST TO RIGHT WHICH IS HUDSON TO 1ST ST TO L HEW HSE		Dec 19, 1969
Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	MRS GEORGE HARRIS	712 W FRANKLIN ELKHART	
Building Contractor			
Drilling Contractor	B J LEWIS & SONS	M 60 E CASSOPOLIS	
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E
	Section: NE of Section 7		*Topo map:* Elkhart
	Grant Number:		
	Subdivision name:		*Lot number:*
	Depth: 35.0		

Reference Number	*Driving directions to well*		*Date completed*
60950	US 19 N INTO ELKHART TO ILL AVE TURN E ON ILL TO 1913		Jul 21, 1978
Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	RUTH WISE	1106 N MICHIGAN ST ELKHART	
Building Contractor			
Drilling Contractor	B & W CO	1011 W CLINTON ST GOSHEN	
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E
	Section: of Section 7		*Topo map:* Elkhart
	Grant Number:		
	Subdivision name:		*Lot number:*
	Depth: 30.0		

Reference Number	*Driving directions to well*		*Date completed*
60955			May 09, 1966
Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	HOWARD KAUFFMAN	413 HIGHLAND ELKHART	
Building Contractor			
Drilling Contractor	LAWRENCE K MARTIN WELL DRLG	RR 5 BOX 250 GOSHEN	
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E
	Section: of Section 7		*Topo map:* Elkhart
	Grant Number:		
	Subdivision name:		*Lot number:*
	Depth: 50.0		

Reference Number	*Driving directions to well*	*Date completed*
	S ON NAPPANEE ST IN ELKHART TO MACDONALD REST S OF WATER SEWAGE PLANT TRN E TO	Aug 20, 1980

60960 WAURIKA L TO 1218

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	CORN REALTY	115 S 3RD ST ELKHART	
Building Contractor			
Drilling Contractor	B J LEWIS & SONS	21028 M 60 E CASSOPOLIS MI	

Administrative
County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Osceola
Grant Number:
Subdivision name: *Lot number:*
Depth: 54.0

Reference Number **60965** *Driving directions to well* *Date completed* Mar 13, 1981

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	RONALD DOKE	1400 NAVAJO ELKHART	
Building Contractor			
Drilling Contractor	ORRIN M MARTIN WELL DRLG	27046 R 1 CR 30 W ELKHART	

Administrative
County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Subdivision name: *Lot number:*
Depth: 36.0

Reference Number **60970** *Driving directions to well* US 33 TO SR 19 UNDER RR TO 1ST LIGHT R APRX 1/2 MILES 4TH RD ON L *Date completed*

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	WILLIAM RUSSEL	1544 AVALON ELKHART	
Building Contractor	DICK CORNS REALTY	PO BOX 271 ELKAHRT	
Drilling Contractor	ELKHART CO F B COOP	301 W LINCOLN AVE	

Administrative
County: Elkhart *Township:* 37N *Range:* 5E
Section: NEof the SW of Section 7 *Topo map:* Elkhart
Grant Number:
Subdivision name: *Lot number:*
Depth: 26.0

Reference Number **60975** *Driving directions to well* 3 BLKS E OF SR 19 3 BLKS E ON INDIANA AVE N 2 1/2 BLKS ON EDGEWATER BLVD ACROSS FROM MCNAUGHTON PARK ON W SIDE OF RIVER *Date completed* Oct 08, 1978

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	GRANT HOLMES	1315 EDGEWATER BLVD ELKHART	
Building Contractor			
Drilling Contractor	B J MOORE & SON	1606 W INDIANA AVE ELKHART	

Administrative
County: Elkhart *Township:* 37N *Range:* 5E
Section: SEof the NW of Section 7 *Topo map:* Elkhart
Grant Number:
Subdivision name: *Lot number:*

Depth: 42.0

Reference Number **60980**

Driving directions to well: ST JOE ELKHART CR S TO IND 33 E TO IND 19 R L AT 1ST LIGHT FOLLOW TO LAKLAND AVE L ON L SIDE 3 BLKS DOWN

Date completed: Sep 07, 1979

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	ELKHART RUBBER WORKS	1629 OAKLAND AVE ELKHART	
Building Contractor			
Drilling Contractor	B J LEWIS & SONS	21828 M 60 E CASSOPOLIS MI	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SE of the NEof the SE of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 125.0

Reference Number **60985**

Driving directions to well: 1 BLK N OF W INDIANA AVE

Date completed: Aug 18, 1981

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	WINIFRED BROWN	1411 NAVAJA ST ELKHART	
Building Contractor			
Drilling Contractor	B J MOORE & SONS	1606 W INDIANA AVE ELKHART	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 40.0

Reference Number **60990**

Driving directions to well: INTERSECTION OF NAPPANEE ST AND INDIANA AVE SE CRNR

Date completed: Sep 19, 1975

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	ST JOSEPH VALLEY BANK	1500 NAPPANEE ST ELKHART	
Building Contractor			
Drilling Contractor	B J MOORE & SON	1606 W INDIANA AVE ELKHART	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: NW of the NWof the SW of Section 7 *Topo map:* Osceola

Grant Number:

Subdivision name: *Lot number:*

Depth: 58.0

Reference Number **60995**

Driving directions to well: CRNR OF W LUSHER AND NAPPANEE NEXT TO RR TRACKS

Date completed: Dec 08, 1965

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	PATRICK PLYWOOD	W LUSHER AVE ELKHART	
Building Contractor			
Drilling Contractor	RIETH & AUSTIN	2676 S MAIN ELKHART	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SW of the SWof the SW of Section 7 *Topo map:* Osceola

Grant Number:

Subdivision name: *Lot number:*

Depth: 45.0

Reference Number **119656**

Driving directions to well: .5 BLOCK E OF CR 13 ON N SIDE OF LINDON DR (LINDON IS 1 BLK N OF US-33 OFF CR 13)

Date completed: Aug 03, 1985

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	CLAYTON NEWMAN	23613 LINDON DR ELKHART 46516	
Building Contractor			
Drilling Contractor	GEO P REID & SON	PO BOX 10 N HOWE IN 46746	

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: NW of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth:

Reference Number **132578**

Driving directions to well: 1/2 MILE EAST OF SR19 ON US33, THEN N ON 13TH STREET, 200' ON EAST SIDE.

Date completed: Nov 07, 1994

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	CONRAD HOCHSTETLER	2028 13TH STREET, ELKHART, IN	
Building Contractor			
Drilling Contractor	GRABER'S WELL DRILLING, INC.	7875 W. 075N, SHIPSHEWANA, IN	(219)768-4668

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SE of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth: 50.0

Reference Number **159032**

Driving directions to well: S R 19 N OF C R 20 BEFORE YOU GET TO THE RR OVERPASS AT THE STOPLIGHT TURN R ON LUSKER AVE ABOUT 1/2 BLK ON N SIDE OF STREET

Date completed: Sep 28, 1994

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	GASKA TAPE	1910 W LUSKER AVE ELKHART IN	(219)294-5431
Building Contractor	NEW WAY CONSTRUCTION	17470 C R 34 GOSHEN IN	(219)533-0588
Drilling Contractor	WELTY & SONS	19577 C R 46 NEW PARIS IN	(219)831-2538

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SW of Section 7 *Topo map:* Elkhart

Grant Number:

Subdivision name: *Lot number:*

Depth:

Reference Number **159041**

Driving directions to well: SR 19 N OF CR 20 BEFORE YOU GET TO THE RR OVERPASS AT THE STOP LIGHT TURN R ON LUSHER ABOUT 1/2 BLK ON N SIDE OF STREET

Date completed: Oct 07, 1994

Owner-Contractor	*Name*	*Address*	*Telephone*
Well Owner	GASKA-TAPE	1810 W LUSHER ELKHART IN	(219)294-5431
Building Contractor	NU-WAY CONSTRUCTION	17470 CR 34 GOSHEN IN	(219)533-0588

Drilling Contractor	WELTY & SONS	P O BOX 136 NEW PARIS IN		(219)831-2538
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E	
	Section: SW of Section 7		*Topo map:* Elkhart	
	Grant Number:			
	Subdivision name:		*Lot number:*	
	Depth: 150.0			

Reference Number	*Driving directions to well*			*Date completed*
244262	CO LINE RD S TO 33 TURN E 2.5 MI ON N SIDE OF RD			Jun 22, 1978
Owner-Contractor	*Name*	*Address*		*Telephone*
Well Owner	SWINGER MOTOR HOMES	US 33 W, ELKHART IND		
Building Contractor				
Drilling Contractor	B J LEWIS AND SONS	M 60 E CASSOPOLIS MICH		
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E	
	Section: of Section 7		*Topo map:* Elkhart	
	Grant Number:			
	Subdivision name:		*Lot number:*	
	Depth: 57.0			

Reference Number	*Driving directions to well*			*Date completed*
246365	SR 19 TO ELKHART GO ACROSS US 33 ACROSS RIVER TURN ON 1ST ST RAINBOW GO 2 BLOCKS ON CORNER OF RAINBOW & DOSJEY ST			Sep 27, 1995
Owner-Contractor	*Name*	*Address*		*Telephone*
Well Owner	BILL INMAN	1040 RAINBOW BEND BLUFF ELKHART IN		(219)295-1233
Building Contractor				
Drilling Contractor	WELTY & SONS INC	PO BOX136 NEW PARIS IN		(219)831-2538
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E	
	Section: NW of Section 7		*Topo map:* Elkhart	
	Grant Number:			
	Subdivision name:		*Lot number:*	
	Depth: 70.0			

Reference Number	*Driving directions to well*			*Date completed*
266519	NAPPANEE ST S TO FRANKLIN ST (US HWY 33) GO E ABOUT .25 MI, BLDG (ABOUT 3RD) ON R H (S) SIDE			Oct 18, 1995
Owner-Contractor	*Name*	*Address*		*Telephone*
Well Owner	D & M GLASS	2001 W FRANKLIN ST, ELKHART		(219)294-6481
Building Contractor				
Drilling Contractor	BOH'S WELL DRILLING, INC.	1111 DI DR, ELKHART,		(219)266-6021
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E	
	Section: SW of Section 7		*Topo map:* Elkhart	
	Grant Number:			
	Subdivision name:		*Lot number:*	
	Depth: 43.0			

Reference Number	*Driving directions to well*	*Date completed*
277023	E OF PLANT E OF NAPPANEE ST WELL 2 BANDONED AND SEALED	Jul 12, 1996

Owner-Contractor	Name	Address	Telephone
Well Owner	ELKHART WASTEWATER TRTMT PLT	1201 S NAPPANEE ST ELKHART IN	
Building Contractor			
Drilling Contractor	PEERLESS MIDWEST INC	51255 BITTERSWEET RD PO BX 26 GRANGER IN	(219)272-9050

Administrative
County: Elkhart *Township:* 37N *Range:* 5E
Section: SE of the NWof the NW of Section 7 *Topo map:* Osceola
Grant Number:
Subdivision name: *Lot number:*
Depth:

Reference Number **301693**

Driving directions to well: 3' N OF NADEL AVE & 200' W OF HESTER ST

Date completed: Aug 01, 1997

Owner-Contractor	Name	Address	Telephone
Well Owner	ELKHART PUBLIC WORKS	1201 S NAPPANEE ST., ELKHART, IN	
Building Contractor			
Drilling Contractor	PEERLESS-MIDWEST INC.	55860 RUSSELL IND. PKWY., MISHAWAKA, IN	(219)254-9050

Administrative
County: Elkhart *Township:* 37N *Range:* 5E
Section: NE of the NWof the NE of Section 7 *Topo map:* Elkhart
Grant Number:
Subdivision name: *Lot number:*
Depth: 13.5

Reference Number **325682**

Driving directions to well: SR19 GO S TO INDIANA AVE GO E TO EDGEWATER BLVD (BEFORE LIGHT AT FRANKLIN) GO N (LT) ABOUT 1 BLK ON S (LT) SD

Date completed: Apr 28, 1999

Owner-Contractor	Name	Address	Telephone
Well Owner	MICHAEL LERCH	1337 EDGEWATER BLVD., ELKHART, IN	(219)294-6046
Building Contractor			
Drilling Contractor	BOHS WELL DRLNG INC.	1111 DI DRIVE, ELKHART, IN	(219)266-6021

Administrative
County: Elkhart *Township:* 37N *Range:* 5E
Section: NW1/4 of the SE¼of the NW¼ of Section 7 *Topo map:* Elkhart
Grant Number:
Subdivision name: *Lot number:*
Depth: 50.0

Reference Number **345085**

Driving directions to well: CR 7, GO S TO BRISTOL ST, GO W TO SR 19, GO S TO INDIANA AVE - CR 16 - GO E 2-3 BLOCKS NE CORNER OF OKEMA & E INDIANA AVE

Date completed: Oct 19, 2000

Owner-Contractor	Name	Address	Telephone
Well Owner	JACK HURLEY	2016 W INDIANA AVE ELKHART IN	(219)295-5311
Building Contractor			
Drilling Contractor	BOHS WELL DRILLING INC	1111 DI DR ELKHART IN	(219)266-6021

Administrative
County: Elkhart *Township:* 37N *Range:* 5E
Section: NE of Section 7 *Topo map:* Elkhart
Grant Number:
Subdivision name: *Lot number:*
Depth: 57.0

Reference Number	Driving directions to well			Date completed
347211	W OF OAKLAND AVE 1 BLK ON LUSHES THENN 1 BLK TO CONCORD .5 BLK S SD			Aug 17, 2000
Owner-Contractor	*Name*	*Address*		*Telephone*
Well Owner	TODD SUOMELA	1309 CONCORD AVE., ELKHART,IN		(219)522-4422
Building Contractor				
Drilling Contractor	MARTIN~S WELL DRILLING	27046 CR30 W ELKHART, IN		(219)862-2318
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E	
	Section: SE1/4 of Section 7		*Topo map:* Elkhart	
	Grant Number:			
	Subdivision name:		*Lot number:*	
	Depth: 48.0			

Reference Number	Driving directions to well			Date completed
351423	2 MI SW OF OAKLAND AVE ON LUSHER THEN N 1 BLK ON W SD AT #1913			May 11, 2001
Owner-Contractor	*Name*	*Address*		*Telephone*
Well Owner	ELKHART PLATING	1913 S. 14TH ELKHART, IN		(219)294-1800
Building Contractor				
Drilling Contractor	MARTIN'S WELL DRILLING	27046 CR30 W ELKHART, IN		(219)862-2318
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E	
	Section: of Section 7		*Topo map:* Elkhart	
	Grant Number:			
	Subdivision name:		*Lot number:*	
	Depth: 51.0			

Reference Number	Driving directions to well			Date completed
352750	TAKE CR7 S TO BRISTOL ST (SR20) GO E TO NAPPANEE ST (SR19) S TO FRANKLIN ST (US33) GO E ABOUT .25 MI, BLDG (ABOUT 3RD) ON S (RT) SD			May 17, 2001
Owner-Contractor	*Name*	*Address*		*Telephone*
Well Owner	D & M GLASS	2001 W. FRANKLIN ST., ELKHART, IN		(219)294-6481
Building Contractor				
Drilling Contractor	BOHS WELL DRILLING INC.	1111 D.I. DRIVE, ELKHART, IN		(219)266-6021
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E	
	Section: SW of Section 7		*Topo map:* Elkhart	
	Grant Number:			
	Subdivision name:		*Lot number:*	
	Depth: 63.0			

Reference Number	Driving directions to well			Date completed
378988	N OF LUSHER AVE, COUPLE BLOCKS ON W SIDE			Oct 08, 2003
Owner-Contractor	*Name*	*Address*		*Telephone*
Well Owner	ELKHART PLATING	1913 14TH ST S ELKHART, IND		(574)294-1800
Building Contractor				
Drilling Contractor	MARTIN'S WELL DRILLING	27046 CR 30W ELKHART, IND		(574)862-2318
Administrative	*County:* Elkhart		*Township:* 37N *Range:* 5E	
	Section: SE of Section 7		*Topo map:* Elkhart	
	Grant Number:			

Subdivision name: ***Lot number:***

Depth: 108.0

Download Site Delimited File

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
46743	TAKE SR 26 W. OUT OF ELKHART TO CABINET SHOP TURN S. ON N. SHORE TO HOUSE. ROAD IS BEFORE YOU GET TO IN. 219	Mar 10, 1993

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	DONALD HAFER	20573 N. SHORE DRIVE ELKHART,IN.	(219) 674-9034
Driller	TABER'S PUMP&WELL SERVICE	10100 HARRISON ROAD OSCEOLA , IN.	(219) 674-8746
Operator	DONALD TABER	License: 174	

Construction Details

Well	*Use:* HOME	*Drilling method:* Rotary	*Pump type:* SUBMERSIBLE
	Depth: 45.0	*Pump setting depth:* 35.0	*Water quality:* CLEAR
Casing	*Length:* 40.0	*Material:* PVC	*Diameter:* 4.0
Screen	*Length:* 5.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* 16

Well Capacity Test

Type of test: AIR *Test rate:* 35.0 gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 9.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: BENSEAL *Depth:* from 40.0 to 15.0
Installation Method: PRESS *Number of bags used:* 1.0

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	15.0	RED DIRT

Comments SEE MAP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
46753	FROM ELKHART TAKE SR##33 W TO 27TH ST N TO HOUSE	Jul 03, 1993

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ROGER TROYER	59225 PEPPERMINT DR., ELKHART, IN	
Driller	TABER'S PUMP & WELL SVC.,INC.	10100 HARRISON RD, OSCEOLA, IN	(219) 674-8746
Operator	SCOTT TABER	License: 175	

Construction Details

Well	*Use:* HOME	*Drilling method:* Rotary	*Pump type:* SUBMERSIBLE
	Depth: 38.0	*Pump setting depth:* 20.0	*Water quality:* CLEAR
Casing	*Length:* 33.0	*Material:* PVC	*Diameter:* 4.0
Screen	*Length:* 5.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* 16

Well Capacity Test

Type of test: AIR *Test rate:* 35.0 gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 10.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: BNSL *Depth:* from 33.0 to 10.0
Installation Method: PRESSURE PUMPING *Number of bags used:* 1.0

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SW of Section 7 *Topo map:* Osceola
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	38.0	S&G

Comments SEE MAP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60276	N ON NAPPANEE ST TO INDIANA AVE E 3 BLKS TO EL RENO ST N 1 BLK ON NW CRNR	May 09, 1966

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	HATHOWAY HOMES	S MAIN ELKHART	
Driller	ELK CO FARM BUREAU CO	212 W LINCOLN ST GOSHEN	
Operator	KENNETH D WELTY	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 103.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:*	*Material:*	*Diameter:*
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 12

Well Capacity Test			
	Type of test:	*Test rate:* 36.3 gpm for hrs.	*BailTest rate:* gpm for hrs.
	Drawdown: 36.3 ft.	*Static water level:* 5.0 ft.	*Bailer Drawdown* ft.

Grouting Information		
	Material:	*Depth:* from to
	Installation Method:	*Number of bags used:*

Well Abandonment		
	Sealing material:	*Depth:* from to
	Installation Method:	*Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: NW of the NEof the SW of Section 7 *Topo map:* Elkhart

Grant Number:

Field located by: *on:*

Courthouse location by: *on:*

Location accepted w/o verification by: LSV *on:* May 20, 1976

Subdivision name: *Lot number:*

Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*

Ground elevation: 750.0 ? *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*

UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	BLANK
1.0	15.0	GRAV
15.0	83.0	CLAY & GRAV
83.0	95.0	FINE SAND
95.0	103.0	CRS GRAV

Comments BASE MAP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60281	W BRANCH 1500 S NAPPANEE ST SE CRNR OF INDIANA AVE AND NAPPANEE ST	

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ST JOSEPH VALLEY BANK	ELKHART	
Driller	B J MOORE & SON	ELKHART	
Operator	WAYNE L MOORE	License: null	

Construction Details

Well	*Use:* PS	*Drilling method:* Cable Tool	*Pump type:*
	Depth: 53.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 43.0	*Material:*	*Diameter:* 4.0
Screen	*Length:* 10.0	*Material:*	*Diameter:* 3.5 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 60.0 gpm for 4.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 0.0 ft. *Static water level:* 16.6 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NW of the NEof the SW of Section 7 *Topo map:* Osceola
Grant Number:
Field located by: BOB O *on:* Jul 01, 1973
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: 745.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 690.0
UTM Easting: 583009.0 *UTM Northing:* 4613862.0

Well Log

Top	Bottom	Formation
0.0	25.0	CRS BRN S&G
25.0	45.0	SANDY BRN CLAY
45.0	53.0	MED CRS BRN SAND

Comments MC

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60286	US40 TO CR17 N 1 BLOCK TO ELM ST HOUSE ON NE CORNER	Aug 28, 1973

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ROBERT BAYLOR	RR ELM ST ELKHART, IN	
Driller	C E SNELLENBERGER	922 N LAWRENCE ST SOUTH BEND, IN	
Operator	CE SNLNBRGR & GLEN RETRUCK	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 41.25	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 32.25	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 60

Well Capacity Test

Type of test: *Test rate:* 15.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 20.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SW of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: LSV *on:* May 01, 1976
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: 780.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	2.0	TOP SOIL
2.0	6.0	SAND W/BROWN CLAY
6.0	41.25	S&G

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60291	NAPPANEE ST AND W INDIANA AVE	Sep 12, 1983

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	BEYER KING		
Driller	MARTINS WELL DRLG	27046 CR 30 W ELKHART	
Operator	LAWRENCE MARTIN	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Rotary	*Pump type:*
	Depth: 45.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 40.0	*Material:*	*Diameter:* 4.0
Screen	*Length:*	*Material:*	*Diameter: Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* 60.0 gpm for 0.5 hrs.
Drawdown: ft. *Static water level:* 15.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SW of the SWof the NW of Section 7 *Topo map:* Osceola
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: SU *on:* Jan 01, 1992
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: 750.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	20.0	SAND
20.0	25.0	CLAY
25.0	45.0	GRAV

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60296	19 BYPASS TO BRISTOL ST TO LUSHER AVE TURN L L SIDE OF RD	Jan 10, 1978

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	GASKA TAPE	1830 W LUSHER	
Driller	B J LEWIS & SONS	M 60 E CASSOPOLIS MI	
Operator	TERRY DAVIS	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Jet	*Pump type:*
	Depth: 48.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 42.0	*Material:*	*Diameter:* 4.5
Screen	*Length:* 6.0	*Material:*	*Diameter:* 3.75 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 60.0 gpm for 1.0 hrs. *BailTest rate:* 60.0 gpm for 1.0 hrs.
Drawdown: ft. *Static water level:* 14.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SW of the SEof the SW of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: RPP *on:* Jul 21, 1983
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 3500.0 *Ft N of SL:* 425.0 *Ft E of WL:* *Ft S of NL:*
Ground elevation: 753.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 705.0
UTM Easting: 583439.0 *UTM Northing:* 4613213.0

Well Log

Top	Bottom	Formation
0.0	1.0	SURFACE
1.0	6.0	BLANK
6.0	25.0	RED CLAY
11.0	36.0	SAND & RED CLAY
12.0	48.0	CRS SAND
18.0	19.0	FILL

Comments NOTE WELL IS A RETURN WELL FOR INDUSTRIAL COOLING FURNACES MC

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60301	19 BYPASS TO BRISTOL ST TO LUSHER AVE L L SIDE OF RD	Jan 10, 1978

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	GASKA TAPE	1830 W LUSHER	
Driller	B J LEWIS & SONS	M 60 E CASSOPOLIS MI	
Operator	TERRY DAVIS	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Jet	*Pump type:*
	Depth: 54.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 48.0	*Material:*	*Diameter:* 4.5
Screen	*Length:* 6.0	*Material:*	*Diameter:* 3.75 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 60.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 14.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SW of the SEof the SW of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: RPD *on:* Jul 21, 1983
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 3450.0 *Ft N of SL:* 425.0 *Ft E of WL:* *Ft S of NL:*
Ground elevation: 753.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 699.0
UTM Easting: 583466.0 *UTM Northing:* 4613213.0

Well Log

Top	Bottom	Formation
0.0	1.0	SURFACE
1.0	5.0	BLANK
6.0	25.0	RED CLAY
10.0	54.0	CRS SAND
18.0	19.0	FILL
19.0	44.0	SAND & RED CLAY

Comments MC NOTE WELL IS PUMPING WELL FOR COOLING FURNACES FOR INDUSTRY

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60306	2 BLKS E OF SR 19 ON W INDIANA AVE THEN 2 BLKS N ON WAURIKA ST	Nov 03, 1978

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ELLARY RANSOM	1228 WAURIKA ST ELKHART	
Driller	B J MOORE & SON	1606 W INDIANA AVE ELKHART	
Operator	WAYNE L MOORE	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 103.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 98.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 5.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* 15.0 gpm for 2.0 hrs.
Drawdown: ft. *Static water level:* 4.75 ft. *Bailer Drawdown* 0.0 ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SE of the NWof the NW of Section 7 *Topo map:* Osceola
Grant Number:
Field located by: JCA *on:* Jun 01, 1985
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* 750.0 *Ft S of NL:* 1100.0
Ground elevation: 726.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 623.0
UTM Easting: 583214.0 *UTM Northing:* 4614326.0

Well Log

Top	Bottom	Formation
0.0	10.0	CNSLD BRN CLAY S&STONES HP
10.0	16.0	VRY CRS BRN GRAV & STONES
16.0	80.0	VRY FINE BRN SAND CLAY
80.0	96.0	SANDY BLUE CLAY
96.0	98.0	VRY CRS GRAY GRAV & STONES
98.0	103.0	VRY CRS BRN GRAV & STONES

Comments MC 623 OWNER VERIFIED

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60311	CRNR OF LAWN AVE AND MASSACHUSSETTS AVE W OF ELKHART ON US 20	May 31, 1973

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	LAWRENCE MYERS	503 MASSACHUSETTS AVE ELKHART	
Driller	GEO P REID & SON	HOWE	(000) 562-4801
Operator	TODD GOTSHALL	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 64.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 58.0	*Material:*	*Diameter:* 4.0
Screen	*Length:* 6.0	*Material:*	*Diameter:* 3.87 *Slot size:* 12

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 25.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NE of the NEof the NW of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: MFC *on:* Jun 18, 1985
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 2900.0 *Ft N of SL:* *Ft E of WL:* *Ft S of NL:* 400.0
Ground elevation: 745.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 681.0
UTM Easting: 583601.0 *UTM Northing:* 4614552.0

Well Log

Top	Bottom	Formation
0.0	20.0	DRY GRAV
20.0	35.0	VEIN
35.0	54.0	CLAY & GRAV
54.0	64.0	VEIN GRAV

Comments MC 681 MAILBOX VERIFIED

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60316		Mar 11, 1977

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	WARNER FITZGAROLD	1623 RAINBOW BEND ELKHART	
Driller	WELTY & SONS	BOX 136 NEW PARIS	
Operator	JEFF TRUEX	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 62.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 59.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 3.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 18.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NW of the NEof the NW of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: MFC *on:* Jun 18, 1985
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 3900.0 *Ft N of SL:* *Ft E of WL:* *Ft S of NL:* 175.0
Ground elevation: 744.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 682.0
UTM Easting: 583308.0 *UTM Northing:* 4614623.0

Well Log

Top	Bottom	Formation
0.0	18.0	RED SAND
18.0	51.0	S&G & CLAY
51.0	62.0	S&G

Comments MC 682 OWNER VERIFIED

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60321		

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ELKHART RUBBER CO	ELKHART, IN	
Driller	PEERLESS-MIDWEST INC	GRANGER, IN	

Construction Details

Well	*Use:*	*Drilling method:*	*Pump type:*
	Depth: 145.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:*	*Material:*	*Diameter:*
Screen	*Length:*	*Material:*	*Diameter: Slot size:*

Well Capacity Test

Type of test: *Test rate:* 340.0 gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 13.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SE of the NEof the SE of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: MFC *on:* Jun 18, 1985
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 400.0 *Ft N of SL:* 1800.0 *Ft E of WL:* *Ft S of NL:*
Ground elevation: 754.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 659.0
UTM Easting: 584369.0 *UTM Northing:* 4613631.0

Well Log

Top	Bottom	Formation
0.0	145.0	BLANK

Comments MC-659 WELL #4 TYPE OF WELL-TUBULAR

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60326	7' N OF PRESSURE TANK IN BUILDING	Jun 28, 1934

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ELKHART RUBBER CO	ELKHART, IN	
Driller	LAYNE NORTHERN CO	MISHAWAKA, IN	
Operator	INDIANA-MICHIGAN WATER DEV CO	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Cable Tool	*Pump type:*
	Depth: 111.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 91.5	*Material:*	*Diameter:* 12.0
Screen	*Length:* 20.0	*Material:*	*Diameter:* 12.0 *Slot size:* 25

Well Capacity Test

Type of test: *Test rate:* 225.0 gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: 10.0 ft. *Static water level:* 13.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SE of the NEof the SE of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: MFC *on:* Jun 18, 1985
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 650.0 *Ft N of SL:* 1825.0 *Ft E of WL:* *Ft S of NL:*
Ground elevation: 754.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 643.0
UTM Easting: 584303.0 *UTM Northing:* 4613644.0

Well Log

Top	Bottom	Formation
0.0	36.0	SAND NO WATER
36.0	65.0	WATER SAND REDDISH WATER
65.0	67.0	BROWN CLAY VERY SOFT
67.0	111.0	WATER S&G

Comments MC-643 WELL #2

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60331		Aug 31, 1965

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	HOMAN LUMBER CO	1650 LUSHER AVE	
Driller	DEEP REACH WELL DRLG	1722 ARCH ST	
Operator	C E GANS	License: null	

Construction Details

Well	*Use:* PS	*Drilling method:* Jet	*Pump type:*
	Depth: 38.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 18.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 10.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 6.0 ft. *Static water level:* 15.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SW of the SWof the SE of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: BOB O *on:* Jul 01, 1973
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 2300.0 *Ft N of SL:* 200.0 *Ft E of WL:* *Ft S of NL:*
Ground elevation: 750.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 710.0
UTM Easting: 583820.0 *UTM Northing:* 4613137.0

Well Log

Top	Bottom	Formation
0.0	38.0	BLANK
38.0	0.0	GRAV

Comments MC

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60920	TAKE US 33 N TO ELKHART TO FRANKLIN TO FREMONT ST TURN L	Sep 10, 1982

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	JANET HOLDGAFER	210 FREMONT ELKHART	
Driller	ELK CO FARM BUREAU COOP	PO BOX M6 GOSHEN	
Operator	WAYNE STUTZMAN	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 26.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 22.0	*Material:*	*Diameter:*
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 23.3 gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 12.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SEof the NE of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: SU *on:* Feb 01, 1992
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: 798.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	5.0	TOP SOIL
5.0	18.0	BRN CLAY & ROCK
18.0	26.0	S&G

Comments:

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60925	W OF DOWNTOWN ELKHART 3 BLKS E OF RT 19 ON INDIANA AVE DRILLED ON EL RENO ST AND INTERSECTION OF PENNSYLVANIA RD	May 18, 1964

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	RUETHE & AUSTIN PLMB	1420 E RENO ST ELKHART	
Driller	B KAMM CO	1234 CHIMES	
Operator	WILLIAM KAMM	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 44.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 40.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 40.0	*Material:*	*Diameter:* 1.0 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 11.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 0.0 ft. *Static water level:* 26.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	28.0	S&G
28.0	38.0	CLAY
38.0	44.0	SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60930	50 TO 75' FROM LUSHER AVE AT 1945 LUSHER 30' FROM S BOUNDARY	Jan 22, 1964

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	MRS CHAS NOFFSINGER	1945 W LUSHER AVE	
Driller	GANS C E	1722 ARCH ST	
Operator	GANS C E	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 38.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:*	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.75 *Slot size:* 29-10

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 16.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	40.0	BLANK
40.0	55.0	HEAVY BROWN GRAVEL

Comments:

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60935		Oct 13, 1965

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	PATRICK PLYWOOD	1930 W LUSHER	
Driller	RIETH & AUSTIN	2676 S MAIN ELKHART	
Operator	JACK MACAULEY	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Cable Tool	*Pump type:*
	Depth: 45.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 41.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 60

Well Capacity Test

Type of test: *Test rate:* 15.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 1.0 ft. *Static water level:* 16.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	13.0	SAND & FINE GRAV
13.0	15.0	CLAY & FINE GRAV
15.0	21.0	CLAY
21.0	30.0	SAND
30.0	45.0	SAND LRG GRAV

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60940	CORNER 14TH AND HUBBARD	Dec 16, 1970

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	LARRY RANDALL	1321 W HUBBARD ELKHART	
Driller	B J LEWIS & SONS	M 60 E CASSOPOLIS MI	
Operator	MICHAEL GRAHL	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 43.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 18.0	*Material:*	*Diameter:* 2.375
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 60-60

Well Capacity Test

Type of test: *Test rate:* 15.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 15.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	SURFACE
1.0	15.0	SAND
15.0	30.0	GRAV
30.0	39.0	S&G
39.0	43.0	CRS GRAV SCREENED

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60945	GO S ON MAIN ST IN ELKHART TO FRANKLIN W TO BRIDGE ST R TO 1ST ST TO RIGHT WHICH IS HUDSON TO 1ST ST TO L HEW HSE	Dec 19, 1969

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	MRS GEORGE HARRIS	712 W FRANKLIN ELKHART	
Driller	B J LEWIS & SONS	M 60 E CASSOPOLIS	
Operator	OTTO BICKEL JR	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:*	*Pump type:*
	Depth: 35.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 18.0	*Material:*	*Diameter:* 2.375
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 60-60

Well Capacity Test

Type of test: *Test rate:* 15.0 gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 2.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NE of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	SURFACE
1.0	18.0	CLAY & STONE
18.0	20.0	FINE RED SAND
20.0	31.0	RED S&G
31.0	35.0	WHITE SAND SCREENED

Comments:

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60950	US 19 N INTO ELKHART TO ILL AVE TURN E ON ILL TO 1913	Jul 21, 1978

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	RUTH WISE	1106 N MICHIGAN ST ELKHART	
Driller	B & W CO	1011 W CLINTON ST GOSHEN	
Operator	BILLY E STUTZMAN	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 30.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 26.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 10.0 gpm for 0.25 hrs. *BailTest rate:* 20.0 gpm for 0.5 hrs.
Drawdown: 0.0 ft. *Static water level:* 20.0 ft. *Bailer Drawdown* 0.0 ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.5	TOP SOIL
1.5	30.0	S&G

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60955		May 09, 1966

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	HOWARD KAUFFMAN	413 HIGHLAND ELKHART	
Driller	LAWRENCE K MARTIN WELL DRLG	RR 5 BOX 250 GOSHEN	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 50.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:*	*Material:*	*Diameter:* 2.0
Screen	*Length:* 6.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* 25.0 gpm for hrs.
Drawdown: ft. *Static water level:* 23.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	BLANK
1.0	25.0	GRAV
25.0	35.0	CLAY & SAND
35.0	50.0	CRS SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60960	S ON NAPPANEE ST IN ELKHART TO MACDONALD REST S OF WATER SEWAGE PLANT TRN E TO WAURIKA L TO 1218	Aug 20, 1980

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	CORN REALTY	115 S 3RD ST ELKHART	
Driller	B J LEWIS & SONS	21028 M 60 E CASSOPOLIS MI	
Operator	ROBERT WILLARD	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 54.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 50.0	*Material:*	*Diameter:* 2.375
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 90

Well Capacity Test

Type of test: *Test rate:* 19.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 8.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Osceola
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	SURFACE
1.0	10.0	CLAY
10.0	25.0	CLAY & STONE
25.0	45.0	FINE SAND
45.0	49.0	SAND
49.0	54.0	SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60965		Mar 13, 1981

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	RONALD DOKE	1400 NAVAJO ELKHART	
Driller	ORRIN M MARTIN WELL DRLG	27046 R 1 CR 30 W ELKHART	
Operator	ORRIN MARTIN	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 36.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 30.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 3.5	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* 15.0 gpm for 0.5 hrs.
Drawdown: ft. *Static water level:* 15.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	18.0	BLANK
18.0	29.0	CLAY
29.0	36.0	BRN SAND

Comments

037

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60970	US 33 TO SR 19 UNDER RR TO 1ST LIGHT R APRX 1/2 MILES 4TH RD ON L	

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	WILLIAM RUSSEL	1544 AVALON ELKHART	
Driller	ELKHART CO F B COOP	301 W LINCOLN AVE	
Operator	JERRY SCHOENAUER	License: null	
Company	DICK CORNS REALTY	PO BOX 271 ELKAHRT	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 26.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 22.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 14.2 gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 17.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NEof the SW of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	10.0	TOP SOIL
10.0	76.0	S&G

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60975	3 BLKS E OF SR 19 3 BLKS E ON INDIANA AVE N 2 1/2 BLKS ON EDGEWATER BLVD ACROSS FROM MCNAUGHTON PARK ON W SIDE OF RIVER	Oct 08, 1978

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	GRANT HOLMES	1315 EDGEWATER BLVD ELKHART	
Driller	B J MOORE & SON	1606 W INDIANA AVE ELKHART	
Operator	WAYNE L MOORE	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 42.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 37.0	*Material:*	*Diameter:* 2.0"
Screen	*Length:* 5.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* 15.0 gpm for 2.0 hrs.
Drawdown: ft. *Static water level:* 9.0 ft. *Bailer Drawdown* 0.0 ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SEof the NW of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	6.0	CRS BRN S&G
6.0	12.0	CRS BRN GRAV & STONES
12.0	23.0	VRY HARDPAN SANDY BRN CLAY
23.0	36.0	MED FINE BRN SAND
36.0	42.0	MED CRS BRN SAND & GRAV

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60980	ST JOE ELKHART CR S TO IND 33 E TO IND 19 R L AT 1ST LIGHT FOLLOW TO LAKLAND AVE L ON L SIDE 3 BLKS DOWN	Sep 07, 1979

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ELKHART RUBBER WORKS	1629 OAKLAND AVE ELKHART	
Driller	B J LEWIS & SONS	21828 M 60 E CASSOPOLIS MI	
Operator	DAVE MACDONALD	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 125.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 95.0	*Material:*	*Diameter:* 12.75
Screen	*Length:* 30.0	*Material:*	*Diameter:* 11.53 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 700.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 15.0 ft. *Static water level:* 15.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SE of the NEof the SE of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: 754.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 629.0
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	SURFACE
1.0	20.0	RED SAND
20.0	47.0	S&G
47.0	51.0	BLUE CLAY
51.0	61.0	CRS GRAV
61.0	85.0	CRS S&G
85.0	86.0	BLUE CLAY S&G
86.0	89.0	S&G
89.0	90.0	BLUE CLAY & SAND
90.0	122.0	SAND
122.0	125.0	CRS GRAV

Comments PLANT CLOSED WELL ON LOCATED

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60985	1 BLK N OF W INDIANA AVE	Aug 18, 1981

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	WINIFRED BROWN	1411 NAVAJA ST ELKHART	
Driller	B J MOORE & SONS	1606 W INDIANA AVE ELKHART	
Operator	WAYNE L MOORE	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 40.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 36.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 15.0 gpm for 2.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 0.0 ft. *Static water level:* 12.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	30.0	CRS BRN SAND
30.0	35.0	FINE BRN SAND & BRN CLAY BLLS
35.0	40.0	MED CRS BRN SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60990	INTERSECTION OF NAPPANEE ST AND INDIANA AVE SE CRNR	Sep 19, 1975

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ST JOSEPH VALLEY BANK	1500 NAPPANEE ST ELKHART	
Driller	B J MOORE & SON	1606 W INDIANA AVE ELKHART	
Operator	WAYNE L MOORE	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Cable Tool	*Pump type:*
	Depth: 58.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 48.0	*Material:*	*Diameter:* 4.0
Screen	*Length:* 10.0	*Material:*	*Diameter:* 3.75 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 50.0 gpm for 2.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 0.0 ft. *Static water level:* 15.5 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NW of the NWof the SW of Section 7 *Topo map:* Osceola
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: LSV *on:* May 18, 1976
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: 460.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	25.0	CRS BRN S&G
25.0	45.0	SANDY BRN CLAY
45.0	58.0	MED CRS BRN SAND

Comments BASE MAP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60995	CRNR OF W LUSHER AND NAPPANEE NEXT TO RR TRACKS	Dec 08, 1965

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	PATRICK PLYWOOD	W LUSHER AVE ELKHART	
Driller	RIETH & AUSTIN	2676 S MAIN ELKHART	
Operator	JACK MACAULEY	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Cable Tool	*Pump type:*
	Depth: 45.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 41.0	*Material:*	*Diameter:* 2.0
Screen	*Length:*	*Material:*	*Diameter:* 1.25 *Slot size:* 60

Well Capacity Test

Type of test: *Test rate:* 11.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 0.0 ft. *Static water level:* 18.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SW of the SWof the SW of Section 7 *Topo map:* Osceola
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: 759.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	10.0	SAND
10.0	13.0	FINE S&G
13.0	18.0	CLAY
18.0	21.0	CLAY & SAND
21.0	24.0	CRS SAND
24.0	45.0	S&G

Comments BASE MAP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
119656	.5 BLOCK E OF CR 13 ON N SIDE OF LINDON DR (LINDON IS 1 BLK N OF US-33 OFF CR 13)	Aug 03, 1985

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	CLAYTON NEWMAN	23613 LINDON DR ELKHART 46516	
Driller	GEO P REID & SON	PO BOX 10 N HOWE IN 46746	
Operator	BILL REID, TODD GOTHSALL	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:* DEEP-WELL JET
	Depth:	*Pump setting depth:* 29.5	*Water quality:* CLEAR
Casing	*Length:* 86.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 3.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: PUMPING *Test rate:* 15.0 gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 26.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NW of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	50.0	S & G
50.0	54.0	CLAY
54.0	92.0	FINE SAND & MED SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
132578	1/2 MILE EAST OF SR19 ON US33, THEN N ON 13TH STREET, 200' ON EAST SIDE.	Nov 07, 1994

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	CONRAD HOCHSTETLER	2028 13TH STREET, ELKHART, IN	
Driller	GRABER'S WELL DRILLING, INC.	7875 W. 075N, SHIPSHEWANA, IN	(219) 768-4668
Operator	DARRYL GRABER	License: 247	

Construction Details

Well	*Use:* HOME	*Drilling method:* Rotary	*Pump type:* SUBMERSIBLE
	Depth: 50.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 40.0	*Material:* PVC	*Diameter:* 4.0
Screen	*Length:* 10.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* .012

Well Capacity Test

Type of test: AIR *Test rate:* 65.0 gpm for 0.5 hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 16.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: BENTONITE *Depth:* from 0.0 to 35.0
Installation Method: PRESSURE *Number of bags used:* 1.0

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SE of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	18.0	BROWN SAND
18.0	30.0	GRAY CLAY
30.0	54.0	COARSE SAND AND GRAVEL

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
159032	S R 19 N OF C R 20 BEFORE YOU GET TO THE RR OVERPASS AT THE STOPLIGHT TURN R ON LUSKER AVE ABOUT 1/2 BLK ON N SIDE OF STREET	Sep 28, 1994

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	GASKA TAPE	1910 W LUSKER AVE ELKHART IN	(219) 294-5431
Driller	WELTY & SONS	19577 C R 46 NEW PARIS IN	(219) 831-2538
Operator	BRENT WELTY	License: 306	
Company	NEW WAY CONSTRUCTION	17470 C R 34 GOSHEN IN	(219) 533-0588

Construction Details

Well	*Use:* TEST	*Drilling method:*	*Pump type:*
	Depth:	*Pump setting depth:*	*Water quality:*
Casing	*Length:*	*Material:*	*Diameter:*
Screen	*Length:*	*Material:*	*Diameter: Slot size:*

Well Capacity Test	*Type of test:*	*Test rate:* gpm for hrs.	*BailTest rate:* gpm for hrs.
	Drawdown: ft.	*Static water level:* ft.	*Bailer Drawdown* ft.

Grouting Information	*Material:*	*Depth:* from to
	Installation Method:	*Number of bags used:*

Well Abandonment	*Sealing material:*	*Depth:* from to
	Installation Method:	*Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SW of Section 7 *Topo map:* Elkhart

Grant Number:

Field located by: *on:*

Courthouse location by: *on:*

Location accepted w/o verification by: *on:*

Subdivision name: *Lot number:*

Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*

Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*

UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	BLACK SOIL
1.0	4.0	CINDER
4.0	15.0	SAND
15.0	17.0	GRAV
17.0	20.0	GRAY CLAY
20.0	23.0	GRAV W/ LITTLE CLAY
23.0	29.0	FINE SAND
29.0	40.0	GRAV
40.0	53.0	GRAV
53.0	56.0	GRAY CLAY
56.0	66.0	COARSE GRAV & SAND
66.0	69.0	SAND & COARSE GRAV
69.0	75.0	GRAY CLAY
75.0	81.0	SAND W/COARSE GRAV
81.0	153.0	GRAV

046

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
159041	SR 19 N OF CR 20 BEFORE YOU GET TO THE RR OVERPASS AT THE STOP LIGHT TURN R ON LUSHER ABOUT 1/2 BLK ON N SIDE OF STREET	Oct 07, 1994

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	GASKA-TAPE	1810 W LUSHER ELKHART IN	(219) 294-5431
Driller	WELTY & SONS	P O BOX 136 NEW PARIS IN	(219) 831-2538
Operator	BRENT WELTY	License: 306	
Company	NU-WAY CONSTRUCTION	17470 CR 34 GOSHEN IN	(219) 533-0588

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Rotary	*Pump type:* SUBMERSIBLE
	Depth: 150.0	*Pump setting depth:* 63.0	*Water quality:* CLEAR
Casing	*Length:* 125.0	*Material:* PVC	*Diameter:* 6.0
Screen	*Length:* 25.0	*Material:* PVC	*Diameter:* 6.0 *Slot size:* .020

Well Capacity Test	*Type of test:* AIR	*Test rate:* 375.0 gpm for hrs.	*BailTest rate:* gpm for hrs.
	Drawdown: 12.0 ft.	*Static water level:* 13.0 ft.	*Bailer Drawdown* ft.

Grouting Information	*Material:* WY-BEN	*Depth:* from 25.0 to
	Installation Method: PRESS	*Number of bags used:* 3.0

Well Abandonment	*Sealing material:*	*Depth:* from to
	Installation Method:	*Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E

Section: SW of Section 7 *Topo map:* Elkhart

Grant Number:

Field located by: *on:*

Courthouse location by: *on:*

Location accepted w/o verification by: *on:*

Subdivision name: *Lot number:*

Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*

Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*

UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	4.0	CINDERS
4.0	13.0	FINE SAND
13.0	26.0	S & G
26.0	37.0	FINE GRAV
37.0	51.0	S & G
51.0	76.0	FINE SAND
76.0	77.0	GRAY CLAY
77.0	82.0	CLAY W/ SAND MIX
82.0	150.0	COARSE GRAV

Comments SEE MAP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
244262	CO LINE RD S TO 33 TURN E 2.5 MI ON N SIDE OF RD	Jun 22, 1978

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	SWINGER MOTOR HOMES	US 33 W, ELKHART IND	
Driller	B J LEWIS AND SONS	M 60 E CASSOPOLIS MICH	
Operator	TERRY DAVIS	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Jet	*Pump type:*
	Depth: 57.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 53.0	*Material:*	*Diameter:* 2.375
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 60

Mike Skibbe

Well Capacity Test *Type of test:* PLUNGING *Test rate:* 15.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 5.0 ft. *Bailer Drawdown* ft.

Grouting Information *Material:* *Depth:* from to
Installation Method: *Number of bags used:*

574
828
8778

Well Abandonment *Sealing material:* *Depth:* from to
Installation Method: *Number of bags used:*

Administrative *County:* Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	SURFACE
1.0	3.0	BLUE CLAY AND SAND
3.0	4.0	SAND
4.0	16.0	BLUE CLAY AND SAND
16.0	30.0	FN SAND
30.0	35.0	BLUE CLAY AND SAND
35.0	45.0	FN SAND
45.0	50.0	BLUE CLAY AND FN SAND
50.0	52.0	FN SAND
52.0	57.0	SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
246365	SR 19 TO ELKHART GO ACROSS US 33 ACROSS RIVER TURN ON 1ST ST RAINBOW GO 2 BLOCKS ON CORNER OF RAINBOW & DOSJEY ST	Sep 27, 1995

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	BILL INMAN	1040 RAINBOW BEND BLUFF ELKHART IN	(219) 295-1233
Driller	WELTY & SONS INC	PO BOX136 NEW PARIS IN	(219) 831-2538
Operator	BIERT WELTY	License: 306	

Construction Details

Well	***Use:*** INDUSTRIAL	***Drilling method:*** Rotary	***Pump type:*** SUBMERSIBLE
	Depth: 70.0	***Pump setting depth:*** 40.0	***Water quality:*** CLEAR
Casing	***Length:*** 64.0	***Material:*** PVC	***Diameter:*** 4.0
Screen	***Length:*** 6.0	***Material:*** PVC	***Diameter:*** 4.0 ***Slot size:*** .015

Well Capacity Test

Type of test: AIR ***Test rate:*** 40.0 gpm for 0.5 hrs. ***BailTest rate:*** gpm for hrs.
Drawdown: ft. ***Static water level:*** 24.0 ft. ***Bailer Drawdown*** ft.

Grouting Information

Material: QUIK GROUT ***Depth:*** from 60.0 to 0.0
Installation Method: TREMMIE ***Number of bags used:*** 3.0

Well Abandonment

Sealing material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Administrative

County: Elkhart ***Township:*** 37N ***Range:*** 5E
Section: NW of Section 7 ***Topo map:*** Elkhart
Grant Number:
Field located by: ***on:***
Courthouse location by: ***on:***
Location accepted w/o verification by: ***on:***
Subdivision name: ***Lot number:***
Ft W of EL: ***Ft N of SL:*** ***Ft E of WL:*** ***Ft S of NL:***
Ground elevation: ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:***
UTM Easting: ***UTM Northing:***

Well Log

Top	Bottom	Formation
0.0	26.0	S&G
26.0	59.0	GRAY CLAY
59.0	70.0	GRAV
70.0	0.0	CLAY

Comments SEE MAP:

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
266519	NAPPANEE ST S TO FRANKLIN ST (US HWY 33) GO E ABOUT .25 MI, BLDG (ABOUT 3RD) ON R H (S) SIDE	Oct 18, 1995

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	D & M GLASS	2001 W FRANKLIN ST, ELKHART	(219) 294-6481
Driller	BOH'S WELL DRILLING, INC.	1111 DI DR, ELKHART,	(219) 266-6021
Operator	BILL MAESCH	License: 201	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Rotary	*Pump type:* SUBMERSIBLE
	Depth: 43.0	*Pump setting depth:* 30.0	*Water quality:* CLEAR
Casing	*Length:* 38.0	*Material:* PVC	*Diameter:* 4.0
Screen	*Length:* 5.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* .012

Well Capacity Test	*Type of test:* AIR	*Test rate:* 30.0 gpm for 1.0 hrs.	*BailTest rate:* gpm for hrs.
	Drawdown: 3.0 ft.	*Static water level:* 14.0 ft.	*Bailer Drawdown* ft.

Grouting Information	*Material:* QUICK GROUT	*Depth:* from 4.0 to 30.0
	Installation Method: TREMIE	*Number of bags used:* 1.5

Well Abandonment	*Sealing material:* BNSL	*Depth:* from 4 to 46
	Installation Method: POUR	*Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SW of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	TOP SOIL
1.0	7.0	BR CLAY W/ SAND
7.0	13.0	SAND W/ SM GRAV
13.0	19.0	MED BR SAND W/ SM GRAV
19.0	46.0	MED BR SAND W/ SM MED GRAV
46.0	51.0	REDDISH BR CLAY

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
277023	E OF PLANT E OF NAPPANEE ST WELL 2 BANDONED AND SEALED	Jul 12, 1996

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ELKHART WASTEWATER TRTMT PLT	1201 S NAPPANEE ST ELKHART IN	
Driller	PEERLESS MIDWEST INC	51255 BITTERSWEET RD PO BX 26 GRANGER IN	(219) 272-9050
Operator	JOHN BLATZ	License: 214	

Construction Details

Well	*Use:*	*Drilling method:*	*Pump type:*
	Depth:	*Pump setting depth:*	*Water quality:*
Casing	*Length:*	*Material:*	*Diameter:*
Screen	*Length:*	*Material:*	*Diameter: Slot size:*

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: NEAT CEMENT *Depth:* from 0 to 53
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SE of the NWof the NW of Section 7 *Topo map:* Osceola
Grant Number:
Field located by: ECHD-WATSPM *on:* Jun 01, 2001
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: 726.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 673.0
UTM Easting: 583156.0 *UTM Northing:* 4614327.0

Well Log

Top	Bottom	Formation
0.0	0.0	NO INFORMATION

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
301693	3' N OF NADEL AVE & 200' W OF HESTER ST	Aug 01, 1997

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ELKHART PUBLIC WORKS	1201 S NAPPANEE ST., ELKHART, IN	
Driller	PEERLESS-MIDWEST INC.	55860 RUSSELL IND. PKWY., MISHAWAKA, IN	(219) 254-9050
Operator	RUSSELL JONES	License: 218	

Construction Details

Well	*Use:* OTHER	*Drilling method:* Cable Tool	*Pump type:*
	Depth: 13.5	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 8.5	*Material:* STEEL	*Diameter:* 20.0
Screen	*Length:* 5.0	*Material:* SSWW	*Diameter:* 20.0 *Slot size:* 0.060

Well Capacity Test

Type of test: PUMPING *Test rate:* 35.8 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 1.7 ft. *Static water level:* 3.6 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NE of the NWof the NE of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: ECHD-WATSON *on:* Jul 10, 2000
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 1320.0 *Ft N of SL:* *Ft E of WL:* *Ft S of NL:* 460.0
Ground elevation: 725.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 711.0
UTM Easting: 584083.0 *UTM Northing:* 4614515.0

Well Log

Top	Bottom	Formation
0.0	2.0	TOPSOIL
2.0	13.5	FN MED & CRS S&G

Comments WELL 3' SOUTH OF NADEL; VERIFIED BY DRIVER; ON FC, NOT ON MC

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
325682	SR19 GO S TO INDIANA AVE GO E TO EDGEWATER BLVD (BEFORE LIGHT AT FRANKLIN) GO N (LT) ABOUT 1 BLK ON S (LT) SD	Apr 28, 1999

Owner-Contractor	*Name*	*Address*	*Telephone*
Driller	BOHS WELL DRLNG INC.	1111 DI DRIVE, ELKHART, IN	(219) 266-6021
Operator	DAVE MAESCH	License: 1419	() -
Owner	MICHAEL LERCH	1337 EDGEWATER BLVD., ELKHART, IN	(219) 294-6046

Construction Details

Well	*Use:* IRRIGATION	*Drilling method:* Rotary	*Pump type:*
	Depth: 50.0	*Pump setting depth:* 20.0	*Water quality:* CLEAR
Casing	*Length:* 45.0	*Material:* PVC	*Diameter:* 4.0
Screen	*Length:* 5.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* .016

Well Capacity Test

Type of test: AIR *Test rate:* 30.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 3.0 ft. *Static water level:* 17.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: BNSL *Depth:* from 0.0 to 35.0
Installation Method: TREMIE *Number of bags used:* 3.0

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NW1/4 of the SE¼of the NW¼ of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* 1720.0 *Ft S of NL:* 1680.0
Ground elevation: 725.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 675.0
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	TOPSOIL
1.0	10.0	FN BRN SAND
10.0	20.0	BRN CLAY W/MED GRAV
20.0	31.0	GREY CLAY
31.0	40.0	FN BRN SAND
40.0	50.0	MED CRS BRN SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
345085	CR 7, GO S TO BRISTOL ST, GO W TO SR 19, GO S TO INDIANA AVE - CR 16 - GO E 2-3 BLOCKS NE CORNER OF OKEMA & E INDIANA AVE	Oct 19, 2000

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	JACK HURLEY	2016 W INDIANA AVE ELKHART IN	(219) 295-5311
Driller	BOHS WELL DRILLING INC	1111 DI DR ELKHART IN	(219) 266-6021
Operator	RYAN MOLNAR	License: 1500	

Construction Details

Well	*Use:* IRRIGATION	*Drilling method:* Rotary	*Pump type:* SUBMERSIBLE
	Depth: 57.0	*Pump setting depth:* 41.0	*Water quality:* CLEAR
Casing	*Length:* 50.0	*Material:* PVC	*Diameter:* 4.0
Screen	*Length:* 7.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* .012

Well Capacity Test

Type of test: AIR *Test rate:* 30.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 3.0 ft. *Static water level:* 13.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: BENSEAL *Depth:* from 0.0 to 45.0
Installation Method: TREMIE *Number of bags used:* 2.5

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NE of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	TOPSOIL
1.0	6.0	MED BR SAND
6.0	34.0	CRS BR S&G
34.0	37.0	TAN CLAY
37.0	57.0	FINE BR SAND
57.0	58.0	GRAY CLAY

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
347211	W OF OAKLAND AVE 1 BLK ON LUSHES THENN 1 BLK TO CONCORD .5 BLK S SD	Aug 17, 2000

Owner-Contractor	*Name*	*Address*	*Telephone*
Driller	MARTIN~S WELL DRILLING	27046 CR30 W ELKHART, IN	(219) 862-2318
Operator	ORRIN MARTIN	License: 64	() -
Owner	TODD SUOMELA	1309 CONCORD AVE., ELKHART,IN	(219) 522-4422

Construction Details

Well	*Use:* HOME	*Drilling method:* Rotary	*Pump type:* SUBMERSIBLE
	Depth: 48.0	*Pump setting depth:* 30.0	*Water quality:* CLEAR
Casing	*Length:* 43.0	*Material:* PVC	*Diameter:* 4.0
Screen	*Length:* 5.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* .012

Well Capacity Test

Type of test: AIR *Test rate:* 50.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 13.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: QUICK GROUT *Depth:* from 0.0 to 35.0
Installation Method: PR *Number of bags used:* 2.0

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SE1/4 of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	15.0	SAND
15.0	17.0	CLAY
17.0	50.0	S&G

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
351423	2 MI SW OF OAKLAND AVE ON LUSHER THEN N 1 BLK ON W SD AT #1913	May 11, 2001

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ELKHART PLATING	1913 S. 14TH ELKHART, IN	(219) 294-1800
Driller	MARTIN'S WELL DRILLING	27046 CR30 W ELKHART, IN	(219) 862-2318
Operator	ORRIN MARTIN	License: 64	

Construction Details

Well	*Use:* OTHER	*Drilling method:* Rotary	*Pump type:*
	Depth: 51.0	*Pump setting depth:*	*Water quality:* CLEAR
Casing	*Length:* 31.0	*Material:* PVC	*Diameter:* 4.0
Screen	*Length:* 20.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* .025

Well Capacity Test

Type of test: AIR *Test rate:* 100.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 15.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: QUICK GROUT *Depth:* from 0.0 to 20.0
Installation Method: PR *Number of bags used:* 1.0

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	51.0	S&G
51.0	57.0	FN SAND
57.0	63.0	GRAY CLAY

Comments:

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
352750	TAKE CR7 S TO BRISTOL ST (SR20) GO E TO NAPPANEE ST (SR19) S TO FRANKLIN ST (US33) GO E ABOUT .25 MI, BLDG (ABOUT 3RD) ON S (RT) SD	May 17, 2001

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	D & M GLASS	2001 W. FRANKLIN ST., ELKHART, IN	(219) 294-6481
Driller	BOHS WELL DRILLING INC.	1111 D.I. DRIVE, ELKHART, IN	(219) 266-6021
Operator	GLEN DILLEY	License: 1806	

Construction Details

Well	*Use:* IRRIGATION	*Drilling method:* Rotary	*Pump type:* SUBMERSIBLE
	Depth: 63.0	*Pump setting depth:* 44.0	*Water quality:* CLEAR
Casing	*Length:* 58.0	*Material:* PVC	*Diameter:* 4.0
Screen	*Length:* 5.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* .016

Well Capacity Test

Type of test: AIR *Test rate:* 30.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 2.0 ft. *Static water level:* 14.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: BNSL *Depth:* from 55.0 to 0.0
Installation Method: TREMIE *Number of bags used:* 4.0

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SW of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	TOPSOIL
1.0	42.0	CRS BRN S&G
42.0	44.0	TAN CLAY W/GRAV
44.0	46.0	TAN CLAY
46.0	64.0	MED BRN SAND
64.0	67.0	GRAY CLAY W/BRN SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
378988	N OF LUSHER AVE, COUPLE BLOCKS ON W SIDE	Oct 08, 2003

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ELKHART PLATING	1913 14TH ST S ELKHART, IND	(574) 294-1800
Driller	MARTIN'S WELL DRILLING	27046 CR 30W ELKHART, IND	(574) 862-2318
Operator	ORIN MARTIN	License: 64	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Rotary	*Pump type:* SUBMERSIBLE
	Depth: 108.0	*Pump setting depth:* 42.0	*Water quality:* CLEAR
Casing	*Length:* 88.0	*Material:* PVC	*Diameter:* 6.0
Screen	*Length:* 20.0	*Material:* PVC	*Diameter:* 6.0 *Slot size:* .020

Well Capacity Test

Type of test: AIR *Test rate:* 600.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 15.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: QUICK GROUT *Depth:* from 0.0 to 80.0
Installation Method: PUMP *Number of bags used:* 6.0

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SE of Section 7 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	25.0	SAND & GRAVEL
25.0	28.0	CLAY
28.0	62.0	GRAVEL
62.0	65.0	CLAY
65.0	83.0	SAND
83.0	112.0	RICE GRAVEL
112.0	135.0	SAND

Comments

Section 16

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
5817	ON FIELD HOUSE DR OFF OF LUSHER AVE BETWEEN OAKLAND AVE AND NAPPANEE ST HOUSE 1333	Apr 09, 1992

Owner-Contractor Name		*Address*	*Telephone*
Owner	JOYCE NEWSONE	1333 FIELD HOUSE DR ELKHART IN	(219) 294-2869
Driller	C AND L WELL DRILLING	11431 CR 10 MIDDLEBURY IN	(219) 825-9262
Operator	FLOYD MARTIN	License: 796	

Construction Details

Well	*Use:*	*Drilling method:* Rotary	*Pump type:* SUBMERSIBLE
	Depth: 52.0	*Pump setting depth:*	*Water quality:* CLEAR
Casing	*Length:* 46.0	*Material:* PVC	*Diameter:* 4.0
Screen	*Length:* 6.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* 12

Well Capacity Test

Type of test: AIR *Test rate:* 45.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 22.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: BENSEAL *Depth:* from 32.0 to 7.0
Installation Method: PRESSR *Number of bags used:* 1.0

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NE of the NEof the NE of Section 18 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	25.0	SAND
25.0	30.0	SAND AND GRAVEL
30.0	40.0	CLAY
40.0	46.0	SAND AND GRAVEL
46.0	52.0	GRAVEL AND VEIN

Comments

060 1

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
47489	TAKE ST RD 19 S PAST US 33 & OVERPASS ABOUT 3 BLKS TO BORNEMAN, GO LFT ABOUT 3-4 BLKS, HOUSE ON S SIDE (ACROSS FROM VALLEY MACHINE)	Aug 18, 1993

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	JAMES DAFFINEE	1839 BORNEMAN ST. ELKHART, IN	
Driller	BOHS WELL DRILLING, INC.	1434 KILBOURN ST. ELKHART, IN	(219) 294-6083
Operator	BILL MAESCH	License: 201	
Company	HENRY SMITH PLUMBING/HEATING	60503 CR 3, ELKHART, IN	(219) 294-3617

Construction Details

Well	*Use:* HOME	*Drilling method:* Rotary	*Pump type:* SHALLOW-WELL JET
	Depth: 40.0	*Pump setting depth:*	*Water quality:* CLEAR
Casing	*Length:* 35.0	*Material:* PVC	*Diameter:* 2.0
Screen	*Length:* 5.0	*Material:* PVC	*Diameter:* 4.0 *Slot size:* 12

Well Capacity Test

Type of test: AIR *Test rate:* 25 0 gpm for 1 0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 3 0 ft. *Static water level:* 15 0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: VOLCLAY *Depth:* from 5.0 to 30.0
Installation Method: TREMIE *Number of bags used:* 1.5

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SEof the NW of Section 18 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	1.0	TOP SOIL

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60279	1800 BLK HIVELY AVENUE, ELKHART, INDIANA	Oct 26, 1963

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	FROLIC MOBILE HOME		
Driller	ATLEE FRAIN	PO BOX 455, TOPEKA, INDIANA	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:*	*Pump type:*
	Depth: 50.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 46.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 3.5	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 21.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NW of the NEof the SW of Section 18 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 3650.0 *Ft N of SL:* 2400.0 *Ft E of WL:* *Ft S of NL:*
Ground elevation: 760.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 735.0
UTM Easting: 583426.0 *UTM Northing:* 4612191.0

Well Log

Top	Bottom	Formation
0.0	18.0	YELLOW SAND
18.0	26.0	SAND & GRAVEL
26.0	29.0	BLUE CLAY AND GRAVEL
29.0	50.0	GRAVEL

Comments BASE MAP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60280	ON CR 7 20 ROD NORTH OF 18 ON WEST SIDE	Jun 26, 1963

Owner-Contractor Name		*Address*	*Telephone*
Owner	HOWARD MOYER		
Driller	LAWRENCE K. MARTIN WELL DRILLI RR 5 BOX 250, GOSHEN, IND		

Construction Details

Well	*Use:*	*Drilling method:* Jet	*Pump type:*
	Depth: 50.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 46.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.0 *Slot size:* 60

Well Capacity Test

Type of test: *Test rate:* gpm for hrs *BailTest rate:* gpm for hrs.
Drawdown: ft *Static water level:* 12.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SE of the SEof the NE of Section 18 *Topo map:* Elkhart
Grant Number:
Field located by: PW *on:* Aug 01, 1972
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 100.0 *Ft N of SL:* *Ft E of WL:* *Ft S of NL:* 2500.0
Ground elevation: 760.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 710.0
UTM Easting: 584506.0 *UTM Northing:* 4612305.0

Well Log

Top	Bottom	Formation
1.0	46.0	SAND AND CLAY
46.0	50.0	GRAVEL

Comments VERIFIED BY NEIGHBOR BASE MAP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60284	ABOUT 1/2 BLK S OF HIVELY AVE ON 17TH STREET ON EAST SIDE OF ROAD	Jan 01, 1976

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	CENTRAL STATES MACHINE SERVICE	2720 17TH STREET, ELKHART, IND	
Driller	B. J. MOORE & SON	1606 W INDIANA AVE, ELKHART, IND	
Operator	WAYNE L. MOORE	License: null	

Construction Details

Well	***Use:*** INDUSTRIAL	***Drilling method:*** Cable Tool	***Pump type:***
	Depth: 101.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:*** 91.0	***Material:***	***Diameter:*** 4.0
Screen	***Length:*** 10.0	***Material:***	***Diameter:*** 3.75 ***Slot size:*** 10

Well Capacity Test

Type of test: ***Test rate:*** 50.0 gpm for 4.0 hrs. ***BailTest rate:*** gpm for hrs.
Drawdown: 0.0 ft. ***Static water level:*** 17.0 ft. ***Bailer Drawdown*** ft.

Grouting Information

Material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Well Abandonment

Sealing material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Administrative

County: Elkhart ***Township:*** 37N ***Range:*** 5E
Section: NW of the NWof the SE of Section 18 ***Topo map:*** Elkhart
Grant Number:
Field located by: MFC ***on:*** Jun 18, 1985
Courthouse location by: ***on:***
Location accepted w/o verification by: BRUNS ***on:*** Jan 06, 1977
Subdivision name: ***Lot number:***
Ft W of EL: 2500.0 ***Ft N of SL:*** 2500.0 ***Ft E of WL:*** ***Ft S of NL:***
Ground elevation: 761.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:*** 659.0
UTM Easting: 583745.0 ***UTM Northing:*** 4612225.0

Well Log

Top	Bottom	Formation
0.0	18.0	CRS BROWN SAND
18.0	26.0	CRS BR GRAVEL
26.0	30.0	CRS S&G & BLUE CLAY HARDPAN
30.0	42.0	HARD SANDY BLUE CLAY, S&G
42.0	53.0	GRAVEL AND STONES
53.0	59.0	CRS AND FINE BROWN GRAVEL
59.0	66.0	CEMENTED CRS LIGHT BR SAND GRV
66.0	69.0	CRS LIGHT BR S&G W/BR SILT
69.0	84.0	CEMENTED BLUE CLAY, S&G HARDPA
84.0	88.0	CRS LIGHT BR SAND CRS GRAVEL
88.0	89.0	VERY CRS LIGHT BR SAND & FINE
89.0	102.0	CRS DARK GRAY SAND AND TRACE G

Comments WELL NO 2 MC 659

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60285	.25 BLOCK E OF 17TH ST AND ONE BLOCK S OF LIUEINGER AVE ELKHART, IN	Nov 30, 1959

Owner-Contractor Name		*Address*	*Telephone*
Owner	EUGENE DIETZGEN CO INC	2500 S 17TH ST	
Driller	B J MOORE & SON	1606 W INDIANA AVE ELKHART, IN	
Operator	WAYNE L MOORE	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Cable Tool	*Pump type:*
	Depth: 89.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 68.0	*Material:*	*Diameter:* 8.0
Screen	*Length:* 20.0	*Material:*	*Diameter:* 6.75 *Slot size:* 30

Well Capacity Test	*Type of test:*	*Test rate:* 75.0 gpm for 8.0 hrs.	*Bail Test rate:* gpm for hrs.
	Drawdown: 1.0 ft.	*Static water level:* 14.0 ft.	*Bailer Drawdown* ft.

Grouting Information	*Material:*	*Depth:* from to
	Installation Method:	*Number of bags used:*

Well Abandonment	*Sealing material:*	*Depth:* from to
	Installation Method:	*Number of bags used:*

Administrative

County: Elkhart — *Township:* 37N *Range:* 5E

Section: NW of the SW of the NE of Section 18 — *Topo map:* Elkhart

Grant Number:

Field located by: PW — *on:* Aug 01, 1972

Courthouse location by: — *on:*

Location accepted w/o verification by: — *on:*

Subdivision name: — *Lot number:*

Ft W of EL: 2450.0 — *Ft N of SL:* — *Ft E of WL:* — *Ft S of NL:* 1950.0

Ground elevation: 755.0 — *Depth to bedrock:* — *Bedrock elevation:* — *Aquifer elevation:* 666.0

UTM Easting: 583801.0 — *UTM Northing:* 4612493.0

Well Log

Top	Bottom	Formation
0.0	10.0	BR S&G
10.0	26.0	GRAY SNAD SOME GRAV
26.0	31.0	BLUE CLAY & CRS GRAV MX MD SN
31.0	52.0	COURSE GRAY SAND
42.0	47.0	COURSE GRAY S&G
47.0	58.0	CRS GRAY S&G MX BR CLAY BL&S
58.0	68.0	CONSOLIDATED S&G CLAY HARDP
68.0	89.0	CRS LT BR GRAV & STONES W/SIL

Comments MC665; BASE MAP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60289	SE CORNER HIVELY AND 17	Jul 03, 1970

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	CENTRAL STATES MACHINE		
Driller	SRIVER DRILLING CO., INC.	2320 W INDIANA AVE, SOUTH BEND, INDIANA	(000) 288-5362
Operator	RON CORRELL	License: null	

Construction Details

Well	***Use:*** INDUSTRIAL	***Drilling method:*** Jet	***Pump type:***
	Depth: 60.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:*** 56.0	***Material:***	***Diameter:*** 3.0
Screen	***Length:*** 4.0	***Material:***	***Diameter:*** 2.0 ***Slot size:*** 10

Well Capacity Test

Type of test: ***Test rate:*** 30.0 gpm for 1.0 hrs. ***BailTest rate:*** gpm for hrs.
Drawdown: ft. ***Static water level:*** 17.0 ft. ***Bailer Drawdown*** ft.

Grouting Information

Material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Well Abandonment

Sealing material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Administrative

County: Elkhart ***Township:*** 37N ***Range:*** 5E
Section: NW of the NWof the SE of Section 18 ***Topo map:*** Elkhart
Grant Number:
Field located by: MFC ***on:*** Jun 18, 1985
Courthouse location by: ***on:***
Location accepted w/o verification by: ***on:***
Subdivision name: ***Lot number:***
Ft W of EL: 2575.0 ***Ft N of SL:*** 2450.0 ***Ft E of WL:*** ***Ft S of NL:***
Ground elevation: 761.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:*** 701.0
UTM Easting: 583748.0 ***UTM Northing:*** 4612205.0

Well Log

Top	Bottom	Formation
0.0	25.0	S&G
25.0	50.0	SAND & GRAY CLAY
50.0	60.0	BROWN SAND

Comments OWNER VERIFIED WELL #1

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60290	.25 BLOCK E OF 17TH ST AND 1 BLOCK S OF LIENINGER AVE	Apr 10, 1960

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	EUGENE DIETZGEN CO	2500 S 17TH ST ELKHART, IN	
Driller	B J MOORE & SON	1606 W INDIANA AVE ELKHART, IN	
Operator	B J MOORE	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Cable Tool	*Pump type:*
	Depth: 89.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 70.0	*Material:* STEEL	*Diameter:* 12.0
Screen	*Length:* 20.0	*Material:* BRASS	*Diameter:* 10.5 *Slot size:* 100

Well Capacity Test

Type of test: PUMPING *Test rate:* 400.0 gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: 15.0 ft. *Static water level:* 12.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NW of the SWof the NE of Section 18 *Topo map:* Elkhart
Grant Number:
Field located by: PW *on:* Aug 01, 1972
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: 2450.0 *Ft N of SL:* *Ft E of WL:* *Ft S of NL:* 1950.0
Ground elevation: 755.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:* 666.0
UTM Easting: 583803.0 *UTM Northing:* 4612491.0

Well Log

Top	Bottom	Formation
0.0	10.0	BROWN S&G
10.0	26.0	GRAY SAND SOME GRAV
26.0	31.0	BLUE CLAY & COURSE GRAV
31.0	42.0	MIXTURE MD FINE & CRS GRY SND
42.0	47.0	COURSE GRAY S&G
47.0	58.0	CRS GRY S&G MIXED W/BR CLY BL
58.0	68.0	HARDPAN
68.0	89.0	COURSE LIGHT BR SAND & GRAV

Comments MC665; DISPOSAL WELL #2 VERIFIED BY PLANT ENGINEER

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60294	1407 SOUTH 14TH ST	Aug 04, 1965

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	CARL BUMGARTNER	1407 S. 14TH ST, GOSHEN	
Driller	GLEN HAPNER	907 GALLINGER RD, GOSHEN, INDIANA	
Operator	GLEN HAPNER	License: null	

Construction Details

Well	*Use:*	*Drilling method:* Reverse Rotary	*Pump type:*
	Depth: 31.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:*	*Material:*	*Diameter:* 2.0
Screen	*Length:*	*Material:*	*Diameter:* 2.0 *Slot size:* 60

Well Capacity Test	*Type of test:*	*Test rate:* gpm for hrs.	*BailTest rate:* gpm for hrs.
	Drawdown: ft.	*Static water level:* 21.0 ft.	*Bailer Drawdown* ft.

Grouting Information	*Material:*	*Depth:* from to
	Installation Method:	*Number of bags used:*

Well Abandonment	*Sealing material:*	*Depth:* from to
	Installation Method:	*Number of bags used:*

Administrative

County: Elkhart — Error — *Township:* 37N *Range:* 5E

Section: NE of Section 18 *Topo map:* Elkhart

Grant Number:

Field located by: *on:*

Courthouse location by: *on:*

Location accepted w/o verification by: *on:*

Subdivision name: *Lot number:*

Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*

Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*

UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	10.0	S&G
10.0	20.0	GRAVEL & HARD PAN
20.0	31.0	GRAVEL

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60309	ON SW CORNER OF MARKLE AVE, 5 MILE NORTH OF CR 20 ON ROY AVE WEST SIDE 18TH ST 3 BLKS E OF SR 19 ON MARKLE OR 2 BLKS S OF W LUSHER ON 18TH	May 09, 1986

Owner-Contractor	*Name*	*Address*	*Telephone*
Driller	MARTINS WELL DRILLING	27048 CR 30W, ELKHART, IND	
Operator	ALLEN HURST	License: null	
Company	SOTEBEER CONST.		

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Jet	*Pump type:*
	Depth: 35.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 31.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 3.5	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* 15.0 gpm for 0.5 hrs.
Drawdown: ft. *Static water level:* 15.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: SW of the NEof the NW of Section 18 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: SU *on:* Feb 01, 1992
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: 755.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	9.0	SAND
9.0	25.0	SAND & GRAVEL
25.0	35.0	SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60314	3 BLKS S OF LUSHER AVE ON SR 19 AND 2 BLKIS E OF SR 19 ON BOREMAN AVE, ELKHART, IND 46514	May 01, 1974

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	LES COOPER	1915 BOREMAN AVE, ELKHART, IND	
Driller	B. J. MOORE & SON	1606 W. INDIANA AVE, ELKHART, IND	
Operator	WAYNE L. MOORE	License: null	

Construction Details

Well	***Use:*** PS	***Drilling method:*** Jet	***Pump type:***
	Depth: 38.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:*** 33.0	***Material:***	***Diameter:*** 2.0
Screen	***Length:*** 5.0	***Material:***	***Diameter:*** 1.25 ***Slot size:*** 10

Well Capacity Test

Type of test: ***Test rate:*** 15.0 gpm for 2.0 hrs. ***BailTest rate:*** gpm for hrs.
Drawdown: 0.0 ft. ***Static water level:*** 18.0 ft. ***Bailer Drawdown*** ft.

Grouting Information

Material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Well Abandonment

Sealing material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Administrative

County: Elkhart ***Township:*** 37N ***Range:*** 5E
Section: NW of Section 18 ***Topo map:*** Elkhart
Grant Number:
Field located by: ***on:***
Courthouse location by: ***on:***
Location accepted w/o verification by: ***on:***
Subdivision name: ***Lot number:***
Ft W of EL: ***Ft N of SL:*** ***Ft E of WL:*** ***Ft S of NL:***
Ground elevation: ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:***
UTM Easting: ***UTM Northing:***

Well Log

Top	Bottom	Formation
0.0	33.0	CRS BR S&G AND STONES
33.0	39.0	CRS BR SAND & SOME GRAVEL

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60319	ABOUT 1/2 BLK S OF HIVELY AVE ON 17TH ST ON WEST SIDE OF ROAD	Jan 01, 1976

Owner-Contractor Name		*Address*	*Telephone*
Owner	PIERCE TOOL AND DIE CO.	2721 17TH ST, ELKHART, IN	
Driller	B. J. MOORE & SON	1606 W INDIANA AVE, ELKHART, IN	
Operator	WAYNE L. MOORE	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Cable Tool	*Pump type:*
	Depth: 61.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 51.0	*Material:*	*Diameter:* 4.0
Screen	*Length:* 10.0	*Material:*	*Diameter:* 3.75 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 50.0 gpm for 4.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 0.0 ft. *Static water level:* 15.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NEof the SW of Section 18 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: MB *on:* Jan 07, 1977
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: 762.0 *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	24.0	CRS BROWN S&G
24.0	30.0	CRS GRAY GRVL AND CLAY BALLS
30.0	38.0	HARD SANDY BLUE CLAY AND GRVL
38.0	51.0	EXTREMLY HARD PACKED GRAY SAND
51.0	61.0	CRS BROWN SAND GRAVEL & STONES

Comments BASE MAP

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60324	1320 MARKLE AVE ELKHART	May 10, 1974

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	HOBART D. BLOUGH SR	1320 MARKLE, ELK	
Driller	ELKHART CO FARM BUREAU COOP	212 W LINCOLN, GOSHEN	
Operator	BILL HOOVER	License: null	

Construction Details

Well	***Use:*** HOME	***Drilling method:*** Jet	***Pump type:***
	Depth: 46.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:*** 18.0	***Material:***	***Diameter:*** 2.5
Screen	***Length:*** 6.0	***Material:***	***Diameter:*** 2.0 ***Slot size:*** 10

Well Capacity Test

Type of test: ***Test rate:*** gpm for hrs. ***BailTest rate:*** gpm for hrs.
Drawdown: ft. ***Static water level:*** ft. ***Bailer Drawdown*** ft.

Grouting Information

Material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Well Abandonment

Sealing material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Administrative

County: Elkhart ***Township:*** 37N ***Range:*** 5E
Section: NE of Section 18 ***Topo map:*** Elkhart
Grant Number:
Field located by: ***on:***
Courthouse location by: ***on:***
Location accepted w/o verification by: LSV ***on:*** May 20, 1976
Subdivision name: ***Lot number:***
Ft W of EL: ***Ft N of SL:*** ***Ft E of WL:*** ***Ft S of NL:***
Ground elevation: 755.0 ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:***
UTM Easting: ***UTM Northing:***

Well Log

Top	Bottom	Formation
0.0	10.0	SAND
10.0	35.0	GRAVEL & CLAY
35.0	46.0	GRAVEL

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60339	DRILLED ON OAKLAND ST ON CR RD 7 1/2 MILE SOUTH OF LUSHER ST	Sep 30, 1967

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	DAVIS PLUMBING	ELKHART, INDIANA	
Driller	B. KAMM CO.	1234 CHIMES BLVD	
Operator	WILLIAM M. KAMM	License: null	

Construction Details

Well	*Use:* HOME	*Drilling method:* Jet	*Pump type:*
	Depth: 70.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 66.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 10

Well Capacity Test

Type of test: *Test rate:* 10.0 gpm for 1.0 hrs. *BailTest rate:* gpm for hrs.
Drawdown: 0.0 ft. *Static water level:* 14.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
SE *Section:* of Section 18 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	37.0	SAND & GRAVEL
37.0	64.0	CLAY, SAND, GRAVEL
64.0	70.0	SMALL GRAVEL

Comments

073

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60344	SOUTHWEST OF ELKHART, DRILLED ON FIELDHOUSE ROAD 1 BLK EAST OF STATE ROAD 19	Dec 11, 1971

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	PATRICK INDUSTRIES	ELKHART, INDIANA	
Driller	R. KAMM CO.	1234 CHIMES BLVD., SOUTH BEND, IN	
Operator	WILLIAM M. KAMM	License: null	

Construction Details

Well	***Use:*** HOME	***Drilling method:*** Jet	***Pump type:***
	Depth: 44.0	***Pump setting depth:***	***Water quality:***
Casing	***Length:*** 40.0	***Material:***	***Diameter:*** 2.0
Screen	***Length:*** 4.0	***Material:***	***Diameter:*** 1.0 ***Slot size:*** 10

Well Capacity Test

Type of test: ***Test rate:*** 10.0 gpm for 1.0 hrs. ***BailTest rate:*** gpm for hrs.
Drawdown: 0.0 ft. ***Static water level:*** 19.0 ft. ***Bailer Drawdown*** ft.

Grouting Information

Material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Well Abandonment

Sealing material: ***Depth:*** from to
Installation Method: ***Number of bags used:***

Administrative

County: Elkhart ***Township:*** 37N ***Range:*** 5E
Section: of Section 18 ***Topo map:*** Elkhart
Grant Number:
Field located by: ***on:***
Courthouse location by: ***on:***
Location accepted w/o verification by: ***on:***
Subdivision name: ***Lot number:***
Ft W of EL: ***Ft N of SL:*** ***Ft E of WL:*** ***Ft S of NL:***
Ground elevation: ***Depth to bedrock:*** ***Bedrock elevation:*** ***Aquifer elevation:***
UTM Easting: ***UTM Northing:***

Well Log

Top	Bottom	Formation
0.0	22.0	CRS HEAVY GRAVEL
23.0	36.0	FINE SAND
36.0	44.0	SMALL GRAVEL

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60364	1900 BLK LUSHER AVE THE 1900 BLK OF LUSHER IS COVERED BY PATRICK PLYWOOD FACTORY BUT NO LOCATION FOR THE WELL CAN BE DETERMINED - TOO OLD NO ONE REMEM	Mar 30, 1964

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	ELKHART REFRIGERATION CO.	3104 W. FRANKLIN	
Driller	C. E. GANS	1722 ARCH ST, ELKHART, IND	
Operator	C. E. GANS	License: null	

Construction Details

Well	*Use:* INDUSTRIAL	*Drilling method:* Jet	*Pump type:*
	Depth: 44.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:*	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter: Slot size:* 29

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 15.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 18 *Topo map:* Osceola
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	40.0	BROWN GRAVEL

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60369		Feb 19, 1964

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	THUNANDER & SON	1923 MARKLE AVE	
Driller	C E GANS	1722 ARCH ST ELKHART, IN	
Operator	C E GANS	License: null	

Construction Details

Well	*Use:* OTHER	*Drilling method:* Jet	*Pump type:*
	Depth: 43.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:*	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter: Slot size:* 29-10

Well Capacity Test

Type of test: *Test rate:* gpm for hrs. *BailTest rate:* gpm for hrs.
Drawdown: ft. *Static water level:* 18.0 ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: of Section 18 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

Well Log

Top	Bottom	Formation
0.0	40.0	HEAVY GRAY GRAVEL

Comments

076

Record of Water Well

Indiana Department of Natural Resources

Reference Number	*Driving directions to well*	*Date completed*
60393	1321 FIELDHOUSE OFF OF 14TH STREET	Aug 27, 1974

Owner-Contractor	*Name*	*Address*	*Telephone*
Owner	JAMES BARNETT	1321 FIELDHOUSE	
Driller	R. T. MAYFIELD	10807 IRELAND RD	
Operator	R. T. MAYFIELD	License: null	

Construction Details

Well	*Use:* IRRIGATION	*Drilling method:* Jet	*Pump type:*
	Depth: 33.0	*Pump setting depth:*	*Water quality:*
Casing	*Length:* 29.0	*Material:*	*Diameter:* 2.0
Screen	*Length:* 4.0	*Material:*	*Diameter:* 1.25 *Slot size:* 60

Well Capacity Test

Type of test: *Test rate:* 10.0 gpm for 1.0 hrs. *Bail Test rate:* gpm for hrs.
Drawdown: ft. *Static water level:* ft. *Bailer Drawdown* ft.

Grouting Information

Material: *Depth:* from to
Installation Method: *Number of bags used:*

Well Abandonment

Sealing material: *Depth:* from to
Installation Method: *Number of bags used:*

Administrative

County: Elkhart *Township:* 37N *Range:* 5E
Section: NE of Section 18 *Topo map:* Elkhart
Grant Number:
Field located by: *on:*
Courthouse location by: *on:*
Location accepted w/o verification by: *on:*
Subdivision name: *Lot number:*
Ft W of EL: *Ft N of SL:* *Ft E of WL:* *Ft S of NL:*
Ground elevation: *Depth to bedrock:* *Bedrock elevation:* *Aquifer elevation:*
UTM Easting: *UTM Northing:*

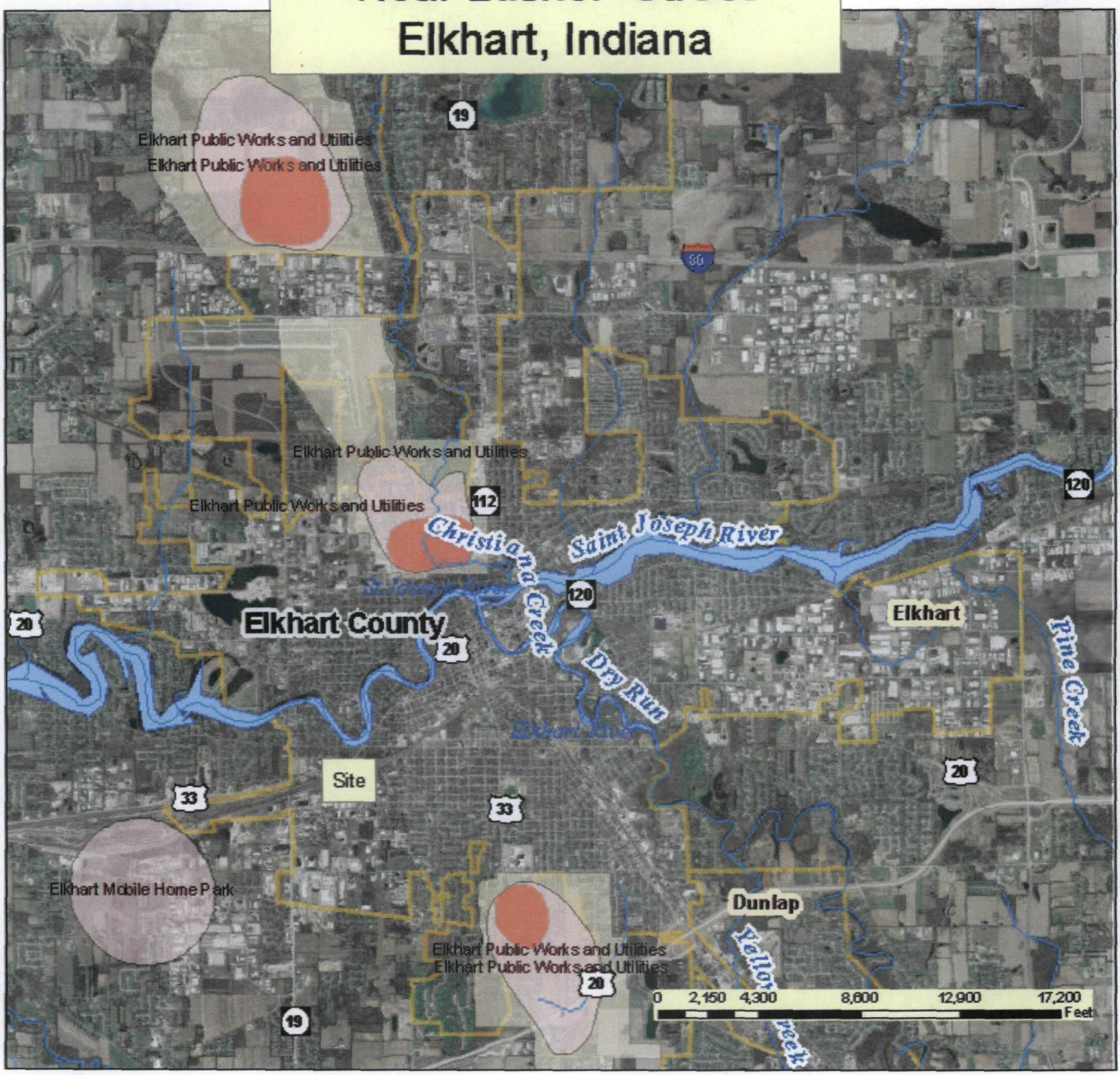
Well Log

Top	Bottom	Formation
0.0	10.0	MEDIUM BR S&G
10.0	13.0	GRAY SANDY CLAY
13.0	20.0	BROWN FINE SAND
20.0	25.0	MEDIUM GRAVEL
25.0	30.0	CRS GRAVEL
30.0	33.0	CRS S&G

Comments

APPENDIX U
Wellhead Protection Areas Near Lusher Steet

Wellhead Protection Areas Near Lusher Street Elkhart, Indiana



N
W E
S

0 0.45 0.9 1.8 Miles

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Information shown on this map is not warranted for accuracy.

Month Day, Year Map Author's Name, Branch, Section