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MEMORANDUM

TO: Chris Lichens, Remedial Project Manager
Site Cleanup Section 4, SFD-7-4

THROUGH: Rose Fong, ESAT Task Order Manager (TOM) RF
Quality Assurance (QA) Program, MTS-3

FROM: Doug Lindelof, Data Review Task Manager
Region 9 Environmental Services Assistance Team (ESAT)

ESAT Contract No.: EP-W-06-041
Technical Direction Form No.: 00105060

DATE: June 25, 2007

SUBJECT: Review of Analytical Data, **Tier 2**

Attached are comments resulting from ESAT Region 9 review of the following analytical data:

Site:	Omega Chem OU2
Site Account No.:	09 BC LA02
CERCLIS ID No.:	CAD042245001
Case No.:	36184
SDG No.:	Y36K5
Laboratory:	Mitkem Corporation (MITKEM)
Analysis:	Trace Volatiles
Samples:	20 Ground Water Samples (see Case Summary)
Collection Date:	February 26, 2007 through March 1, 2007
Reviewer:	April Martinez, ESAT/Laboratory Data Consultants (LDC)

This report has been reviewed by the EPA TOM for the ESAT contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment

cc: Jennie Han-Liu, CLP PO USEPA Region 1
Steve Remaley, CLP PO USEPA Region 9

CLP PO: [X] Attention [X] Action

SAMPLING ISSUES: [X] Yes [ ] No

Data Validation Report – **Tier 2**

Case No.: 36184
SDG No.: Y36K5
Site: Omega Chem OU2
Laboratory: Mitkem Corporation.
Reviewer: April Martinez, ESAT/LDC
Date: June 25, 2007

I. CASE SUMMARY

Sample Information

Samples:	Y36K5 through Y36M4
Concentration and Matrix:	Low Concentration Water
Analysis:	Trace Volatiles
SOW:	SOM01.1
Collection Date:	February 26, 2007 through March 1, 2007
Sample Receipt Date:	February 28, 2007 through March 2, 2007
Extraction Date:	Not Applicable
Analysis Date:	March 1, 2, 3, 7, and 8, 2007

Field QC

Field Blanks (FB):	Y36K6, Y36L4, and Y36M1
Equipment Blanks (EB):	Not Provided
Trip Blank (TB):	Not Provided
Background Samples (BG):	Not Provided
Field Duplicates (D1):	Y36L5 and Y36L6

Laboratory QC

Method Blanks & Associated Samples:

VBLK2C:	Y36K5 through Y36K9, Y35K6MS, Y36K6MSD
VBLK2G:	Y36L1, Y36L5 through Y36L9, Y36M1 through Y36M3
VBLK2H:	Y36M4
VBLK2S:	Y36K5DL, Y36K7DL through Y36K9DL, Y36L0, Y36L1DL, Y36L2 through Y36L4, Y36L8DL, Y36L9DL, Y36M0, Y36M2DL, Y36M3DL
VBLK2T:	Storage blank VHBLK2T

Tables

1A:	Analytical Results with Qualifications
1B:	Data Qualifier Definitions for Organic Data Review
2:	Calibration Summary

CLP PO Action

The nondetected result for vinyl chloride in sample Y36L0 is qualified as rejected (R) due to a very low deuterated monitoring compound (DMC) recovery (<20%) and is flagged "R" in Table 1A (see comment A).

CLP PO Attention

1. Detected results for cis-1,2-dichloroethene in sample Y36K5 and trichloroethene in sample Y36L0 are qualified as nondetected and estimated (U,J) due to method blank and field blank contamination (see Comment C).

2. Results for some analytes are qualified as estimated (J) due to calibration problems (see Comments D and E).

3. Results for some analytes are qualified as estimated (J) due to DMC recovery problems (see Comment F).

4. Detected results for cis-1,2-dichloroethene in sample Y39K6 and tetrachloroethene in sample Y36L7 are qualified as estimated (J) due to concentrations exceeding calibration range (see Comment G).

Sampling Issues

1. The detected result for trichloroethene in sample Y36L0 is qualified as nondetected and estimated (U,J) due to a field blank contamination (see Comment C).

2. The sampler signature is missing on the traffic report & chain of custody records (TR/COC; attached, p. 11 through 14 in data package).

3. The field blank Y36K6 was designated for "laboratory QC" on the TR/COC (attached, p.11 in data package). Consequently, recoveries and relative percent differences for matrix spike/matrix spike duplicate (MS/MSD) analysis are not meaningful.

Additional Comments

As directed by the TOM, a Tier 2 validation (i.e., Tier 3 review of all results not analyzed by SIM and not rejected) was performed. Results for all analytes were reviewed except 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloroethane which were analyzed by SIM.

Initially, results for trans-1,2-dichloroethene in samples Y36K7 and Y36K8 and trichloroethene in sample Y36L5 were not reported on Form 1s. The laboratory submitted revised Form 1s (attached), revised quantitation reports, and mass spectra to report these results.

Other than laboratory artifacts (approximate retention times of 2.0, 2.4, 3.3, and 8.1 minutes), tentatively identified compounds (TICs) were found in samples Y36K7, Y36K9, Y36L0, and Y36L1 (see attached Form 1Js).

This report was prepared in accordance with the following documents:

- ESAT Region 9 Standard Operating Procedure 901, *Guidelines for Data Review of Contract Laboratory Program Analytical Services (CLPAS) Volatile and Semivolatile Data Packages*;

- *USEPA Contract Laboratory Program Statement of Work for Organics Analysis, Multi-Media, Multi-Concentration,* SOM01.1, May 2005; and

- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, January 2005.

II. VALIDATION SUMMARY

The data were evaluated based on the following parameters:

	Parameter	Acceptable	Comment
1	Holding Time/Preservation	Yes	
2	GC/MS Tune/GC Performance	Yes	
3	Initial Calibration	No	D
4	Continuing Calibration	No	D, E
5	Laboratory Blanks	No	C
6	Field Blanks	No	C
7	Deuterated Monitoring Compounds	No	A, F
8	Matrix Spike/Matrix Spike Duplicates	Yes	
9	Laboratory Control Samples/Duplicates	N/A	
10	Internal Standards	Yes	
11	Compound Identification	Yes	
12	Compound Quantitation	No	B, G, H
13	System Performance	Yes	
14	Field Duplicate Sample Analysis	Yes	

N/A = Not Applicable

III. VALIDITY AND COMMENTS

A. The nondetected result for the following analyte is qualified as rejected due to a very low DMC recovery (<20%) and is flagged "R" in Table 1A.

{Vinyl Chloride-d3}
- Vinyl chloride in sample Y36L0

A recovery of 0% was reported for the DMC vinyl chloride-d3 in sample Y36L0. Since the qualified result is nondetected, a false negative may exist. The sample was not reanalyzed.

Surrogates (e.g., deuterated monitoring compounds (DMCs)) are organic compounds which are similar to the target analytes in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples. All samples are spiked with DMCs prior to purging. DMCs

provide information about both the laboratory performance on individual samples and the possible effects of the sample matrix on the analytical results.

B. The following results, denoted with an "L" qualifier, are estimated and flagged "J" in Table 1A.

- All detected results below the contract required quantitation limits

Results below the contract required quantitation limits (CRQLs) are considered to be qualitatively acceptable, but quantitatively unreliable, due to the uncertainty in analytical precision near the limit of detection.

C. The following results are qualified as nondetected and estimated due to method blank and field blank contamination and are flagged "U,J" in Table 1A.

- cis-1,2-Dichloroethene in sample Y36K5
- Trichloroethene in sample Y36L0

cis-1,2-Dichloroethene was found in method blank VBLK2C and trichloroethene was found in field blank Y36K6 (see Table 1A for concentrations). Results for the samples listed above are considered nondetected and estimated (U,J) and quantitation limits have been raised according to blank qualification rules presented below.

No positive results are reported unless the concentration of the compound in the sample exceeds 10 times the amount in any associated blank for common laboratory contaminants or 5 times the amount for other compounds. If the sample result is greater than the CRQL, the quantitation limit is raised to the sample result and reported as nondetected. If the sample result is less than the CRQL, the result is reported as nondetected at the CRQL.

cis-1,2-Dichloroethene results for samples Y36K7, Y36K8, and Y36K9 and 1,1-dichloroethene result for samples Y36K5, Y36K7 through Y36K9, and Y36L1 are not qualified as nondetected and estimated since their concentrations exceed 5 times the amount in associated method blanks. Trichloroethene results for samples Y36K5, Y36K7 through Y36K9, and Y36L1 are not qualified as nondetected and estimated since their concentrations exceed 5 times the amount in the field blank Y36K6.

A laboratory method blank is laboratory reagent water or baked sand analyzed with all reagents, deuterated monitoring compounds, and internal standards and carried through the same sample preparation and analytical procedures as the field samples. The laboratory method blank is used to determine the level of contamination introduced by the laboratory during analysis.

A field blank is clean water prepared as a sample in the field by the sampler and shipped to the laboratory with the samples. A field blank is intended to detect contaminants that may have been introduced in the field, although any laboratory introduced contamination will be present. Contaminants that are found in the field blank which are absent in the laboratory method blank could be indicative of a field QC problem, a deficiency in the bottle preparation procedure, a difference in preparation of the laboratory and field blanks, or other indeterminate error.

D. Results for the following analytes are qualified as estimated due to low relative response factors (RRFs) in initial and continuing calibrations and are flagged "J" in Table 1A.

- Acetone and 1,2-dibromo-3-chloropropane in all samples, all method blanks, and storage blank VHBLK2T
- 2-Butanone in samples Y36K5 through Y36L0, Y36L2 through Y36L4, Y36M0, and Y36M4; method blanks VBLK2C, VBLK2H, VBLK2S, and VBLK2T; and storage blank VHBLK2T
- Dichlorodifluoromethane in samples Y36K5 through Y36KK9, Y36L1, Y36L5 through Y36L9, and Y36M1 through Y36M4 and method blanks VBLK2C, VBLK2G, and VBLK2H

Average RRFs below 0.05 were reported for acetone, 1,2-dibromo-3-chloropropane, and 2-butanone in initial calibrations (see Table 2). RRFs below 0.05 were reported for the analytes listed above in continuing calibrations (see Table 2). Detected results for the analytes listed above should be considered as the minimum concentrations at which these analytes are present in the samples. Where qualified results are nondetected, false negatives may exist.

DMCs 2-butanone-d5 and 2-hexanone-d5 also had RRFs below the 0.05 validation criterion in initial calibration and continuing calibrations (see Table 2). Quantitation of the analytes associated with these DMCs may have been affected by low RRFs (see attached Table 9 from the Functional Guidelines).

The RRF evaluates instrument sensitivity and is used in the quantitation of target analytes.

E. Results for the following analytes are qualified as estimated due to large percent differences (%Ds) in continuing calibrations and are flagged "J" in Table 1A.

- Bromoform in samples Y36L0 through Y36M4; method blanks VBLK2G, VBLK2H, VBLK2S, and VBLK2T; and storage blank VHBLK2T
- 1,2,3-Trichlorobenzene in samples Y36L0, Y36L2 through Y36L4, and Y36M0 and method blank VBLK2S

%Ds exceeded the ±30.0% validation criterion for the analytes listed above in the continuing calibrations (see Table 2).

The continuing calibration checks the instrument performance daily and produces the relative response factors (RRFs) for target analytes that are used for quantitation.

F. Results for the following analytes are qualified as estimated due to DMC recoveries outside QC limits and are flagged "J" in Table 1A.

{Chloroethane-d5}
- Dichlorodifluoromethane in samples Y36K8, Y36K9, and Y36L9

{1,1-Dichloroethene-d2}
- trans-1,2-Dichloroethene and cis-1,2-dichloroethene in samples Y36K7, Y36K8, Y36K9, and Y36L1
- cis-1,2-Dichloroethene in sample Y36M3

{Chloroform-d}
- 1,1-Dichloroethane in samples Y36K7, Y36K9, and Y36L1

{Toluene-d8}
- Trichloroethene, toluene, tetrachloroethene, ethylbenzene, o-xylene, m,p-xylene, styrene, and isopropylbenzene in sample Y36L0

DMC recoveries outside QC limits are shown below.

Sample	DMC	% Recovery	QC Limit
Y36L0	Vinyl chloride-d3	0	65-131
Y36K5	Chloroethane-d5	135	71-131
Y36K6MS	Chloroethane-d5	135	71-131
Y36K8	Chloroethane-d5	132	71-131
Y36K9	Chloroethane-d5	134	71-131
Y36L6	Chloroethane-d5	139	71-131
Y36L7	Chloroethane-d5	140	71-131
Y36L9	Chloroethane-d5	141	71-131
Y36M1	Chloroethane-d5	134	71-131
Y36M2	Chloroethane-d5	136	71-131
Y36M3	Chloroethane-d5	134	71-131
Y36M4	Chloroethane-d5	151	71-131
Y36K5	1,1-Dichloroethene-d2	112	55-104
Y36K7	1,1-Dichloroethene-d2	1811	55-104
Y36K8	1,1-Dichloroethene-d2	1786	55-104
Y36K9	1,1-Dichloroethene-d2	1484	55-104
Y36L1	1,1-Dichloroethene-d2	2338	55-104
Y36M3	1,1-Dichloroethene-d2	151	55-104
Y36L1DL	1,1-Dichloroethene-d2	125	55-104

Sample	DMC	% Recovery	QC Limit
Y36K7	Chloroform-d	130	78-121
Y36K9	Chloroform-d	142	78-121
Y36L1	Chloroform-d	190	78-121
Y36L0	Toluene-d8	71	77-121
Y36K9DL	t-1,3-Dichloropropene-d4	72	73-121
Y36L1DL	t-1,3-Dichloropropene-d4	72	73-121

Detected results for affected analytes where DMC recoveries fell below QC limits may be biased low; where qualified results are nondetected, false negatives may exist. Detected results for affected analytes where DMC recoveries exceeded QC limits may be biased high. For DMC recoveries that exceeded QC limits, only detected results for associated analytes are qualified. The samples were not reanalyzed.

G. Detected results for the following analytes are qualified as estimated due to concentrations exceeding calibration range and are flagged "J" in Table 1A.

- cis-1,2-Dichloroethene in sample Y36K9
- Tetrachloroethene in sample Y36L7

Concentrations of cis-1,2-dichloroethene in sample Y36K9 and tetrachloroethene in sample Y36L7 in the undiluted analyses were 26 ug/L and 21 ug/L, respectively. These values exceed the 0.5-20 ug/L calibration range. The laboratory reanalyzed sample Y36K9 at a 80-fold dilution but the cis-1,2-dichloroethene concentration was below the quantitation limit. Sample Y36L7 was not reanalyzed.

Results reported in Table 1A for these analytes are from the undiluted analyses. Their concentrations are considered to be qualitatively acceptable but quantitatively questionable and should be considered as the minimum concentrations at which these analytes are present in the samples.

H. Samples Y36K5 and Y36M2 were reanalyzed at 10-fold and 20-fold dilutions, respectively, due to high levels of trichloroethene and tetrachloroethene. Results for trichloroethene and tetrachloroethene in samples Y36K5 and Y36M2 are reported from the diluted analyses in Table 1A; results for other analytes are reported from the undiluted analyses.

Samples Y36K7, Y36K8, Y36K9, and Y36L1 were reanalyzed at 80-fold dilutions due to high levels of trichlorofluoromethane, 1,1-dichloroethene, 1,1,2-trichloro-1,2,2-trifluoroethane, chloroform, trichloroethene, and tetrachloroethene. Results for these analytes in samples Y36K7, Y36K8, Y36K9, and Y36L1 are reported from the diluted analyses in Table 1A; results for other analytes are reported from the undiluted analyses.

Sample Y36L8 was reanalyzed at a 4-fold dilution due to a high level of trichloroethene that exceeded the calibration range. The result for trichloroethene in sample Y36L8 is reported from the diluted analysis in Table 1A; results for other analytes are reported from the undiluted analysis.

Samples Y36L9 and Y36M3 were reanalyzed at 4-fold and 50-fold dilutions, respectively, due to high levels of tetrachloroethene. Results for tetrachloroethene in samples Y36L9 and Y36M3 are reported from the diluted analyses in Table 1A; results for other analytes are reported from the undiluted analyses.

ANALYTICAL RESULTS
Table 1A - Tier 2

Case No. : 36184 SDG No. : Y36K5
Site : Omega Chem OU2
Lab : MITKEM CORPORATION
Reviewer : April Martinez, ESAT/LDC
Date : 06/25/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	Y36K5			Y36K6			Y36K7			Y36K8			Y36K9			Y36L0		
Sample ID :	Y36K5			Y36K6		FB	Y36K7			Y36K8			Y36K9			Y36L0		
Collection Date :	2/26/2007			2/26/2007			2/26/2007			2/26/2007			2/26/2007			2/26/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50U	J	D	0.50U	J	D	9.2	J	D	6.6	J	DF	8.5	J	DF	0.50U		
Chloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Vinyl chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	R	A
Bromomethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	6.9			0.50U			210		H	200		H	170		H	0.50U		
1,1-Dichloroethene	9.4			0.50U			560		H	540		H	420		H	0.50U		
1,1,2-Trichloro-1,2,2-trifluoroethane	18			0.50U			490		H	510		H	560		H	0.50U		
Acetone	5.0U	J	D	5.0U	J	D	50	J	D	42	J	D	40	J	D	5.0U	J	D
Carbon disulfide	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl acetate	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methylene chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,2-Dichloroethene	0.50U			0.50U			0.60	J	F	0.51	J	F	1.7	J	F	0.50U		
Methyl tert-butyl ether	0.50U			0.50U			3.9			3.4			1.7			0.50U		
1,1-Dichloroethane	0.50U			0.50U			2.2	J	F	2.1			2.7	J	F	0.50U		
cis-1,2-Dichloroethene	1.1U	J	C	0.50U			2.7	J	F	8.1	J	F	26	J	FG	0.50U		
2-Butanone	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroform	1.3			0.50U			87	J	FH	50		H	100	J	FH	0.50U		
1,1,1-Trichloroethane	0.50U			0.50U			0.52			0.49L	J	B	0.37L	J	B	0.50U		
Cyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Carbon tetrachloride	0.50U			0.50U			0.36L	J	B	0.50U			0.50U			0.50U		
Benzene	0.50U			0.50U			0.28L	J	B	0.32L	J	B	0.33L	J	B	0.50U		
1,2-Dichloroethane	0.50U			0.50U			3.8			2.4			11			0.50U		
1,4-Dioxane	20U			20U			20U			20U			20U			20U		
Trichloroethene	130		H	0.26L	J	B	150		H	350		H	670		H	0.50U	J	CF

Results for 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were not reviewed.

ANALYTICAL RESULTS
Table 1A - Tier 2

Case No. : 36184 SDG No. : Y36K5
Site : Omega Chem OU2
Lab : MITKEM CORPORATION
Reviewer : April Martinez, ESAT/LDC
Date : 06/25/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	Y36K5			Y36K6			Y36K7			Y36K8			Y36K9			Y36L0		
Sample ID :	Y36K5			Y36K6		FB	Y36K7			Y36K8			Y36K9			Y36L0		
Collection Date :	2/26/2007			2/26/2007			2/26/2007			2/26/2007			2/26/2007			2/26/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Methylcyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.30L	J	B	0.83		
cis-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.20L	J	B	0.50U		
4-Methyl-2-pentanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Toluene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	J	F
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	0.50U			0.50U			0.32L	J	B	0.28L	J	B	0.55			0.50U		
Tetrachloroethene	26		H	0.50U			530		H	510		H	620		H	0.50U	J	F
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			4.4		
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	J	F
o-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	J	F
m,p-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	J	F
Styrene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	J	F
Bromoform	0.50U			0.50U			0.50U			0.50U			0.50U			13	J	E
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	J	F
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	J	E

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation LImit
N/A - Not Applicable
NA - Not Analyzed
Results for 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were not reviewed.

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank,
TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Table 1A - Tier 2

Case No. : 36184 SDG No. : Y36K5
Site : Omega Chem OU2
Lab : MITKEM CORPORATION
Reviewer : April Martinez, ESAT/LDC
Date : 06/25/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	Y36L1			Y36L2			Y36L3			Y36L4			Y36L5			Y36L6		
Sample ID :	Y36L1			Y36L2			Y36L3			Y36L4	FB		Y36L5	D1		Y36L6	D1	
Collection Date :	2/26/2007			2/27/2007			2/27/2007			2/27/2007			2/27/2007			2/27/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	22	J	D	0.50U			0.50U			0.50U			0.50U	J	D	0.50U	J	D
Chloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Vinyl chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromomethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	400		H	0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethene	1000		H	0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloro-1,2,2-trifluoroethane	1100		H	0.50U			0.31L	J	B	0.50U			0.74			0.60		
Acetone	70	J	D	5.0U	J	D	26	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D
Carbon disulfide	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl acetate	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methylene chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,2-Dichloroethene	1.8	J	F	0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl tert-butyl ether	3.1			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethane	4.1	J	F	0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,2-Dichloroethene	4.6	J	F	0.50U			0.50U			0.50U			0.50U			0.50U		
2-Butanone	5.0U			5.0U	J	D	5.0U	J	D	4.5L	J	BD	5.0U			5.0U		
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroform	200		H	0.50U			0.50U			0.50U			0.29L	J	B	0.25L	J	B
1,1,1-Trichloroethane	0.94			0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Carbon tetrachloride	0.28L	J	B	0.50U			0.50U			0.50U			0.50U			0.50U		
Benzene	0.41L	J	B	0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloroethane	13			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dioxane	20U			20U			20U			20U			20U			20U		
Trichloroethene	240		H	0.50U			0.61			0.50U			1.4			1.4		

Results for 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were not reviewed.

ANALYTICAL RESULTS
Table 1A - Tier 2

Case No. : 36184 SDG No. : Y36K5
Site : Omega Chem OU2
Lab : MITKEM CORPORATION
Reviewer : April Martinez, ESAT/LDC
Date : 06/25/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	Y36L1			Y36L2			Y36L3			Y36L4			Y36L5			Y36L6		
Sample ID :	Y36L1			Y36L2			Y36L3			Y36L4		FB	Y36L5		D1	Y36L6		D1
Collection Date :	2/26/2007			2/27/2007			2/27/2007			2/27/2007			2/27/2007			2/27/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Methylcyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
4-Methyl-2-pentanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Toluene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	0.57			0.50U			0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	920		H	0.50U			0.95			0.50U			8.2			8.0		
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
o-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
m,p-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Styrene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromoform	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,3-Trichlorobenzene	0.50U			0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U			0.50U		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation LImit
N/A - Not Applicable
NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank,
TB - Trip Blank, BG - Background Sample

Results for 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were not reviewed.

ANALYTICAL RESULTS
Table 1A - Tier 2

Case No. : 36184 SDG No. : Y36K5
Site : Omega Chem OU2
Lab : MITKEM CORPORATION
Reviewer : April Martinez, ESAT/LDC
Date : 06/25/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	Y36L7			Y36L8			Y36L9			Y36M0			Y36M1			Y36M2		
Sample ID :	Y36L7			Y36L8			Y36L9			Y36M0			Y36M1		FB	Y36M2		
Collection Date :	2/27/2007			2/28/2007			2/28/2007			2/28/2007			2/28/2007			2/28/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50U	J	D	0.50U	J	D	1.4	J	DF	0.50U			0.50U	J	D	0.50U	J	D
Chloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Vinyl chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromomethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	0.50U			0.42L	J	B	0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethene	0.39L	J	B	0.51			1.1			0.64			0.50U			3.9		
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3			0.82			1.3			0.79			0.50U			0.28L	J	B
Acetone	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D
Carbon disulfide	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl acetate	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methylene chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,2-Dichloroethene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl tert-butyl ether	0.50U			0.50U			0.50U			0.50U			0.50U			0.27L	J	B
1,1-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,2-Dichloroethene	0.96			0.33L	J	B	3.9			0.74			0.50U			7.6		
2-Butanone	5.0U			5.0U			5.0U			5.0U	J	D	5.0U			5.0U		
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroform	0.36L	J	B	0.88			0.64			0.56			0.50U			0.63		
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Carbon tetrachloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Benzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dioxane	20U			20U			20U			20U			20U			20U		
Trichloroethene	1.3			37		H	6.6			4.3			0.50U			29		H

Results for 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were not reviewed.

ANALYTICAL RESULTS
Table 1A - Tier 2

Case No. : 36184 SDG No. : Y36K5
Site : Omega Chem OU2
Lab : MITKEM CORPORATION
Reviewer : April Martinez, ESAT/LDC
Date : 06/25/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	Y36L7			Y36L8			Y36L9			Y36M0			Y36M1			Y36M2		
Sample ID :	Y36L7			Y36L8			Y36L9			Y36M0			Y36M1		FB	Y36M2		
Collection Date :	2/27/2007			2/28/2007			2/28/2007			2/28/2007			2/28/2007			2/28/2007		
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Methylcyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
4-Methyl-2-pentanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Toluene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	21	J	G	1.5			49		H	13			0.50U			180		H
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
o-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
m,p-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Styrene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromoform	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E	0.50U	J	E
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U	J	E	0.50U			0.50U		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit
N/A - Not Applicable
NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank,
TB - Trip Blank, BG - Background Sample

Results for 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were not reviewed.

ANALYTICAL RESULTS
Table 1A - Tier 2

Case No. : 36184 SDG No. : Y36K5
Site : Omega Chem OU2
Lab : MITKEM CORPORATION
Reviewer : April Martinez, ESAT/LDC
Date : 06/25/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	Y36M3			Y36M4			Method Blank			Method Blank			Method Blank			Method Blank		
Sample ID :	Y36M3			Y36M4			VBLK2C			VBLK2G			VBLK2H			VBLK2S		
Collection Date :	2/28/2007			3/1/2007														
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U		
Chloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Vinyl chloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromomethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichlorofluoromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethene	17			0.31L	J	B	0.23L	J	B	0.50U			0.50U			0.50U		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.51			0.50U			0.50U			0.50U			0.50U			0.50U		
Acetone	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D	5.0U	J	D
Carbon disulfide	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl acetate	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methylene chloride	0.50U			0.50U			0.37L	J	B	0.43L	J	B	0.42L	J	B	0.50U		
trans-1,2-Dichloroethene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl tert-butyl ether	0.33L	J	B	0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethane	1.1			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,2-Dichloroethene	3.8	J	F	0.50U			0.37L	J	B	0.50U			0.50U			0.50U		
2-Butanone	5.0U			5.0U	J	D	5.0U	J	D	5.0U			5.0U	J	D	5.0U	J	D
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroform	1.2			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Carbon tetrachloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Benzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dioxane	20U			20U			20U			20U			20U			20U		
Trichloroethene	20			1.1			0.50U			0.50U			0.50U			0.50U		

Results for 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were not reviewed.

ANALYTICAL RESULTS
Table 1A - Tier 2

Case No. : 36184 SDG No. : Y36K5
Site : Omega Chem OU2
Lab : MITKEM CORPORATION
Reviewer : April Martinez, ESAT/LDC
Date : 06/25/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	Y36M3			Y36M4			Method Blank			Method Blank			Method Blank			Method Blank		
Sample ID :	Y36M3			Y36M4			VBLK2C			VBLK2G			VBLK2H			VBLK2S		
Collection Date :	2/28/2007			3/1/2007														
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0		
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Methylcyclohexane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
4-Methyl-2-pentanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Toluene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	0.48L	J	B	0.50U			0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	340		H	0.20L	J	B	0.50U			0.50U			0.50U			0.50U		
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
o-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
m,p-Xylene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Styrene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromoform	0.50U	J	E	0.50U	J	E	0.50U			0.50U	J	E	0.50U	J	E	0.50U	J	E
Isopropylbenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	0.61			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50U			0.27L	J	B	0.50U			0.50U	J	E

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation LImit
N/A - Not Applicable
NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank,
TB - Trip Blank, BG - Background Sample

Results for 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were not reviewed.

ANALYTICAL RESULTS
Table 1A - Tier 2

Case No. : 36184 SDG No. : Y36K5
Site : Omega Chem OU2
Lab : MITKEM CORPORATION
Reviewer : April Martinez, ESAT/LDC
Date : 06/25/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	Method Blank			Storage Blank			CRQL											
Sample ID :	VBLK2T			VHBLK2T														
Collection Date :																		
Dilution Factor :	1.0			1.0														
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50U			0.50U			0.50											
Chloromethane	0.50U			0.50U			0.50											
Vinyl chloride	0.50U			0.50U			0.50											
Bromomethane	0.50U			0.50U			0.50											
Chloroethane	0.50U			0.50U			0.50											
Trichlorofluoromethane	0.50U			0.50U			0.50											
1,1-Dichloroethene	0.50U			0.50U			0.50											
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U			0.50U			0.50											
Acetone	5.0U	J	D	5.0U	J	D	5.0											
Carbon disulfide	0.50U			0.50U			0.50											
Methyl acetate	0.50U			0.50U			0.50											
Methylene chloride	0.50U			0.50U			0.50											
trans-1,2-Dichloroethene	0.50U			0.50U			0.50											
Methyl tert-butyl ether	0.50U			0.50U			0.50											
1,1-Dichloroethane	0.50U			0.50U			0.50											
cis-1,2-Dichloroethene	0.50U			0.50U			0.50											
2-Butanone	5.0U	J	D	5.0U	J	D	5.0											
Bromochloromethane	0.50U			0.50U			0.50											
Chloroform	0.50U			0.50U			0.50											
1,1,1-Trichloroethane	0.50U			0.50U			0.50											
Cyclohexane	0.50U			0.50U			0.50											
Carbon tetrachloride	0.50U			0.50U			0.50											
Benzene	0.50U			0.50U			0.50											
1,2-Dichloroethane	0.50U			0.50U			0.50											
1,4-Dioxane	20U			20U			20											
Trichloroethene	0.50U			0.50U			0.50											

Results for 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were not reviewed.

ANALYTICAL RESULTS
Table 1A - Tier 2

Case No. : 36184 SDG No. : Y36K5
Site : Omega Chem OU2
Lab : MITKEM CORPORATION
Reviewer : April Martinez, ESAT/LDC
Date : 06/25/07

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Trace Level Water Samples for Trace Volatiles

Station Location :	Method Blank			Storage Blank			CRQL											
Sample ID :	VBLK2T			VHBLK2T														
Collection Date :																		
Dilution Factor :	1.0			1.0														
Trace Volatiles	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Methylcyclohexane	0.50U			0.50U			0.50											
1,2-Dichloropropane	0.50U			0.50U			0.50											
Bromodichloromethane	0.50U			0.50U			0.50											
cis-1,3-Dichloropropene	0.50U			0.50U			0.50											
4-Methyl-2-pentanone	5.0U			5.0U			5.0											
Toluene	0.50U			0.50U			0.50											
trans-1,3-Dichloropropene	0.50U			0.50U			0.50											
1,1,2-Trichloroethane	0.50U			0.50U			0.50											
Tetrachloroethene	0.50U			0.50U			0.50											
2-Hexanone	5.0U			5.0U			5.0											
Dibromochloromethane	0.50U			0.50U			0.50											
1,2-Dibromoethane	0.50U			0.50U			0.50											
Chlorobenzene	0.50U			0.50U			0.50											
Ethylbenzene	0.50U			0.50U			0.50											
o-Xylene	0.50U			0.50U			0.50											
m,p-Xylene	0.50U			0.50U			0.50											
Styrene	0.50U			0.50U			0.50											
Bromoform	0.50U	J	E	0.50U	J	E	0.50											
Isopropylbenzene	0.50U			0.50U			0.50											
1,1,2,2-Tetrachloroethane	0.50U			0.50U			0.50											
1,3-Dichlorobenzene	0.50U			0.50U			0.50											
1,4-Dichlorobenzene	0.50U			0.50U			0.50											
1,2-Dichlorobenzene	0.50U			0.50U			0.50											
1,2-Dibromo-3-chloropropane	0.50U	J	D	0.50U	J	D	0.50											
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50											
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50											

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation LImit
N/A - Not Applicable
NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank,
TB - Trip Blank, BG - Background Sample

Results for 1,4-dioxane, 1,2-dibromoethane, and 1,2-dibromo-3-chloropropane were not reviewed.

TABLE 1B

DATA QUALIFIER DEFINITIONS FOR ORGANIC DATA REVIEW

The definitions of the following qualifiers are prepared according to the document, "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review," January 2005.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method.

L Indicates results which fall below the Contract Required Quantitation Limit. Results are estimated and are considered qualitatively acceptable but quantitatively unreliable due to uncertainties in the analytical precision near the limit of detection.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL).

NJ The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

Table 2
Calibration Summary

Case No.: 36184
SDG No.: Y36K5
Site: Omega Chem OU2
Laboratory: Mitkem Corporation
Reviewer: April Martinez, ESAT/LDC
Date: June 25, 2007

RELATIVE RESPONSE FACTORS (RRF)

	RRF	RRF	RRF	RRF	RRF
Analysis date:	02/27/07	03/01/07	03/02/07	03/02/07	03/03/07
Analysis time:	10:56-	16:10	01:00	21:35	09:28
GC/MS I.D.:	V2	V2	V2	V2	V2
Analyte	Init.	Cont.	Cont.	Cont.	Cont.
Dichlorodifluoromethane	-----	0.044	0.038	0.043	0.032
Acetone	0.026	0.023	0.022	0.023	0.024
2-Butanone	-----	0.049	0.044	-----	-----
1,2-Dibromo-3-chloropropane	0.038	0.041	0.042	0.043	0.041
2-Butanone-d5	0.049	-----	0.036	0.047	0.044
2-Hexanone-d5	0.042	0.048	0.033	0.041	0.037

	RRF	RRF	RRF	RRF	RRF
Analysis date:	03/06/07	03/03/07	03/07/07	03/08/07	03/08/07
Analysis time:	12:52-	21:16	19:48	07:07	18:48
GC/MS I.D.:	V2	V2	V2	V2	V2
Analyte	Init.	Cont.	Cont.	Cont.	Cont.
Dichlorodifluoromethane	-----	0.041	-----	-----	-----
Acetone	0.026	0.022	0.024	0.022	0.027
2-Butanone	0.044	0.044	-----	-----	-----
1,2-Dibromo-3-chloropropane	0.027	0.035	0.031	0.035	0.034
2-Butanone-d5	0.042	0.039	0.044	0.042	0.047
2-Hexanone-d5	0.039	0.032	0.041	0.039	0.041

PERCENT DIFFERENCES (%D)

	%D	%D	%D	%D
Analysis Date:	03/02/07	03/03/07	03/07/07	03/08/07
Analysis Time:	21:35	09:28	19:48	07:07
GC/MS I.D.:	V2	V2	V2	V2
Analyte	Cont.	Cont.	Cont.	Cont.
Bromoform	+30.6	+30.8	-----	+34.0
1,2,3-Trichlorobenzene	-----	------	+34.0	-----

+ = RRF biased high.

ASSOCIATED SAMPLES AND METHOD BLANKS

Initial 02/27/07:	Samples Y36K5 through Y36K9, Y36L1, Y36L5 through Y36L9, Y36M1 through Y36M4, Y35K6MS, Y36K6MSD and method blanks VBLK2C, VBLK2G and VBLK2H
Cont., 03/01/07 (16:10):	Y36K5 through Y36K9, Y35K6MS, Y36K6MSD and method blank VBLK2C
Cont., 03/02/07 (01:00):	Y36K5 through Y36K9, Y35K6MS, Y36K6MSD and method blank VBLK2C
Cont., 03/02/07 (21:35):	Y36L1, Y36L5 through Y36L9, Y36M1 through Y36M3 and method blank VBLK2G
Cont., 03/03/07 (09:28):	Y36L1, Y36L5 through Y36L9, Y36M1 through Y36M3 and method blank VBLK2G
Cont., 03/03/07 (21:16):	Y36M4 and method blank VBLK2H
Initial 03/06/07:	Y36K5DL through Y36K9DL, Y36L0, Y36L1DL, Y36L2 through Y36L4, Y36L8DL, Y36L9DL, Y36M0, Y36M2DL, Y36M3DL, method blanks VBLK2S, VBLK2T and Storage blank VHBLK2T
Cont., 03/07/07 (19:48):	Y36K5DL through Y36K9DL, Y36L0, Y36L1DL, Y36L2 through Y36L4, Y36L8DL, Y36L9DL, Y36M0, Y36M2DL, Y36M3DL and method blank VBLK2S
Cont., 03/08/07 (07:07):	Y36K5DL through Y36K9DL, Y36L0, Y36L1DL, Y36L2 through Y36L4, Y36L8DL, Y36L9DL, Y36M0, Y36M2DL, method blanks VBLK2S, VBLK2T and storage blank VHBLK2T
Cont., 03/08/07 (18:48):	Storage blank VHBLK2T and method blank VBLK2T.

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

Case No:	36184
DAS No:	
SDG No:	Y36K5

L

Date Shipped:	~~2/26/2007~~ 2-27-2007
Carrier Name:	FedEx
Airbill:	859278042139
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	2-27-07 / 1530		2-28-07 8:50
2			
3			
4			

Sampler Signature:

For Lab Use Only

Lab Contract No:	EP-W-05-030
Unit Price:	$0
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
01	Y36K5	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	100 (Not preserved), 101 (Not preserved), 110 (HCL), 111 (HCL), 112 (HCL), 113 (HCL) (6)	Y36K5	S: 2/26/2007	10:05		OK
02	Y36K6	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)	114 (HCL), 115 (HCL), 116 (HCL), 117 (HCL) (4)	Y36K6	S: 2/26/2007	10:15		
03	Y36K7	Ground Water/ Robert Hernandez	M/G	SIM TVOA (21), SVOA (21)	102 (Not preserved), 103 (Not preserved), 118 (HCL), 119 (HCL), 120 (HCL), 121 (HCL) (6)	Y36K7	S: 2/26/2007	11:10		
04	Y36K8	Ground Water/ Robert Hernandez	M/G	SIM TVOA (21), SVOA (21)	104 (Not preserved), 105 (Not preserved), 122 (HCL), 123 (HCL), 124 (HCL), 125 (HCL) (6)	Y36K8	S: 2/26/2007	11:48		
05	Y36K9	Ground Water/ Robert Hernandez	M/G	SIM TVOA (21), SVOA (21)	106 (Not preserved), 107 (Not preserved), 126 (HCL), 127 (HCL), 128 (HCL), 129 (HCL) (6)	Y36K9	S: 2/26/2007	13:46		
06	Y36L0	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)	132 (HCL), 133 (HCL), 134 (HCL), 135 (HCL) (4)	Y36L0	S: 2/26/2007	13:40		
07	Y36L1	Ground Water/ Robert Hernandez	H/G	SIM TVOA (21), SVOA (21)	108 (Not preserved), 109 (Not preserved), 136 (HCL), 137 (HCL), 138 (HCL), 139 (HCL) (6)	Y36L1	S: 2/26/2007	15:12		

Shipment for Case Complete?	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
N	Y36K6		3°C	

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

SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane

TR Number: 9-373659945-022607-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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

Case No:	36184
DAS No:	
SDG No:	Y36K5

L

Date Shipped:	2/27/2007
Carrier Name:	FedEx
Airbill:	859278042139
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

	Relinquished By	(Date / Time)	Sampler Signature: Received By	(Date / Time)
1		2-27-07/1530		2-28-07 8:50
2				
3				
4				

For Lab Use Only

Lab Contract No:	EP-W-05-030
Unit Price:	$0
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
08	Y36L2	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	140 (Not preserved), 141 (Not preserved), 152 (HCL), 153 (HCL), 154 (HCL), 155 (HCL) (6)	Y36L2	S: 2/27/2007	9:40		AEN 2/28/07 one OK 1L amber rec'd broken
09	Y36L3	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	142 (Not preserved), 143 (Not preserved), 156 (HCL), 157 (HCL), 158 (HCL), 159 (HCL) (6)	Y36L3	S: 2/27/2007	10:25		OK
10	Y36L4	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	144 (Not preserved), 145 (Not preserved), 160 (HCL), 161 (HCL), 162 (HCL), 163 (HCL) (6)	Y36L4	S: 2/27/2007	10:00		1-L amber missing
11	Y36L5	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	146 (Not preserved), 147 (Not preserved), 164 (HCL), 165 (HCL), 166 (HCL), 167 (HCL) (6)	Y36L5	S: 2/27/2007	11:05		OK
12	Y36L6	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	148 (Not preserved), 149 (Not preserved), 168 (HCL), 169 (HCL), 170 (HCL), 171 (HCL) (6)	Y36L6	S: 2/27/2007	11:10		OK
13	Y36L7	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	150 (Not preserved), 151 (Not preserved), 172 (HCL), 173 (HCL), 174 (HCL), 175 (HCL) (6)	Y36L7	S: 2/27/2007	13:02		OK

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

SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane

TR Number: 9-373659945-022707-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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

Case No:	36184
DAS No:	
SDG No:	Y36K5

L

Date Shipped:	2/28/2007
Carrier Name:	FedEx
Airbill:	8592-7811-0283
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	2-28-07 / 1530	3.1.07 8:50
2		
3		
4		

Sampler Signature:

For Lab Use Only

Lab Contract No:	EP-W-05-030
Unit Price:	$0
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
14	Y36L8	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	176 (Not preserved), 177 (Not preserved), 186 (HCL), 187 (HCL), 188 (HCL), 189 (HCL) (6)	Y36L8	S: 2/28/2007	9:15		OK
15	Y36L9	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	178 (Not preserved), 179 (Not preserved), 190 (HCL), 191 (HCL), 192 (HCL), 193 (HCL) (6)	Y36L9	S: 2/28/2007	10:12		
16	Y36M0	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	180 (Not preserved), 181 (Not preserved), 194 (HCL), 195 (HCL), 196 (HCL), 197 (HCL) (6)	Y36M0	S: 2/28/2007	10:51		
17	Y36M1	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)	198 (HCL), 199 (HCL), 200 (HCL), 201 (HCL) (4)	Y36M1	S: 2/28/2007	11:00		
18	Y36M2	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	182 (Not preserved), 183 (Not preserved), 202 (HCL), 203 (HCL), 204 (HCL), 205 (HCL) (6)	Y36M2	S: 2/28/2007	11:30		
19	Y36M3	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	184 (Not preserved), 185 (Not preserved), 206 (HCL), 207 (HCL), 208 (HCL), 209 (HCL) (6)	Y36M3	S: 2/28/2007	13:17		OK

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 20C	Chain of Custody Seal Number:

Analysis Key: **Concentration:** L = Low, M = Low/Medium, H = High **Type/Designate:** Composite = C, Grab = G

Custody Seal Intact? Y | Shipment Iced? Y

SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane

TR Number: 9-373659945-022807-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

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

Case No: 36184
DAS No:
SDG No: Y36K5 — L

Date Shipped:	3/1/2007
Carrier Name:	FedEx
Airbill:	8592-7811-0310
Shipped to:	Mitkem Corporation 175 Metro Center Blvd. Warwick RI 02886 (401) 732-3400

Chain of Custody Record

	Relinquished By (Date / Time)	Received By (Date / Time)
1	3-1-07 1600	3-2-07 8:50
2		
3		
4		

Sampler Signature:

For Lab Use Only

Lab Contract No:	EP-W-05-030
Unit Price:	$0
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
200	Y36M4	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	210 (Not preserved), 211 (Not preserved), 222 (HCL), 223 (HCL), 224 (HCL), 225 (HCL) (6)	Y36M4	S: 3/1/2007	9:21		OK
1	Y36M5	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	212 (Not preserved), 213 (Not preserved), 226 (HCL), 227 (HCL), 228 (HCL), 229 (HCL) (6)	Y36M5	S: 3/1/2007	10:08		
2	Y36M6	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	214 (Not preserved), 215 (Not preserved), 230 (HCL), 231 (HCL), 232 (HCL), 233 (HCL) (6)	Y36M6	S: 3/1/2007	10:53		
3	Y36M7	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21)	234 (HCL), 235 (HCL), 236 (HCL), 237 (HCL) (4)	Y36M7	S: 3/1/2007	10:38		
4	Y36M8	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	216 (Not preserved), 217 (Not preserved), 238 (HCL), 239 (HCL), 240 (HCL), 241 (HCL) (6)	Y36M8	S: 3/1/2007	12:25		
5	Y36M9	Ground Water/ Robert Hernandez	L/G	SIM TVOA (21), SVOA (21)	218 (Not preserved), 219 (Not preserved), 220 (Not preserved), 221 (Not preserved), 242 (HCL), 243 (HCL), 244 (HCL), 245 (HCL), 246 (HCL), 247 (HCL), 248 (HCL), 249 (HCL) (12)	Y36M9	S: 3/1/2007	13:25		OK AKN 3/2/07

200 → SDG-Final Sample Arrival 3/2/07

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt:	Chain of Custody Seal Number:
	Y36M6 LABELED "LAB QC"		2°C	

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

SIM TVOA = CLP TCL Volatiles (including SIM), SVOA = 1,4-Dioxane

TR Number: 9-373659945-030107-0001

LABORATORY COPY

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 2000 Edmund Halley Dr., Reston, VA. 20191-3400 Phone 703/264-9348 Fax 703/264-9222

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y36K7

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 36184 Mod. Ref No.: SDG No.: Y36K5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: F0259-03A

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: V2J3285.D

Level: (TRACE/LOW/MED) TRACE Date Received: 02/28/2007

% Moisture: not dec. Date Analyzed: 03/01/2007

GC Column: DB-624 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	9.2	
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	340	E
75-35-4	1,1-Dichloroethene	400	EB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	480	E
67-64-1	Acetone	50	
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	0.60	
1634-04-4	Methyl tert-butyl ether	3.9	
75-34-3	1,1-Dichloroethane	2.2	
156-59-2	cis-1,2-Dichloroethene	2.7	B
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	74	E
71-55-6	1,1,1-Trichloroethane	0.52	
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.36	J
71-43-2	Benzene	0.28	J
107-06-2	1,2-Dichloroethane	3.8	
123-91-1	1,4-Dioxane	20	U

0071R

1A - FORM I VOA-1

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y36K8

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 36184 Mod. Ref No.: SDG No.: Y36K5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: F0259-04A

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: V2J3286.D

Level: (TRACE/LOW/MED) TRACE Date Received: 02/28/2007

% Moisture: not dec. Date Analyzed: 03/01/2007

GC Column: DB-624 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	6.6	
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	330	E
75-35-4	1,1-Dichloroethene	390	EB
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	430	E
67-64-1	Acetone	42	
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	0.51	
1634-04-4	Methyl tert-butyl ether	3.4	
75-34-3	1,1-Dichloroethane	2.1	
156-59-2	cis-1,2-Dichloroethene	8.1	B
78-93-3	2-Butanone	5.0	U
74-97-5	Bromochloromethane	0.50	U
67-66-3	Chloroform	43	E
71-55-6	1,1,1-Trichloroethane	0.49	J
110-82-7	Cyclohexane	0.50	U
56-23-5	Carbon tetrachloride	0.50	U
71-43-2	Benzene	0.32	J
107-06-2	1,2-Dichloroethane	2.4	
123-91-1	1,4-Dioxane	20	U

0110R

1B - FORM I VOA-2

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Y36L5

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 36184 Mod. Ref No.: SDG No.: Y36K5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: F0259-11A

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: V2J3320.D

Level: (TRACE/LOW/MED) TRACE Date Received: 02/28/2007

% Moisture: not dec. Date Analyzed: 03/03/2007

GC Column: DB-624 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	1.4	
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	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	8.2	
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
179601-23-1	m,p-Xylene	0.50	U
95-47-6	o-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

0266R

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y36K7

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 36184 Mod. Ref No.: SDG No.: Y36K5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: F0259-03A

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: V2J3285.D

Level: (TRACE or LOW/MED) TRACE Date Received: 02/28/2007

% Moisture: not dec. Date Analyzed: 03/01/2007

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

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

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		~~Unknown-01~~	~~2.363~~	~~1.0~~	~~J~~
02		Unknown-02	3.264	0.75	J
03	306-83-2	Ethane, 2,2-dichloro-1,1,1-triflu	3.327	1.9	NJ
	E966796[1]	Total Alkanes	N/A	0	J

[1] EPA-designated Registry Number.

SL, 6/21/07

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y36K9

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 36184 Mod. Ref No.: SDG No.: Y36K5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: F0259-05A

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: V2J3287.D

Level: (TRACE or LOW/MED) TRACE Date Received: 02/28/2007

% Moisture: not dec. Date Analyzed: 03/01/2007

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

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

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.264	1.1	J
02	306-83-2	~~Unknown-02~~ Ethane, 2,2-dichloro-1,1,1-trifluoro-	3.317	1.6	JN
	E966796 [1]	Total Alkanes	N/A	0	J

[1] EPA-designated Registry Number.

SL, 6/21/07

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y36L0

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 36184 Mod. Ref No.: SDG No.: Y36K5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: F0259-06A

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: V2J3478.D

Level: (TRACE or LOW/MED) TRACE Date Received: 02/28/2007

% Moisture: not dec. Date Analyzed: 03/07/2007

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

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

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01	~~420-56-4~~	~~Trimethylsilyl fluoride~~	~~2.356~~	~~1.2~~	~~NJ~~
02		Unknown-01	13.531	1.0	J
	E966796 [1]	Total Alkanes	N/A	0	J

[1] EPA-designated Registry Number.

SL 6/21/07

1J - FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Y36L1

Lab Name: MITKEM CORPORATION Contract: EP-W-05-030

Lab Code: MITKEM Case No.: 36184 Mod. Ref No.: SDG No.: Y36K5

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: F0259-07A

Sample wt/vol: 25.0 (g/mL) ML Lab File ID: V2J3316.D

Level: (TRACE or LOW/MED) TRACE Date Received: 02/28/2007

% Moisture: not dec. Date Analyzed: 03/03/2007

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

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

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01		Unknown-01	3.275	1.0	J
02	306-83-2	~~Unknown-02~~ Ethane, 2,2-dichloro-1,1,1-trifluoro-	3.327	3.5	JN
03	76-12-0	~~Unknown-03~~ Ethane, 1,1,2,2-tetrachloro-1,2-difluoro-	6.982	0.69	JN
	E966796[1]	Total Alkanes	N/A	0	J

[1] EPA-designated Registry Number.

SL, 6/21/07

Table 9. Volatile Deuterated Monitoring Compounds (DMCs) and the Associated Target Compounds

Chloroethane-d_5 (DMC)	1,2-Dichloropropane-d_6 (DMC)	1,2-Dichlorobenzene-d_4 DMC)
Dichlorodifluoromethane Chloromethane Bromomethane Chloroethane Carbon disulfide	Cyclohexane Methylcyclohexane 1,2-Dichloropropane Bromodichloromethane	Chlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2,4-Trichlorobenzene 1,2,3-Trichlorobenzene
1,4-Dioxane-d8 (DMC)	**trans-1,3-Dichloropropene-d4 (DMC)**	**Chloroform-d_1 (DMC)**
1,4-Dioxane	cis-1,3-Dichloropropene trans-1,3-Dichloropropene 1,1,2-Trichloroethane	1,1-Dichloroethane Bromochloromethane Chloroform Dibromochloromethane Bromoform
2-Butanone-d_5 (DMC)	**1,1-Dichloroethene-d_2 (DMC)**	**2-Hexanone-d_5 (DMC)**
Acetone 2-Butanone	trans-1,2-Dichloroethene cis-1,2-Dichloroethene	4-Methyl-2-pentanone 2-Hexanone
Vinyl chloride-d_3 (DMC)	**Benzene-d_6 (DMC)**	**1,1,2,2-Tetrachloroethane-d_2 (DMC)**
Vinyl chloride	Benzene	1,1,2,2,-Tetrachlororethane 1,2-Dibromo-3-chloropropane
1,2-Dichloroethane-d_4 (DMC)	**Toluene-d_8 (DMC)**	
Trichlorofluoromethane 1,1-Dichloroethene 1,1,2-Trichloro-1,2,2-trifluoroethane Methyl acetate Methylene chloride Methyl-tert-butyl ether 1,1,1-Trichloroethane Carbon tetrachloride 1,2-Dibromoethane 1,2-Dichloroethane	Trichloroethene Toluene Tetrachloroethene Ethylbenzene o-Xylene m,p-Xylene Styrene Isopropylbenzene	

USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (USEPA-540-R-04-009, January 2005 Draft Final)